1978

Graduate Academic Catalog (1978-1979)

University of Nebraska at Omaha

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*Note: The page numbers might not be accurate and are for reference only.*
UNIVERSITY OF NEBRASKA AT OMAHA

ACADEMIC CALENDAR

First Semester 1978-79

July 14
Last day for submitting credentials for admission to Graduate Studies for First Semester 78-79.

July 17-Sept. 1
Orientation.

Aug. 1
Last day for submitting credentials for admission to an undergraduate college for the First Semester 78-79.

Aug. 23, 24, 25
Registration (Fieldhouse)
First semester begins at 7:00 a.m. both day and evening classes.

Aug. 28
Change of class schedules.

Aug. 28-Sept. 1
Sept. 1
Change of class schedules.

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

Sept. 4
Vacation; no classes. University closed.

Sept. 5
Vacation; no classes.

Oct. 9
Last day for filing applications for degrees to be conferred in December.

Oct. 20
Due: Mid-term (6th week) report from faculty of grades under C for all undergraduates.

Nov. 10
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. 22-23
Thanksgiving vacation; no classes.

Nov. 23, 24
University closed.

Nov. 27
Classes resume at 7:00 a.m.

Dec. 15
Status report for all prospective graduating students due in Registrar’s Office by 12:00 noon.

Dec. 16-22
Last day for submitting credentials for graduation to Graduate Studies for Second Semester 78-79.

Dec. 22
Last day of classes.

Dec. 23-25
Commencement. University closed.

Dec. 26
Grades due in Registrar’s Office at 12:00 noon.

Dec. 26-Jan. 12
Special course offerings.

Second Semester 1978-79

Jan. 1
Holiday. University closed.

Jan. 2-3
Last day for submitting credentials for admission in undergraduate college for the Second Semester 78-79.

Jan. 10-12
Orientation.

Jan. 15
Registration (Fieldhouse)
Second Semester begins at 7:00 a.m. both day and evening classes.

Jan. 19
Change of class schedules.

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

March 9
Due: Mid-term (6th 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 26-31
Spring vacation; no classes.

April 2
Classes resume 7:00 a.m.

April 6
Last day until 4:00 p.m. to: Drop a course with grade of “W”; Change a course to “audit” credit; Change from “CR/NC” to grade registration in course.

April 16
Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 78-79.

April 17
Honors Day.

April 26
Status report for all prospective graduating students due in Registrar’s Office at 12:00 noon.

May 4
Last day of classes.

May 12
Commencement.

May 14
Last day for filing credentials for admission to Graduate Studies for the First Summer Session 78-79.

May 16
Grades due in Registrar’s Office by 12:00 noon.

May 30
Memorial Day; University closed.
Summer Session 1979

May 31: Last day for submitting credentials for admission to an undergraduate college.
June 6, 7: Change of change schedules.
June 11-July 13: First Summer Session.
June 14: Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1979.
July 4: Last day for filing applications for degrees to be conferred August 18, 1979.
July 6: Change of class schedules.
July 11-July 13: Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1979.
July 14: Holiday; University closed.
July 16-Aug. 17: Last day for filing applications for degrees to be conferred August 18, 1979.
Aug. 1: Status report for all prospective graduating students due in Registrar's Office by 12:00 noon.
Aug. 2: Summer Commencement.
Aug. 18: Last day for submitting credentials for admission to Graduate Studies for the Fall Semester 1979-80.

*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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**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 1949. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College; but in 1973, The Graduate College of the University of Nebraska was established with a University-wide graduate faculty.

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, research and special problems courses, and the supervision of theses or special projects. Thus the Graduate Faculty at UNO promotes the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society. The UNO Graduate Council consists of fifteen members from among the Graduate Faculty and student body. The Council serves in an advisory capacity to the Dean for Graduate Studies and Research and is responsible for planning and policy development, review of courses and programs, and faculty and student affairs.

ACCREDITED STANDING

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

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-hour thesis credit included) as determined by the cognizant Graduate Program Committee.

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

Master of Arts for Teachers of Mathematics

This is a specialized graduate degree designed to provide secondary school mathematics teachers with more depth in mathematics combined with a core of relevant professional courses in education.
The University and its various colleges, divisions, and departments reserve the right to alter policies, practices, and requirements as would benefit the student. The University reserves the right to alter policies, practices, and requirements as would benefit the student through academic standards.

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

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.

The Specialist in Education Degree

This is an advanced degree, involving a minimum of one year of study beyond the Master's degree. It is designed to offer specialized professional education for students who wish to assume positions of responsibility in government and in education.

Studies and the student is expected to assume full responsibility for completing all requirements for the degree. The student is responsible for consulting their major advisers and checking on any changes made.

Efforts will be made to enable students who maintain continuity in pursuing their degrees to follow the policies and requirements in effect at the time of their original enrollments. "Continuity" means that the student is enrolled in both semesters of every academic year or in at least one semester every summer until all requirements for the degree have been satisfied. All students are, however, responsible for consulting their major advisers and checking on any changes made. The Graduate College reserves the right to alter policies as would benefit the student through academic standards.

The University and its various colleges, divisions, and departments reserve the right to alter policies, practices, and requirements as would benefit the student through academic standards.

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

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

Admission and Transcripts

Applications for admission, together with transcripts, must be filed not only by those students desiring to work for a degree, but also by students desiring graduate credit for a renewal of a teacher's certificate, for professional development, and for graduate credit to be transferred to some other school.

Foreign students must provide letters of recommendation, statements of financial independence, and evidence of ability to speak and write the English language. The baccalaureate degree must have been received from an institution accredited by the proper accrediting agencies. New students should correspond with, or go directly to, the Director of Admissions in order to apply for admission. Each new student will be required to file with the Director of Admissions:

(1) An application for graduate study at the University of Nebraska at Omaha.

(2) One (1) official transcript of all undergraduate (and graduate, if any) college work previously taken. Transcripts and all other materials submitted in support of an application become the permanent property of the University and will not be returned. (Graduates of the University of Nebraska at Omaha need not submit transcripts.)

(3) Scores on the GMAT which should accompany the application for admission to the Master of Business Administration program.

NOTE: For consideration for the Fall, Spring, Evening Summer, First Summer or Second Summer term, above credentials must be on file by July 15, December 15, April 15, May 15 or June 15 respectively. Those wishing to be considered for admission to the program in counseling and guidance should see page 20 for separate deadline dates.

Grants and loans will not be made to students who have not taken the GRE prior to application for admission to Graduate Studies but who are judged from other evidence to be capable of graduate work, is assigned provisional status. A final determination of classification will be made after the examination scores have been studied.

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

Students who wish to be admitted to Psychology Department programs are required to submit GRE scores.

The Counseling and Guidance Department requires those wishing to pursue a degree program in counseling to take admission tests in addition to the Graduate Record Examination (see page 30).

Miller Analogies Test

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 Speech Pathology 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.

The Test of English as a Foreign Language

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

CLASSIFICATION OF ADMISSION

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

Unconditional

Unconditional admission to graduate study may be granted to a student who has a Bachelor's degree from a regionally accredited institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least 15 semester hours of undergraduate work that meet specific requirements of the departments in his graduate major and minor. A student from an institution which is not regionally accredited will be admitted on the same basis as a student from an accredited institution. In such cases a student desiring further work may be required, or suitable examinations, or in some cases the completion of a Bachelor's degree from a regionally accredited institution. 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.

the regulations included in this Catalog with respect to admission to Graduate Study, the continuance of graduate study, and the granting of a degree.

MATRICULATION FEE

A matriculation fee of $10 is payable upon initial enrollment in Graduate Studies. This fee is not refundable.

EXAMINATIONS FOR GRADUATE STUDENTS

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

1. The Graduate Record Examination

Graduate students are required to take the general aptitude test of the Graduate Record Examination (GRE) during their first semester of enrollment in Graduate Studies, unless they have taken the GRE prior to application for admission to the University of Nebraska at Omaha.

2. The Miller Analogies Test

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

Students who wish to be admitted to Psychology Department programs are required to submit GRE scores.

The Counseling and Guidance Department requires those wishing to pursue a degree program in counseling to take admission tests in addition to the Graduate Record Examination (see page 30).

Graduate Management Admission Test

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

Miller Analogies Test

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 Speech Pathology 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.

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the regulations included in this Catalog with respect to admission to Graduate Study, the continuance of graduate study, and the granting of a degree.
Admission to Professional Education Programs

Students who plan to work for the Master's degree with a major in one of the fields of education must hold a valid teaching certificate 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.

TEMPORARY ADMISSION

When unexpected circumstances preclude processing applications for Unconditional, Provisional, or Non Degree status, the Dean for Graduate Studies and Research may issue a Temporary Admission. In those cases, the student must have all materials submitted for one of the regular admission categories within eight weeks after the beginning of classes (two weeks in summer sessions). Failure to fulfill this requirement by the deadline will result in disqualification, no credit, and loss of tuition. A student using the Temporary Admission form is registering at his/her own risk because, even if the application and transcripts are received by the deadline, the student may be denied admission after the transcripts have been evaluated. If this should happen, his/her enrollment will be canceled.

REGISTRATION PROCEDURE

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

CERTIFICATION OR PROFESSIONAL GROWTH

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

ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

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

It is the student's responsibility to make application for candidacy for the degree as soon as qualified to do so. The qualifications are:

1. (a) the Graduate Record Examination, the Miller Analogies Test, or the Graduate Management Admission Test must be on file in the Graduate Office;

2. a minimum of thirty-two semester hours of graduate credit must have been completed at the University of Nebraska System; and

3. a grade point average of at least 3.0 or a grade point average of at least 3.5 if the student is transferring from a non-accredited institution but who has not 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 may a student be admitted conditionally with an average of less than 2.5). Specific criteria for provisional admission will be established by the department head and the Dean of Graduate Studies and Research.

Applicants to graduate study who have been graduated from unaccredited colleges may be admitted to graduate study subject to the following conditions:

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

2. 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 may a student be admitted conditionally with an average of less than 2.5). Specific criteria for provisional admission will be established by the department head and the Dean of Graduate Studies and Research.

3. Admissions to graduate study subject to the following conditions:

a. A Change - Graduate Degree Program Form should be used. Under no conditions may Non Degree status be converted to graduate study in any one of these categories.

b. No more than twelve semester hours credit may be earned within the University of Nebraska System toward a graduate degree, and (b) the petition for change is accompanied by a departmental recommendation that the student meet the same admission requirements as other graduate students. They must also make application for admission to graduate study.

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1. (a) the Graduate Record Examination, the Miller Analogies Test, or the Graduate Management Admission Test must be on file in the Graduate Office;

2. a minimum of thirty-two semester hours of graduate credit must have been completed at the University of Nebraska System; and

3. a grade point average of at least 3.0 or a grade point average of at least 3.5 if the student is transferring from a non-accredited institution but who has not 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 may a student be admitted conditionally with an average of less than 2.5). Specific criteria for provisional admission will be established by the department head and the Dean of Graduate Studies and Research.

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2. 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 may a student be admitted conditionally with an average of less than 2.5). Specific criteria for provisional admission will be established by the department head and the Dean of Graduate Studies and Research.

3. Admissions to graduate study subject to the following conditions:

a. A Change - Graduate Degree Program Form should be used. Under no conditions may Non Degree status be converted to graduate study in any one of these categories.

b. No more than twelve semester hours credit may be earned within the University of Nebraska System toward a graduate degree, and (b) the petition for change is accompanied by a departmental recommendation that the student meet the same admission requirements as other graduate students. They must also make application for admission to graduate study.
written one. For those candidates writing a thesis, the final comprehensive examination may be either written or oral at the option of the department concerned. If written, it must be arranged at least one-half of the examination is to be written, and the candidate and one-half to the thesis. 

For 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 adviser may suggest to the student's committee that the candidate be excused from the comprehensive examination covering the minor field of study. It is at the discretion of the minor professor to decide the privileges 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 adviser but falling within the limits established for all comprehensive examinations.

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

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

THESIS

Students electing to pursue the Option I degree program described on page 9 are required to prepare the thesis under the direction of the major adviser supported by a committee. After the thesis has been completed, the student and his major department must include the thesis as a course in his/her schedule during at least one semester. The thesis must be initiated at least eight months before the commencement in which the student plans to receive his degree. The thesis must be a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 16-pound weight. Except for the original, the required number of additional copies may be reproduced by the xerography method or any other comparable process, provided the copies are of adequate quality and are approved by the chairperson of the thesis committee. Either pica or elite type may be used in typing. It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate Office. The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in form with all the copies of all approval sheets. The copies may be maintained for the student in the permanent grade for the student.

Either pica or elite type may be used in typing. The thesis must be typed. A "B" average must be maintained in all graduate courses taken in the student's major field of study as well as in all courses included as a part of the Plan of Study, as approved on the Application for Candidacy. A grade of "C" in each of two courses taken in the student's major field of study, as well as in all courses taken in the Plan of Study, will require action on the part of the student. A grade of "C" in each of three courses taken in the student's Plan of Study will result in automatic dismissal from the degree program unless the student has a "B" average.

The cost of binding three copies (see Fee) must be paid by the candidate at the time of the thesis is submitted to the Graduate Office for filing. 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 student and submitted to the Dean for Graduate Studies and Research for his approval and appointment. This committee shall consist of members from the major department and at least one graduate faculty member from another department who will become the thesis director. If the thesis examination is to be combined with the comprehensive examination (see above), the same committee may be used for both examinations. This committee shall make the final determination of the grades. The committee may also make the final determination of the grades of all graduate courses taken in the student's major field of study.

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 committee and approved thesis to the Graduate Office. The copies must be submitted 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.

SUMMARY OF PROCEDURE FOR GRADUATE STUDENTS

1. File an official transcript of undergraduate credits (and graduate, if any), an application for admission form with the Director of Admissions. You will be notified by mail of your admission to graduate study.
2. Arrange to take the entrance examination (GRE, GMAT or MAT) in the Eppley Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
3. Arrange your class schedule with your adviser and have him sign your registration slip.
4. Register in all courses for which you have been given credit in the entrance examination.
5. Apply for admission to candidacy for the degree in accordance with the procedure described in the Student Handbook.
6. Apply for the degree in the Office of the Registrar during the semester or session in which the degree is to be conferred. (See Calendar for exact date.) NOTE: If you are unable to complete the work required for the degree within the time you applied for the degree, you must reapply for the degree.
7. Inform your thesis adviser or departments that the thesis is to be submitted to the Graduate Office at least two working days before the date of final oral examination.
8. Inform the Graduate Office of the degree in which you plan to graduate at least twelve working days before the date of final oral examination.
9. Enroll in courses as required.
10. Obtain the cap and gowns from the Bookstore.

QUALITY OF WORK

A "B" average must be maintained in all graduate courses taken in the student's major field of study as well as in all courses included as a part of the Plan of Study, as approved on the Application for Candidacy. A grade of "C" in each of two courses taken in the student's major field of study, as well as in all courses taken in the student's Plan of Study, will require action on the part of the student. A grade of "C" in each of three courses taken in the student's Plan of Study will result in automatic dismissal from the degree program unless the student has a "B" average. 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 student's Plan of Study will result in automatic dismissal from the degree program. The student thus dropped must secure the approval of the CODIGANIZING GRADUATE COMMITTEE OR ADVISORY COMMITTEE as the spokesperson for the committee and the approval of the Dean for Graduate Studies and Research in order to take coursework as a non-degree student. The student may not be a candidate for the degree and must be re-enrolled by the Dean for Graduate Studies and Research.

The above quality of work standards also apply to non-degree students.

A student or his adviser may request a course in which he has previously received the grade of C, D, or F, if the student is unable to complete the course in this term in which the student is registered for credit. Incompletes should be given only if the student is in the process of substantially completing the major requirements of the course. Each instructor must judge each situation. The instructor may also indicate by a departmental record, with a copy to the student, how and by when the Incomplete is to be removed, and if he/she is at the University at the time of the removal, supervise the makeup work and assign the grade. In the event that the instructor is not available at the time of the student's application for removal of an Incomplete, the department chairperson shall supervise the removal of the Incomplete and turn in the permanent grade for the student.

NOTE: Two or more incompletes (excluding research projects and thesis) will result in a stop enrollment for all courses; the stop enrollment will stay in effect until the Incompletes are below
POLICY ON CLASS ATTENDANCE

The policy: Classes are conducted on the premise that regular attendance is desirable and expected.

The individual instructor has the responsibility for managing student attendance and for communicating at the beginning of each semester those class attendance policies which prevail in that classroom.

If a student is absent or anticipates an absence, the student's primary responsibility is directly to the instructor, and the student should consult with him accordingly. A student who misses a class is nonetheless responsible for information and assignments communicated during that class session. If a student is absent or anticipates an absence of more than one week in the University's academic work, the student is responsible to notify the instructors and be prepared to document the reason for extended absences.

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

Appeals procedure: "Should there be cause on the part of individuals involved to feel that the reason for their 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.), involving the student submitting the justification for the appeal in writing to the department. If the initial appeal decision is unsatisfactory, then the appeal process moves with the student submitting a written statement to the student's advisor, who has the discretion to refer the appeal to the appropriate academic dean indicating the specific nature of the appeal to be considered and requesting the consideration of the appropriate college committee designated for hearing such grievances.

The necessary committee of the college will be called to hear the appeal, examine the grounds for the appeal, and then transmit the appeal committee's decision to the student. If a student wishes to appeal further the decision of an academic dean, a written appeal may be submitted to the University Committee on Academic Standards, which serves an appellate function in hearing appeals of students who feel aggrieved on the basis of decisions rendered by the academic deans.

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

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS

The following policy was approved by the University of Nebraska Graduate College's Executive Graduate Council on April 30, 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 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.

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 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.

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 six-week summer session irrespective of whether or not the student holds a graduate assistantship.

Fees for students carrying less than twelve hours may obtain a regular students activity card by paying the full-time fee of $36.00.
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 consent that the student was earning a grade of "B" or higher as well as the approval of the Dean for Graduate Studies and Research.

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

A student wishing to audit a course must secure the permission of the instructor and 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 work.

Courses for Graduate Credit

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabi on file in the Graduate Office. Transfer for graduate credit from all schools in the University system will be accepted to the extent approved by the student's committee with at least one-half of the minimum degree requirements to be taken at the University of Nebraska at Omaha, UNO, or UNO campus, whichever is to grant the degree. Only grades of "B" or better may be transferred from other schools in the University System to apply toward degree requirements here.

TRANSFER OF CREDIT

Students who have completed graduate courses at other approved graduate schools (including extension schools) may request the permission to transfer as many as six semester hours of credit on a thirty-hour program, or nine semester hours of credit on a thirty-six-hour program, provided the courses are pertinent to the student's graduate program.

The total hours of transfer credit may not exceed the number stated except by the student's major adviser who forwards the petition with his recommendation to the Dean for Graduate Studies and Research for review and consideration. No transfer of credit can be made until the student has been granted approval.

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

Residence Requirements

A minimum of thirty semester credit hours in residence (in the case of the Master of Science, Master of Public Administration, and the Master of Business Administration degrees), is required for granting of the Master's degree, except as provision is made for correspondence work. No transferred credit will be allowed for correspondence work. Note: The Master of Social Work degree requires a minimum of forty-two semester credit hours.

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, supplier, food, or special services not listed in this schedule.

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves of the delayed billing option must familiarize themselves with the due dates, as published. Failure to receive the monthly 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 Aid Officer in the Eppley Building. Application for financial aid should be made at the earliest possible time.

Transfer or graduate credit from all schools in the University system will be accepted to the extent approved by the student's committee with at least one-half of the minimum degree requirements to be taken at the University of Nebraska at Omaha, UNO, or UNO campus, whichever is to grant the degree. Only grades of "B" or better may be transferred from other schools in the University System to apply toward degree requirements here.

WITHDRAWAL FROM THE UNIVERSITY

To officially withdraw from all classes and thereby from the University, and to receive any refund due as well as appropriate posting of academic standing for the grading period in question, a student must submit a written request to the office of the Dean for Graduate Studies and Research or his designee prior to submitting the withdrawal form to the Registrar's Office. Any refund of fees will be based on the University catalog Graduate Catalog, class schedule and Student Handbook, 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 work required for a master's degree must be completed within six consecutive calendar years. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate Office for permission to take a special examination, or the current semester's final examinations in courses for which graduate credit has been recorded and is obsolete. A report of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. In the case of Doctor of Ed. degree, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Dean for Graduate Studies and Research.

All requirements for an Ed.D. degree, regardless of major, must be completed during a six-year period beginning with the date of entrance to the first course used in the plan of study following the completion of the Master's degree.

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

Resident of Nebraska Non-resident

$10.00 $25.00

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

Per Semester: Resident of Nebraska (use residency status) Non-resident

$21.00 $57.00

Tuition:

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

One semester credit hour: $55.00

Two semester credit hours: $75.00

Special Instructional Fees:
UNIVERSITY OF NEBRASKA AT OMAHA

Three semester credit hours .................................................. $95.00
Four semester credit hours ........................................................ $115.00
Conference, non-credit, and off-campus contract course fees are determined for each offering based upon the costs factor and peculiar circumstances involved.

University Program and Facilities Fee (UPFF)

Full-time students (12 credit hours or more) per semester ................................................................. $36.00
Part-time students (less than 12 hours) per semester ................................................................................... $18.00
This fee is assessed to every student each semester.
The UPFF receipts are divided into two separate funds. One portion is designated for student activities and is distributed according to an annual budget developed by the Activities Commission. The Allocation Committee of the student, faculty and staff recommends disbursements of this fund to the Chancellor and the Senate. The second portion of the UPFF is designated for services, staff salaries, maintenance of facilities and related items. The full-time fee of $36.00 also entitles the student to a regular student activities card by paying the full-time fee of $36.00.

Special Services Fees:

Continuing Engineering Studies — Professional Studies — Development Degree Program

Initial application .................................................................. $25.00
Attendance of 300 credit units (additional) ....................... $5.00 per 100
Attendance of 600 credit units (additional) ....................... $5.00 per 100
Attendance of 900 credit units (additional) ....................... $5.00 per 100
Attendance of 1200 credit units (additional) ..................... $5.00 per 100
Transcripts of Academic Record per copy ........................ $5.00
Thesis Binding per copy ......................................................... $5.00
Cap and Gown Rental (to be arranged through the Bookstore) $3.00
Graduation Fee .................................................................... $3.00
Degree in Absentia (payable in addition to graduation fee) .... $2.00

Vacancy Bulletin Fee & Postage Cost

3rd class mailing ................................................................. $1.00
1st class mailing ............................................................... $1.75

Placement Fee:

Preparation of credentials ....................................................... $100.00
No credentials will be sent unless the registration fee and the credential fee has been paid.

Late Fees and Penalties:

Late Registration (day or evening classes) ....................... $5.00
Late Registration (each course) ........................................... $5.00
Late Payment of Tuition Billing ............................. $10.00
Reinstatement of Canceled Registration ......................... $50.00
Replacement of ID Activity Card ..................................... $3.00

Deposits:

Key (per key with authorization) refundable ......................... $1.00
Lockers and Travel Deposit-Refundable ......................... $5.00
Required to students taking HPES service classes.
Also required of Faculty, Staff and students using Field House Facilities.
Chemistry Laboratory Deposit-Refundable ...................... $10.00

Test Fees:

Credit by Examination—per course (Departmental) ........... $25.00
American College Testing (ACT), National .................... $7.50
American College Testing (ACT), Regional .................... $11.50
College Level Examination Program (CLEP) ................. $20.00

Refund Schedule:

Refunds are computed from the date application is received by the Registrar, from the not date of withdrawal from classes. Refunds are issued by the Registrar and given to students who are not satisfied with a course or any other loan granted by the University, who withdraw before the account is paid in full and are relieved of the balance due. Refunds will first be applied to unpaid balances, and any remaining balance must be paid.

No credits will be transferred for withdrawals that occur after the beginning of the semester as stated in the University’s calendar, not from the beginning of students' individual class schedules.

Period of Drop/Withdrawal

Before first official day of semester 100% of the amount
First week of classes 75% of the amount
Second week of classes 50% of the amount
Third week of classes 25% of the amount
Fourth week of classes 0% of the amount

Refund

Chargable

Percent

Summer Sessions (5 and 6 Week)

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

Summer Evening and Special Contract (7 and 8 Week)

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

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

Withdrawal before classes start 100% of the amount
Withdrawal after first week elapsed 50% of the amount
Withdrawal before 2 weeks elapsed 20% of the amount
Withdrawal after 2 weeks elapsed 0% of the amount

(See Chart)

Resident Students

A student's right to classification as a resident for purposes of registration in a state educational institution must be determined under the provisions of Nebraska Revised statutes of 1943, Sec. 83-550 (S.R. Supp., 1965). Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar's Office.

FINANCIAL AID FOR GRADUATE STUDENTS

GRADUATE ASSISTANTS

Available for qualified students who are enrolled in a graduate degree program at graduate assistantship positions. The assistantship is designed to provide unequaled opportunities for supervised educational experiences at the graduate level in conjunction with the degree program. The stipends range upward from $3225.00. 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 eligibility and the advisor recommends the abnormal high work load to the Dean for Graduate Studies and Research for his approval.

Graduate Assistantships will be expected to carry nine credits (at least six of which must be graduate).

Graduate Assistantships for interns who must earn money for self-support may be required to reduce correspondingly the number of hours for which they may register. Such adjustments shall be subject to the approval of the Dean for Graduate Studies and Research. Applications and their supporting credentials must be received on or before March 1st. 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 only 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 major professor and the Dean of Graduate Studies agree, the student may spend a semester at another university such as by making appropriate arrangements at UNO. Nebraska resident pays resident tuition. The Graduate Office has further information.

SCHOLARSHIPS

Phi Delta Gamma, a national fraternity for women, offers two annual scholarships of $100 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 Beyer-Phi Delta Gamma Scholarship. Applications and details concerning these scholarships may be obtained from the Dean for Graduate Studies and Research Room 250, Administration Building. Applications should be in the Graduate Office by March 1st of each year.

LOANS

Graduate Students are eligible to apply for National Direct Student Loans (NSDL) which are based upon financial need. Qualified 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, Eppeley Building.

WORK

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, Eppeley Building.

ORGANIZATIONS

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

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

Beta Gamma Sigma is a national honorary society for students in Business Administration. Membership is by invitation.

Psi Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.

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

ADMINISTRATION FOR GRADUATE STUDIES

GRADUATE FACULTY

The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses offered in graduate studies. The Dean for Graduate Studies and Research serves as Chairperson of the Graduate Faculty at UNO and of the UNO Graduate Council. Information on all graduate programs, including qualifications of graduate faculty members, is available in the Graduate Office.

GRADUATE FACULTY MEMBERS

RESPONSIBILITIES

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

CRITERIA

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

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

GRADUATE FACULTY FELLOWS

RESPONSIBILITIES

Graduate Faculty Fellows may teach graduate courses, supervise and serve on supervisory committees for students working toward post-baccalaureate degrees. They also 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 reasonable consistent standards for faculty members eligible for appointment to supervise doctoral students:

1. The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
2. The nominee must have published research and scholarly work of quality, or have demonstrated comparable, creative achievement.
   a. In disciplines where publication is the normal outlet for scholarly work or research, the nominator must provide evidence of the nominee’s significant, refereed publications appearing under the imprint of recognized scholarly publishing houses or journals. Publication must be cited and a statement of the judgment of an editorial board included.
   b. Publication based on the nominee’s terminal degree alone is not sufficient, although publication of the dissertation or parts of it is significant if the nominator indicates the manner in which the published version represents a substantial amount of scholarly work in addition to that required for dissertation.
   c. In disciplines such as art, architecture, theatre, or music where publication is not the normal or singular end product, the nominator must provide evidence of creative work accomplished by the nominee. This creative work must bear evidence of acceptance by peers within the discipline.
3. The nominator must indicate current involvement of the nominee in research and/or creative work.
4. The nominator may provide supporting evidence for the nominee such as published textbooks related to graduate education, published instructional materials, published professional reports, or evidence of funded research and development projects.
5. The nominator may provide evidence of the nominee’s teaching effectiveness in working with graduate students. This evidence may consist of peer and student evaluations or reports of student achievement subsequent to the receipt of advanced degrees.
GRADUATE 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 offers. Information about the structure of the Council, functions of the committees, and names of the Graduate Faculty members who are currently serving on the Council is available in the Graduate Office.

FACULTY SENATE RESEARCH COMMITTEE

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 funding sources; preparation of research proposals; preparation of grant budgets; preparation of grant financial reports; excess 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 for appointment by the Dean for Graduate Studies and Research.

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

Each new graduate student, in conference with the 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 must be a member of the Graduate Faculty. In addition to at least three voting members, faculty members in the university system may be appointed to serve ex officio (without vote) as consultants (or to gain experiences as special representatives of the Dean for Graduate Studies and Research). The Graduate Program Committees at UNO represent both the Graduate Faculty and the student's field of study. The word program denotes all kinds of academic requirements which must be satisfied by the graduate student in order to qualify for a particular degree (or, in the case of a non-degree student — the requirements of graduate-level certification or recognized stages of professional development). Every degree candidate's plan of study must be designed to satisfy the requirements of a program which has been approved by the Graduate Faculty. Both major and minor requirements, together with quality-of-work standards, are included under programs; also included are transfer credits and those electives which are not major or minor courses.

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

CENTER FOR URBAN EDUCATION

The Center for Urban Education is a practical, problem-oriented off-campus laboratory which is not housed in any of the individual departments or colleges but reports to the Vice-Chancellor for Academic Affairs. The Center has an advisory council consisting of several deans and public citizens. The Center focuses upon problems of low-income areas (both urban and rural) but does not offer separate graduate degree programs. However, there will be provided appropriate opportunities for graduate students from several disciplines (e.g., Sociology, Psychology, Urban Studies, Business Administration, Home Economics, Social Work, Counseling, Educational Administration, and Urban
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.

Master of Arts

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

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

The candidate must pass a final oral examination 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 faculty committee.

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

The candidate must pass a final written comprehensive examination.

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:

- College Algebra: Math 131
- Economics: Econ 201 and Econ 202 or Econ 800J
- Accounting: Acc 201 and Acc 202 or BA 811J
- Computers in Business: GB 231
- Quantitative Methods: IS 212
<table>
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<tr>
<th>Course Options</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Core Courses</td>
<td>18</td>
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<tr>
<td>BA 800V</td>
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<td>BA 801V</td>
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<td>BA 850V</td>
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<tr>
<td>Option Courses</td>
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<tr>
<td>Option #1 - Business Administration</td>
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<td>BA 830V</td>
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<td>BA 850V</td>
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<td>Option #2 - Marketing</td>
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<td>BA 840V</td>
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<td>BA 841V</td>
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<td>Option #3 - Decision Sciences</td>
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<td>BA 833V</td>
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<td>Option #4 - Real Estate</td>
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<td>BA 860</td>
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<td>Option #6 - Economics</td>
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<td>BA 820V</td>
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The six hours of electives must be in one or more areas different than the area of concentration and may be taken in an area outside the College of Business Administration, subject to advance approval by the Director of Graduate Studies. A thesis is required in one option (Real Estate) and may be elected in others. No comprehensive examinations are required. Instead, the integrative course BA 880V may be successfully completed with a grade of A or B in the student’s last nine hours of the degree program.

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

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

Upon admission by the Graduate College, UN-L, student records will be maintained on the campus at which the major portion of the graduate courses will be taken. Normally the faculty advisor will also be on that campus.

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

Admission to Candidacy

Options for the Masters Degree

Graduate Work.

Graduate work in Civil Engineering is governed by the general requirements of the Graduate College. Selection of the option and program are subject to approval of the students' advisor and the Dean of the Graduate College.

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

COMMUNICATION

Master of Arts

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

Students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Program 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 310V, 311V, 312V, and a theory or research seminar, above the 2000 level, which may be in the student's area of concentration.

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

Thesis option: Successful completion of 24 semester hours of course work, at least 12 hours of which must be in courses open only to graduate students; 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(s) 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 project or creative work, based on a proposal approved by the student's committee, may be formulated in writing, video, or film; plus a 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 academic calendar of the year. On a program is begun, students are expected to pursue their program on a continuous enrollment basis. Full-time study is encouraged, however, provision is made for those unable to devote more than part-time to their program. All students are required to follow a se-

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<thead>
<tr>
<th>Master of Science</th>
<th>Specialization in Agency Counseling</th>
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<tbody>
<tr>
<td>I. Foundation Course</td>
<td>Specialization Course</td>
</tr>
<tr>
<td>FED 300V, Introduction to Research</td>
<td>2-3 hours</td>
</tr>
<tr>
<td>II. Selected Cognate Courses</td>
<td>6-15 hours</td>
</tr>
<tr>
<td>These courses are selected in accordance with student's particular area of interest.</td>
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</tr>
</tbody>
</table>

III. Counseling and Guidance Courses

| 22-28 hours |
| COLN 490M, Principles of Counseling and Guidance |
| COLN 490V, Introduction to Counseling Theories |
| COLN 492V, Occupational and Educational Information |
| COLN 493V, Organizational and Administration of Guidance Services |
| COLN 494V, Counseling Practices |
| COLN 495V, Counseling Techniques |

Specialization in School Counseling - Secondary Level

| 3 hours |
| FED 300V, Introduction to Research |
| II. Selected Cognate Courses | 6-15 hours |
| These courses are selected from offerings of the Psychology, Sociology, Secondary Education and Special Education departments. |

III. Counseling and Guidance Courses

| 22-28 hours |
| COLN 490M, Principles of Counseling and Guidance |
| COLN 490V, Introduction to Counseling Theories |
| COLN 492V, Organizational and Administration of Guidance Services |
| COLN 493V, Counseling Practices |
| COLN 495V, Counseling Techniques |

Specialization in School Counseling - Elementary Level

| 6 hours |
| FED 300V, Introduction to Research |

*Teaching certificate required for initial licensure to serve as secondary or elementary school counselors in Nebraska or Iowa.
PSYCH 811V, Advanced Educational Psychology

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

III. Counseling and Guidance Courses
COUN 890M, Principles of Guidance and Counseling
COUN 820V, Introduction to Counseling Theory
COUN 821V, Child Assessment in Elementary School Guidance
COUN 822V, Counseling Elementary School Children
COUN 823V, Appraisal Techniques in Counseling
COUN 824V, Counseling Practices
COUN 825V, Counseling Practicum
COUN 826V, Guidance Internship
COUN 827V, Group Techniques in Guidance

Specialization in College Student Personnel Services
I. Foundation Course
PED 801V, Introduction to Research

II. Selected Cognate Courses
COUN 831V, Child Development
COUN 890M, Principles of Guidance and Counseling
COUN 832V, Elementary School Guidance
PSYCH 851V, Advanced Educational Psychology

III. Gerontology Courses
COUN 801V, Criminal Justice Planning and Innovation
COUN 802V, Seminar in Administration of Justice
COUN 803V, Comparative Legal Ethics
COUN 804V, Seminar in Community Services and Treatment
COUN 805V, Seminar in Criminal Justice Administration
COUN 806V, Seminar in Correctional Management
COUN 807V, Theoretical Criminology
COUN 808V, Seminar in the Process of the Criminal Justice System
COUN 809V, Seminar in Delinquency Prevention, Control, and Correction
COUN 810V, Special Problems in Criminal Justice

Elective Courses
(in student selects four (4) courses with advisor's approval)

I. Criminal Justice
TO EARN THE MAJOR OF ARTS DEGREE IN CRIMINAL JUSTICE, THE STUDENT MUST SATISFY
ALL REQUIREMENTS AT THE UNIVERSITY OF NEBRASKA AT OMAHA.

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 senior 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 graduate 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 seeking an interdepartmental 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
802V, Seminar in Criminal Justice
803V, Criminal Justice Planning and Innovation
804V, Seminar in Social Services and Treatment
805V, Seminar in Criminal Justice Administration
806V, Seminar in Correctional Management
807V, Theoretical Criminology
808V, Seminar in the Process of the Criminal Justice System
809V, Seminar in Delinquency Prevention, Control, and Correction
810V, Special Problems in Criminal Justice

Elective Courses
(in student selects four (4) courses with advisor's approval)

Master of Science
The Master of Science degree is a 36 credit-hour non-thesis program designed to emphasize research, planning, and administration, while simultaneously providing fundamental course work. This degree program offers the student a choice of either the standard Master of Science curriculum or a Master of Science with an option in Public Administration. The Public Administration option is especially recommended for administrators or future administrators within the Criminal Justice System.

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

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
803V, Seminar in Criminal Justice Theory and Methodology

Elective Courses
(in student selects four (4) courses with advisor's approval)

I. Criminal Justice

Master of Science
Public Administration Option

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

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
803V, Seminar in Criminal Justice Theory and Methodology
804V, Seminar in Community Services and Treatment
805V, Seminar in Criminal Justice Administration
806V, Seminar in Correctional Management
807V, Theoretical Criminology
808V, Seminar in the Process of the Criminal Justice System
809V, Seminar in Delinquency Prevention, Control, and Correction
810V, Special Problems in Criminal Justice

Elective Courses
(in student selects four (4) courses with advisor's approval)

801V, Police Administration
802V, Seminar in Social Services and Treatment
803V, Seminar in Community Services and Treatment
804V, Seminar in Criminal Justice Administration
805V, Seminar in Correctional Management
806V, Seminar in the Process of the Criminal Justice System
807V, Seminar in Delinquency Prevention, Control, and Correction
810V, Special Problems in Criminal Justice

Satisfactory completion of the comprehensive examination is also required.
Master of Arts

An applicant for admission to the program for the Master of Arts degree must have the equivalent of 15 undergraduate semester hours in Economics. At least 15 hours of the required work, including the thesis, must be at the 800- or 820-level. The thesis must be approved by the student's committee and must be completed within one year after the end of the student's coursework. The student must also satisfy all requirements established in the various departments offering graduate studies, except that the thesis is not a requirement for this degree.

Degree Requirements:
- A minimum of 30 semester hours, including the thesis, must be at the 800- or 820-level. The thesis must be approved by the student's committee and must be completed within one year after the end of the student's coursework.
- The thesis must be satisfactorily completed Economics 820V, 822V, and 829V, and any rejected thesis must be resubmitted for approval within 30 semester hours of the previous submission.

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 before the committee.

Option II: Successful completion of 23 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 Science degree must have the equivalent of 15 undergraduate semester hours in Economics. At least 15 hours of the required work, including the thesis, must be at the 800- or 820-level. The thesis must be approved by the student's committee and must be completed within one year after the end of the student's coursework. The student must also satisfy all requirements established in the various departments offering graduate studies, except that the thesis is not a requirement for this degree.

Degree Requirements:
- A minimum of 30 semester hours, including the thesis, must be at the 800- or 820-level. The thesis must be approved by the student's committee and must be completed within one year after the end of the student's coursework.
- The thesis must be satisfactorily completed Economics 820V, 822V, and 829V, and any rejected thesis must be resubmitted for approval within 30 semester hours of the previous submission.

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 before the committee.

Option II: Successful completion of 23 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.

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 must have a bachelor's degree from an accredited institution, and be certified at either the elementary or secondary level. The degree program of at least 36 semester hours must include balanced coverage of the major areas in 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 with a minimum of 36 semester hours.

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.

Graduation Requirements

For a student to graduate from the program with the Master's degree in Urban Education, he/she must fulfill the following requirements:
- Complete a minimum of 36 graduate hours. (Eighteen required, six to nine from the Primary Electives and a minimum of nine from the Secondary Electives List.)
- Submit a completed application form for graduate study with the names of three references and a transcript of all previous college work.
- Complete an interview (where possible) with the Urban Education Committee.

Enrollment Requirements

Before students can be advanced to candidacy, they must fulfill the following requirements:
- Complete the Graduate Record Examination — verbal and quantitative. A low score may require supplemental work.
- Complete nine graduate hours at UNO (six from the Required Course List, one of which must be FED 804V) with grades of B or better.
- Complete an interview (where possible) with the Urban Education Committee.

EDUCATIONAL FOUNDATIONS

Graduate courses offered by the Department of Educational Foundations serve two purposes. First, courses are offered to fulfill requirements established in the various departments offering graduate degrees in education. Second, courses are offered as part of the Master of Science Degree in Education — Urban Education Major.

Master in Science in Education

The Master of Science program in Urban Education is designed for graduate students who are interested in exploring the contemporary issues confronting urban educational institutions. The range and depth of the interdisciplinary coursework offered in this program provide a balanced coverage of the major areas in educational administration and supervision.

To advance to candidacy, students must fulfill the following requirements:
- Submit completed applications forms for graduate studies together with the names of three references and a transcript of all previous college work.
- Complete a minimum of three graduate hours in the required course offerings.
- Complete an interview (where possible) with the Urban Education Committee.

Graduation Requirements

For a student to graduate from the program with the Master's degree in Urban Education, he/she must fulfill the following requirements:
- Complete a minimum of 36 graduate hours. (Eighteen required, six to nine from the Primary Electives and a minimum of nine from the Secondary Electives List.)
- Submit a completed application form for graduate study with the names of three references and a transcript of all previous college work.
- Complete an interview (where possible) with the Urban Education Committee.

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 to be selected from the Primary Electives and a minimum of nine hours to be selected from the Secondary Electives.

Required (18 Hours)

FED 804V, Introduction to Research ........................................ 3 Hours
FED 805V, Seminar in Urban Education ......................... 3 Hours
FED 806V, Urban School .............................................. 3 Hours
FED 809V, Seminar in Urban Education ......................... 3 Hours
FED 820V, Practicum or Special Projects ....................... 3 Hours
**Programs for the Master of Arts degree with a major in elementary education will be determined by the major advisor upon request.**

### ELEMENTARY AND EARLY CHILDHOOD EDUCATION

**Master of Arts**

**Admission to the Program**

1. An applicant must hold a valid elementary school teaching certificate.
2. Unconditional admission is granted if and when:
   a. Undergraduate major average is 3.0 or above.
   b. Graduate Record Examinations are completed with acceptable scores.
   c. Any undergraduate deficiencies are made up.
3. Graduate Record Examinations (Verbal, Quantitative, and Advanced Education) must be taken after 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. For all candidates for the Master of Arts degree, the student is advised by the Department and the Graduate Office.
2. A written comprehensive examination is required during the semester in which a student completes the program. Applications for the examination must be made to the Director of Graduate Studies by each individual student's program.

**Degree Programs**

1. **Required Courses**
   - FED 801V, Introduction to Research
   - FED 805V, History and Philosophy of Education
   - EED 805V, Diagnostic and Corrective Instruction
   - EED 840V, Innovations and Trends in Elementary Education
   - EED 844V, Introduction to Curriculum Planning — Elementary
   - EED 845V, Seminar in Elementary Education
   - EED 846V, Administration and Supervision in Elementary Schools

2. **Area of Concentration**
   - Each student will include in his/her Program of Study, an area of concentration in a special field in which the student's department is interested. All concentrations will be determined by the student's department.

3. **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 their schedule.<p></p>

### ENGLISH

**Master of Arts**

To be admitted to graduate study in English in a Master of Arts degree, a student must have completed at least eighteen hours in undergraduate English courses above the freshman level with an average grade of "B". All candidates for a Master of Arts degree in English are required to take English 801V of the following plan of study:

**Plan A**: Successful completion of 24 credit hours in course work, including at least 12 hours in the master's area of concentration, which must include the following courses:

- English 801V
- English 805V
- English 840V
- English 844V
- English 845V
- English 846V

**Plan B**: Successful completion of 36 credit hours in course work, including at least 18 hours in the master's area of concentration.
GEORGE WASHINGTON UNIVERSITY

Graduate study in physical geography. Each degree has two options: Option I may be chosen by students who wish to do major work in physical geography. This option requires a minimum of 36 semester hours in geography courses numbered 800M or 800V, or selected cognate courses in other departments. Undergraduate work from the four natural science areas. Any deficiency in the prerequisites must be made up but may not be counted as graduate credit. Each student practical one-on-one experience with the aged in a service program or agency designed to deliver services to the elderly. Practicum students must register for GERO 894M-Practicum and participate in periodic seminars with the Practicum Supervisor of the Gerontology Program.

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

GERO 811M-Graduate Seminar in Gerontology (3 semester hours)
GERO 816M-Research Methods in Gerontology (3 semester hours)
GERO 846M-Aging, Health, and Behavior (3 semester hours)
GERO 847M-Programs and Services for the Aging (3 semester hours)
GERO 894M-Practicum (0-6 semester hours)

UNIVERSITY OF NEBRASKA AT OMAHA

The Master of Arts Degree: Option II may be chosen upon the advice and with the approval of the major adviser. This option requires a minimum of 36 semester hours in foreign language courses numbered 106V or 107V and a course in a second language as certified by the Department of Foreign Languages. Each student wishing to work toward the Certificate in Gerontology must make application and be accepted into the Gerontology Program. Those working toward a graduate degree must also be accepted into the degree program of their major department.

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

2. Coursework requirements consist of a minimum of 15 semester hours in Gerontology. The other 12 hours (usually four graduate level courses) in Gerontology are selected by the student in consultation with the Academic Coordinator of the Gerontology Program. In this manner, goals and interests are realized.

3. A one semester full-time practicum or its equivalent is also required. The goal of this is to give the student practical experience with the aged in a service program or agency designed to deliver services to the elderly. The student receives academic credit for this service. The practicum must be registered for GERO 894M-Practicum.

4. Students who do not meet these requirements must make up the deficiency during their first year of graduate study. Each program of study is designed for students who wish to do major work in physical geography. Each degree has two options:

Option I: Required courses are:

a. Eng. 854M, Introduction to Linguistics
b. Eng. 878M, Structure of Language
d. Eng. 896M, Seminar: Linguistics (Teaching English as a Second Language)

2. Demonstrated oral and written competence in a second language as certified by the Department of Foreign Languages.

The Certificate in Course is 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 English as a second language in Nebraska or any other state must meet additional requirements established by the 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 (recommended by their respective graduate faculties and approved by the Dean for Graduate Studies and Research) of biology, chemistry, geology, physics, geophysics, and physics. 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 providing the candidate's curriculum and thesis in accordance with the policies established by the Graduate Science Committee and the Graduate Council.

Preparation: An application for graduate admission to the graduate program must be presented. In addition, eight semester hours of credit must be presented in each of the four natural science areas. The Certificate in Gerontology will be awarded to those students meeting the above requirements.

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

GEOGEOGRAPHY AND GEOLOGY

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

The Master of Arts with a major in geography is intended for those preparing themselves in areas other than physical geography, whereas the Master of Science with a major in geography is intended for students electing 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 and 900 hours for a combined total of at least 36 semester hours. The student planning to do research in physical geography must present as a prerequisite a minimum of 15 undergraduate semester hours of geography including Physical (106 or 107) and Cartography (335) or the equivalent. Those students who don't meet these requirements must make up the deficiency during their first year of graduate study. Individuals planning to do major work in physical geography will select one of the following options:

1. 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 one of the following options:

a. Eng. 854M, Introduction to Linguistics
b. Eng. 878M, Structure of Language
d. Eng. 896M, Seminar: Linguistics (Teaching English as a Second Language)

who do not meet these requirements must make up the deficiency during their first year of graduate study.

INDIVIDUAL PROFESSIONAL PROGRAMS

Individual programs of study will be designed for incoming graduate students on the basis of GRE scores and personal interviews. The student's major adviser will determine the exact courses leading to the degree. Each student practical one-on-one experience with the aged in a service program or agency designed to deliver services to the elderly. Practicum students must register for GERO 894M-Practicum and participate in periodic seminars with the Practicum Supervisor of the Gerontology Program.

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

GERO 811M-Graduate Seminar in Gerontology (3 semester hours) - required of all students at the time of application for the Gerontology Program
GERO 816M-Research Methods in Gerontology (3 semester hours)
GERO 846M-Aging, Health, and Behavior (3 semester hours)
GERO 847M-Programs and Services for the Aging (3 semester hours)
GERO 894M-Practicum (0-6 semester hours)

HEALTH, PHYSICAL EDUCATION, AND RECREATION

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

Major 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 one of the following options:

a. Eng. 854M, Introduction to Linguistics
b. Eng. 878M, Structure of Language
d. Eng. 896M, Seminar: Linguistics (Teaching English as a Second Language)

who do not meet these requirements must make up the deficiency during their first year of graduate study.

INDIVIDUAL PROFESSIONAL PROGRAMS

Individual programs of study will be designed for incoming graduate students on the basis of GRE scores and personal interviews. The student's major adviser will determine the exact courses leading to the degree.

Admission Requirements

An applicant for admission to either the Master of Arts or the Master of Science degree program in geography must present a preponderance of a minimum of 15 undergraduate semester hours of geography including Physical (106 or 107 and 117) and Cartography (335) or the equivalent. Those students who don't meet these requirements must make up the deficiency during their first year of graduate study.

Individual programs of study will be designed for incoming graduate students on the basis of GRE scores and personal interviews. The student's major adviser will determine the exact courses leading to the degree.
To be admitted to this degree program, students must possess an undergraduate major or minor in physical education or related field. Students pursuing a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu

### 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 a graduate degree in the major with a major in physical education or related field. Students pursu
Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. An applicant is usually expected to have completed an adequate mathematics sequence, including calculus, and to have an overall average of B or better during the last two undergraduate years. Some departments require that a minimum of 24 credit hours must be completed in courses other than mathematics.

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

- Earn a total of 36 credit hours, at least 24 of which must be in mathematics.
- Choose mathematics courses which carry a number of 800M or above and at least 18 credit hours which carry a number of 800 or above.
- Include mathematics courses 811M-812M, 823M-824M, and 827M in his program if he has not had the equivalent as an undergraduate.
- Maintain a "B" average in all of his work with no grade lower than a "C," and no more than two grades of "C."
Master of Science

To complete the M.S. with a major in industrial/organizational psychology or the M.S. with a major in educational psychology, the student must successfully pass a written comprehensive examination, or 24 hours in psychology plus 12 hours in a related minor field. The M.S. degree has the same program requirement as the M.A., and all required courses are the same in both degree programs, as well as the requirement of Psychology 800V.

Additional required course work may be designated by the department. This will ordinarily include up to 2 hours of practicum credit. Final determination is a student’s plan of study always resides with the advisor and the department. To meet the graduate study requirements a student must take at least half of the work in courses which are open only to graduate students.

Specialist in Education

The Ed.S. degree requires completion of sixty-six graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as for those leading to certification as a School Psychologist with one additional degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

Doctor of Philosophy

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and in developmental psychology. Students may be considered for admission to a doctoral program if they have completed or are doing excellent work toward their Masters degree which includes a demonstration of research skills. There is no generally specified language or research skill requirement, but each student is expected to demonstrate proficiency in languages, research skills, or knowledge in collateral research areas appropriate for the student’s major and minor degrees determined by the department 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.

1. Admission to the UNL Graduate College by the evaluation of official transcripts presented in person or by mail prior to registration.
2. Registration after consultation with advisers in major and minor departments.
3. Appointment by the UNL Graduate Office of a supervisory committee on the recommendation of the departmental committee.
4. Submission to the UNL Graduate Office of a program approved by the supervisory committee setting forth the complete plan of study for the degree prior to completion of more than half of the minimum requirements.
5. Satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor related fields when the student’s program of courses is substantially completed.
6. Submission to the UNL Graduate Office of a report from the supervisory committee on the specific research for the dissertation and progress to date.
7. Admission to candidacy for the Ph.D. degree by filing a report in the Graduate Office of the passing of the comprehensive examinations and the completion of language requirements (at least seven months before the final oral examination). The term of candidacy is limited to three years.
8. Filing of an application for the degree at the Registration and Records Office, Information Window, 208 Administration Building at UNL. This application is effective during the current term only. It must be renewed at the appropriate time if requirements for graduation are not completed until during a later term.
9. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks prior to the final examination.
10. Submission to the Graduate Office of two copies of the approved dissertation, three copies of the approved abstract, and the application for the final oral examination at least three weeks prior to the final oral examination.
11. Passing of any required final oral examination.
12. Depositing of two copies of the dissertation in proper form, on copy of the abstract, and a signed agreement for microfilming the dissertation and publication of the abstract, with the UNL. Director of University Libraries. Delivery of the certificate of deposit, signed by members of the supervisory committee. In addition, one bound copy of the dissertation is to be deposited with the student’s major department.

Programs in the Area of School Psychology

Application

Application for admissions to the programs in school psychology must be filed with the School Psychology Committee of the Psychology Department. The application should include official transcripts of three letters of recommendation. Students who have not been admitted to Graduate Studies prerequisites must apply by April 1 for consideration concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee.

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 Masters degree is required for the recommendation. Students will arrange their programs according to the requirements for the Master of Science in Educational Psychology or its equivalent. Since the latter program is more flexible, the student will need to consult with the Psychology Department. Students should contact the School Psychology Committee when starting their studies in School Psychology Committee.

The Ed.S. degree in school psychology requires completion of sixty-six graduate hours including an internship as a school psychologist with one addition. The degree candidate must write a thesis which deals with research or supervised experience in the area of school psychology. The supervised experience must be a placement in a school setting.

1. Required Courses in Psychological Methods

Psychology 831M (or 431) Psychological and Educational Testing
Psychology 800V The Profession of Psychology
Psychology 853V Individual Tests I
Psychology 854V Individual Tests II
Psychology 851V Advanced Educational Psychology
Psychology 958 Personality Assessment
Psychology 957 Applied Research Analysis

2. Required Professional Education Courses

COUN 624V Counseling Practicales
EDAD 635V Foundations of Educational Administration and Supervision

3. Required Professional Supervised Work

One to three courses in basic psychology (outside the student’s area of specialization) and/or one to three courses in Special Education, Counseling and Guidance, or other professional educational work in both learning and developmental psychology.

A minimum of 200 clock hours are required for certification in Nebraska. The general rule is that 1 credit hour is equal to 2 clock hours.
The student's practicum is to be approved by the School Psychology Committee prior to institution.

Psychological Assistant

Applications who are pursuing toward endorsement in Nebraska as a Psychological Assistant must simultaneously complete requirements for the M.A. or M.S. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for admission to the M.A. or M.S. Program. Applications should be made to the Psychology Department and three letters of recommendation are required. Required courses in this program are: Psychology 813M (4 credits), 800V, 855V, 856V, and 897V. Also, one of the following is required: Psychology 835M (45 credits), or SPED 860M (460 credits). The student must also have had course work in both learning and developmental psychology.

Recommendation for Certification

Upon completion of the approved program of study the student requests review for the School Psychology Committee's recommendation for certification as a school psychology assistant. The student is expected to have completed the program satisfactorily (B or better) and must simultaneously complete requirements for the M.A. or M.S. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for admission to the M.A. or M.S. Program. Applications should be made to the Psychology Department and three letters of recommendation are required. Required courses in this program are: Psychology 831M (41 credits), 800V, 855V, 856V, and 897V. Also, one of the following is required: Psychology 835M (45 credits), or SPED 860M (460 credits). The student must also have had course work in both learning and developmental psychology.

Admission to Candidacy for Graduate Study

Examination must be on file in the Graduate Office; upon application for candidacy. In lieu of the internship, if waived, the student must maintain the professional standards of school psychology. The student in training is expected to be free from deficiencies specified in the minor or major program, if he/she lacks prerequisites for certain graduate courses additional course work may be prescribed which must be completed before unconditional admission is accorded. If an applicant has more than 9 hours deficiency, he/she will be advised to remove these before being considered for any type of admission.

General Public Administration

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

Admission to Candidacy for Graduate Study

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 civil public or semi-public agency. Requests to waive the internship shall be submitted to the departmental graduate committee for consideration. In lieu of the internship, if waived, the student must take six additional hours of approved course work. Eighteen hours of the course work must be at the 800 level and a comprehensive written final examination is required.

Admission to Candidacy for Graduate Degree

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

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 employment; (2) for those already in the public service who are seeking professional training; (3) for research or teaching in this field.

Admission to Candidacy for Graduate Study

Admission to Candidacy for Graduate Degree

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

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. The application forms shall be filled out by the student - in consultation with the major and minor programs should be carefully and completely signed by both the major and minor adviser. 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. Plans of study should be planned with acceptable alternatives included. Once approved, any modifications in the major or minor program must be brought to the attention of the major advisor and the approval of the UNO Dean for Admissions and Administration must be obtained.

Admission to Candidacy for Graduate Study

Examination must be on file in the Graduate Office; upon application for candidacy. In lieu of the internship, if waived, the student must maintain the professional standards of school psychology. The student in training is expected to be free from deficiencies specified in the minor or major program, if he/she lacks prerequisites for certain graduate courses additional course work may be prescribed which must be completed before unconditional admission is accorded. If an applicant has more than 9 hours deficiency, he/she will be advised to remove these before being considered for any type of admission.

General Public Administration


Gerontology Option

(15 hours to include the following plus one more course at the 800 level selected Gero 811M, Applied Social Gerontology Gero 855M, Health Aspects of Aging Gero 857M, Gerontology and Psychology Gero 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. P.A. 812V, Seminar in Local government 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 Regional Economics P.A. 892V, Readings in Public Administration P.A. 894V, Research in Public Administration

Elective courses:

CRP 811, Planning Process and Theory
**UNIVERSITY OF NEBRASKA AT OMAHA**

**CRP 415/815, Housing Renewal and Development**

**CRP 422, 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 Advisor):

- Transportation
- CE 466, Traffic Engineering
- CE 468A, Transportation Geometrics
- CE 485, Urban Transportation Planning
- CE 486, Transportation Planning and Economics
- CE 487, Environmental Quality and Control—Land, Air, and Water
- CE 483, Environmental Pollution Control
- CE 494, Water Resources Planning
- CE 496, Case Studies in Water Resources
- CE 609, Pavement Analysis and Design
- CE 842, Construction Management

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

- SW 820, Human Behavior and the Social Environment I
- SW 821, Human Behavior and the Social Environment II
- SW 831, Social Welfare Policy & Services I
- SW 852, Social Welfare Policy & Services II
- SW 815, Social Work Practice in Child Welfare
- SW 824, Social Work Practice in Mental Health
- SW 932, Delinquency and its Treatment
- SW 462, Administration in Social Work
- SW 564, Supervision in Social Work
- SW 975, Community Planning & Organization
- SW 989, Advanced Seminar in Social Work Practice
- SW 983, Special Studies in Social Welfare

**The Environmental Option** (15 hours to include at least one of the courses listed below, the remaining parts of the program to be customed designed for the student at the discretion of the Graduate Program Committee of the Biology Department. Students selecting this option must be for entrance into the graduate program by the Department of Public Administration and the Department of Biology. Biology 813V, Environmental Biology
- Biology 831V, Environmental Physiology
- Biology 815V, Plant Ecology

**The Law Enforcement Option** (15 hours to include CJ 801V, Seminar in Criminal Justice Planning and Innovation; CJ 802V, Seminar in Administration of Justice; CJ 812V, Criminal Justice Research Theory and Methodology, plus six hours from the following list selected in consultation with Advisor):

- CJ 802V, Comparative Law Enforcement Systems
- CJ 804V, Seminar in Community Services and Treatment
- CJ 805V, Seminar in Criminal Jurisprudence
- CJ 807V, Theoretical Criminology
- CJ 808V, Seminar in the Processes of the Criminal Justice System
- CJ 809V, Seminar in Delinquency Prevention, Control and Correction
- CJ 811V, Special Problems in Criminal Justice
- CJ 814V, Independent Study

**UNIVERSITY OF NEBRASKA AT OMAHA**

**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 work in the Department, students must hold a valid secondary teaching certification. During the first semester enrolment students must take the Graduate Record Examination, including the Advanced Test in Education. To be admitted to candidacy the combined scores on the AP and Advanced GRE Tests must total at least 1200. Students are expected to file more than 14 hours of completed course work may be included in the proposed program of graduate studies.

**Master of Science (with Minor)**

Students seeking the Master of Science Degree in a major in Secondary Education and a minor indicated below. Minimum and maximum hours that must be included from each area are indicated where appropriate.

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. SED Core</td>
<td>Min</td>
</tr>
<tr>
<td>SED 823V - Seminar in Secondary Education</td>
<td>6</td>
</tr>
<tr>
<td>Plus one of the following:</td>
<td></td>
</tr>
<tr>
<td>SED 904M - Problems: Post-Secondary/Higer Education</td>
<td></td>
</tr>
<tr>
<td>SED 820V - Seminar for Cooperating Teachers</td>
<td></td>
</tr>
<tr>
<td>SED 820V - Emerging School Curriculum</td>
<td></td>
</tr>
<tr>
<td>SED 831V - Analysis of Teacher Behavior</td>
<td></td>
</tr>
<tr>
<td>SED 904V - Simulation of Learning Laboratory for Secondary Teachers</td>
<td></td>
</tr>
<tr>
<td>SED 904V - Seminar in Applications of Non-Verbal Communication Theory</td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td>Min</td>
</tr>
<tr>
<td>Research Methods, Statistical</td>
<td>3</td>
</tr>
<tr>
<td>Methods, Tests &amp; Measurements</td>
<td></td>
</tr>
<tr>
<td>III. Professional Preparation</td>
<td>Min</td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Field</td>
<td>3</td>
</tr>
<tr>
<td>Seminars, Independent Research</td>
<td></td>
</tr>
<tr>
<td>IV. Related Professional Courses</td>
<td>Min</td>
</tr>
<tr>
<td>Related Academic Courses</td>
<td>3</td>
</tr>
<tr>
<td>Total: 36 hours</td>
<td></td>
</tr>
</tbody>
</table>

*A minimum of 12 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 in 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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<tbody>
<tr>
<td>I. SED Core</td>
<td>Min</td>
</tr>
<tr>
<td>SED 820V - Seminar in Secondary Education</td>
<td>9</td>
</tr>
<tr>
<td>Plus two of the following:</td>
<td></td>
</tr>
<tr>
<td>SED 904M - Problems: Post-Secondary/Higer Education</td>
<td></td>
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<tr>
<td>SED 820V - Seminar for Cooperating Teachers</td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td>SED 904V - Simulation of Learning Laboratory for Secondary Teachers</td>
<td></td>
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<tr>
<td>SED 904V - Seminar in Applications of Non-Verbal Communication Theory</td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td>Min</td>
</tr>
<tr>
<td>Research Methods, Statistical</td>
<td>3</td>
</tr>
<tr>
<td>Methods, Tests &amp; Measurements</td>
<td></td>
</tr>
</tbody>
</table>
I. SED Core

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

<table>
<thead>
<tr>
<th>AREA</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td></td>
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<tr>
<td>SED</td>
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<td></td>
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<tr>
<td>SED 1</td>
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<td>SED 2</td>
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<td>SED 4</td>
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<td>SED 5</td>
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<tr>
<td>SED 6</td>
<td></td>
<td></td>
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<tr>
<td>II.</td>
<td>6</td>
<td></td>
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<tr>
<td>Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Methods, Statistical Methods,</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Tests &amp; Measurements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Specialization</td>
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<tr>
<td>Improvement of Instruction Courses, Teaching Field Seminars, Independent Research,</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Project, Special Studies</td>
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<tr>
<td>IV.</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Related Professional Courses</td>
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<tr>
<td>V.</td>
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<td>6</td>
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<tr>
<td>Related Academic Courses</td>
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<tr>
<td>VI.</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Thesis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students seeking the Master of Science Degree must take a written Comprehensive Examination. The examination is administered in two parts. Part I is taken before the student has completed 18 hours of graduate work and before more than 24 hours are completed. This portion of the examination will deal with concepts common to the programs of all students who enroll in the Department, in which the examination is administered during or after the fall semester or summer session.

Part II of the examination is administered during or after the semester or summer session in which the student is taking the examination. This portion of the examination deals with the last course of the program of studies will be completed. The examination must be completed by the end of the second week of the semester in which the examination will be taken. If the examination cannot be completed by the end of the second week of the first summer session, the entire examination must be redone.

The examination is 42 credit hours plus 15 additional graduate semester hours in social work, which may be completed in a minimum of two semesters or full academic year. The programs leading to the Master of Social Work degree are the Advanced Standing Program, for students with a 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 or full academic year. 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 foundation courses. Specific foundation course requirements are determined on the basis of each student's previous course work and/or tested knowledge.

Students lacking either will be required to make up this deficiency during their first year of graduate study. 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.

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, 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.

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

SPECIAL EDUCATION

Graduate Requirements — STUDENT TEACHING

Students seeking SPED 872, SPED 873, and/or SPED 830, 850, 851, and 852 must submit a completed application form for student teaching/practicum signed by their advisor before March 15 for a fall and/or 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 850, 851 and 852 during the same semester.

programs. Their endeavors and interventions are designed to promote more effective functioning of society as it strives to "provide for the general welfare" as well as to help the people, families, groups, and institutions within the society toward self fulfillment.
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 proficiencies 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 Mechanics
   - 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 450, Communication Disorders in the Elementary and Secondary Schools
   - SPED 451, Basic Clinical Practicum in Speech Pathology
   - SPED 475, Childhood Language Disorders
   - PSY 213, Statistics

4. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field).
5. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   1. Required Courses:
      - FED 801V, Introduction to Research
      - SPED 851V, Advanced Clinical Practicum in Speech Pathology (school)
      - SPED 852V, Advanced Clinical Practicum in Speech Pathology (externship)
      - SPE 468V, Diagnostic Methods in Communicative Disorders
      - SPED 848V, Advanced Audiology
      - SPED 899V, Thesis
   2. Elective Courses:
      - Students may choose any of the courses in the area numbered 800 or above.
   3. Thesis:
      - Students must present a thesis representing six semester hours of work and which is deemed satisfactory by 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 provide investigative approaches to problems associated with children who are mentally retarded. Requirements include:

1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major adviser.
2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.
3. Students may undergo course work which will lead to:
   a. a major of 24 hours in mental retardation,
   b. a thesis not to exceed six semester hours.
   OR:
   a. a major of 15 semester hours in mental retardation,
   b. a minor of nine semester hours in a related field of interest,
   c. a thesis not to exceed six semester hours.
4. To be admitted as a candidate for the M.A. degree in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive examination covering these first twelve hours.
5. Each candidate will submit a thesis proposal to his committee for approval. A thesis will represent six semester hours in independent study under the direction of the major adviser.
6. Subject to review of the applicants transcripts and related experiences with retarded children, required courses may be selected from the following:
   a. Required Courses:
      - FED 801V, Introduction to Research
      - SPED 840V, Seminar in Special Education
      - SPED 872U, Practicum in Special Education
      - SPED 899 Thesis
   b. Elective courses may be chosen from any of the 800 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 for the professional training of Reading Specialists. Applicants for admission must be eligible for teacher certification at the undergraduate level. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.

1. Core Professional Courses
   - In excess of 18 hours
   - Including work in graduate reading courses SPED 911, 912, 831V, 814V, 835V, 917V or 918V or their equivalent.
2. Related Professional Courses
   - In excess of 6 hours
   - Including Introduction to Research and selected work in such areas as foundation and general education, elementary education, secondary education, special education, and psychology.
3. Related Elective Courses
   - In excess of 12 hours
   - Including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II.

Master of Science: Speech Pathology

The Master of Science 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 proficiencies 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 443, Speech Pathology I: Childhood Language and Articulation
   - SPED 444, Speech Pathology II: Rhythm and Symbolization
   - SPED 445, Speech Science II: Experimental and Applied Phonetics
   - SPED 450, Communication Disorders in the Elementary and Secondary Schools
   - SPED 451, Basic Clinical Practicum in Speech Pathology
   - SPED 475, Childhood Language Disorders
   - PSY 213, Statistics

4. Thirty-six hours of course work and practicum. These hours may be taken from the following:
   1. Required Courses:
      - FED 801V, Introduction to Research
      - SPED 840V, Diagnostic Methods in Communication Disorders
      - SPED 848V, Advanced Audiology
      - SPED 851V, Advanced Practicum Speech(Schools)
      - SPED 852V, Advanced Practicum Speech (Externship)
      - SPED 853V, Seminar in Speech Pathology
   2. Elective Courses in Communicative Disoders:
      - Students may choose any of the courses in the area numbered 800 or above.
   3. Elective Courses in Related Area:
I. Admission to the University of Nebraska at Omaha Graduate College requires that the Graduate Record Examination (GRE) be taken within Step I of program sequence.

II. Certification
A. The student must hold a teaching certificate from a state education agency and be eligible to teach in elementary or secondary grades, special education, guidance counseling, etc.
B. Certification and endorsement areas for special education require a doctorate in special education.
C. Students accepted into the program without certification must submit to the faculty advisor for certification.

Entrance Requirements:
A. Admission to the University of Nebraska at Omaha Graduate College requires that the Graduate Record Examination (GRE) be taken within Step I of program sequence.
B. Certification
A. The student must hold a teaching certificate from a state education agency and be eligible to teach in elementary or secondary grades, special education, guidance counseling, etc.
B. Certification and endorsement areas for special education require a doctorate in special education.
C. Students accepted into the program without certification must submit to the faculty advisor for certification.

I. Required Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 803M, History, Education and Guidance of the Deaf</td>
<td>2 cr. hrs.</td>
</tr>
<tr>
<td>SPED 821M, Teaching of Speech to the Deaf I</td>
<td>2 cr. hrs.</td>
</tr>
<tr>
<td>SPED 822M, Teaching Speech to the Deaf II</td>
<td>2 cr. hrs.</td>
</tr>
<tr>
<td>SPED 823M, Teaching Language to the Deaf I</td>
<td>2 cr. hrs.</td>
</tr>
<tr>
<td>SPED 824M, Teaching Language to the Deaf II</td>
<td>2 cr. hrs.</td>
</tr>
<tr>
<td>SPED 825M, Speechreading and Auditory Techniques</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 837M, Hearing Loss and Audiology</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 863M, Curriculum Planning for the Disabled</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 890V, Special Projects</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 870V, Seminar in Special Education</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>FED 801V, Introduction to Research</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 816V, Curriculum Planning for the Disabled</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 872V, Basic Student Teaching</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
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<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 866V, Vocational Training of the Mentally Retarded</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 880M, Emotional Development</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 887U, Diagnosis and Remediation Techniques in Early Childhood Education for the Disabled</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 888M, Introduction to Psychologically Handicapped</td>
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</tr>
<tr>
<td>SPED 886V, Vocational Training of the Mentally Retarded</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 887V, Community Resources for the Mentally Retarded</td>
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</tr>
<tr>
<td>SPED 871V, Parent-Professional Relationship in Special Education</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 865M, Methods and Materials for Teaching Crippled</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 890L, Administration and Supervision of Special Education</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>SPED 887U, Diagnosis and Remediation Techniques in Early Childhood Education for the Disabled</td>
<td>3 cr. hrs.</td>
</tr>
</tbody>
</table>

Master of Science: Teaching the Mentally Retarded

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

1. The student must hold a valid teacher's certificate. Those not holding teaching certificates will be subject to a review of the applicant's transcripts and his/her related experiences covering the first twelve hours.

2. Each candidate, having successfully completed thirty hours of coursework and practicum, must show courses, graduate or undergraduate, which relate to:

   - A. Child Development - 3 hours
   - B. No other coursework will be accepted.

3. To be admitted as a candidate for an M.S. degree in mental retardation, the student must have successfully completed twelve hours of coursework and pass a comprehensive examination covering the first twelve hours.

4. Each candidate, having successfully completed thirty hours of coursework 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 coursework and practicum may be taken from the following required and elective courses:

   - Required Courses

<table>
<thead>
<tr>
<th>Course Title</th>
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<tbody>
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Objective Test — This is designed to examine the student's past and present exposure to theories and terms concerning the area of special education and learning disabilities.
The student must demonstrate a "B" average for the last two years of coursework. The student may be granted provisional admission with less than a "B" average (but not less than 2.54) (See Graduate Catalog). The student must maintain a "B" average for graduate work.

2. 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.

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

4. An informal interview with the advisor.

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

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

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

Program Requirements

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

2. The student will be required to take a 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 800, 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 845, 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
   FED 895, Diagnosis of Learning Disabilities — 3 hours
   SPED 872, Basic Observation and Student Teaching in Special Education — 3 hours
   SPED 881, Classroom Techniques of Behavior Control — 3 hours

   Electives
   SPED 896, Advanced Diagnosis of Learning Disabilities — 3 hours
   SPED 812, Diagnosis and Remedial Instruction in Reading — 3 hours
   SPED 875, Childhood Language Disorders — 3 hours
   PSY 831, Psychological and Educational Testing — 3 hours
   PSY 832, Personality Theories — 3 hours
   PSY 846, Techniques of Programmed Instruction — 3 hours
   PSY 877, Learning Disabilities — 3 hours
   PSY 878, Behavior Modification — 3 hours

   Comprehensive Examination

   Step III — 12 hours
   
   Required

   SPED 871, Parent/Professional Relationships — 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.

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

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

Degree Requirements

Thirty-six semester hours of course work are required. A core of six required courses shall be completed, plus nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 883V, 884V, 801V, 802V; and History 844M or 812M, and a course in research methods. Courses applicable to the area of concentration may include, but are not necessarily restricted to, Political Science 892M, 843M, 880V; Public Administration 840V, 847V, 844V, 846V, 848V; Geography 881V; Psychology 991; Sociology 810M, 841M, 802M, 875M, 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 882V, 886V, 887V, 888V; History 843M, 811M; Geography 881V, 812M; or many of the courses listed above.

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

A comprehensive final examination 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 (CT) 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

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

841M Advanced Painting (3) Instruction in 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 instructor.

851M Advanced Techniques in Printmaking (3) Intaglio, lithography, collagraph, and the embossed print, stressing color and technical proficiency in the various media. Prereq: 451 and permission of instructor.

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

831V Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: Art 451 and permission.

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

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

Biology

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

834J Ecology (4) The study of the behavior of whole organisms and groups of organisms in relation to their total living and non-living environment. Prereq: For 344, Biology 145 and 175, junior-senior. For 834J, Biology 145 and 175.

344/844J Morphology of Lower Plants (4) A lecture and laboratory course which covers the morphology, morphology, and evolutionary trends of algae, fungi, and bryophytes. Prereq: For 344, Biology 145, junior-senior. For 844J, Biology 145.


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

374/874J 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.

384/884J 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.

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

414/814M 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.

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

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

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

478/487M Vertebrate Zoology (4) A study of the vertebrates of the subphylum vertebratae including the morphology, anatomy, physiology and ecology of vertebrate representatives. Prereq: For 478, Biology 175. For 487M, Biology 175.

494 Environmental Biology (3) A study of the recent advances in understanding the organization of the population dynamic processes. Prereq: For 494, Biology 175. Junior, senior. For 494M, Biology 175.

515 Plant Ecology (4) Advanced study of the relationship of plants to their environment, vegetative change and techniques used in analysis. Prereq: Biology 344/444M or permission of instructor. Lecture only. (Same as 155M.)

492/492M Endocrinology (4) A study of endocrine and metabolic functions of the endocrine glands and their role in the control of the body's functions. Prereq: Junior, senior. For 492M, a course in the collection, cultivation, identification and natural history of the invertebrate animals. Prereq: For 492, Biology 175. Junior, senior. For 492M, Biology 175. For 492M, Biology 175.


484/484M Vertebrate Zoology (4) A study of the vertebrates of the subphylum vertebratae including the morphology, anatomy, physiology and ecology of vertebrate representatives. Prereq: For 484, Biology 175. Junior, senior. For 484M, Biology 175.

485/485M Ichthyology (4) A study of the biology of fishes, including their evolution, anatomy, phylogeny, physiology, distribution, classification and identification with emphasis on North American freshwater fishes. Prereq: For 485, Biology 175. Junior, senior. For 485M, Biology 175.

483/483M Physiology (4) A study of the physiology and physiology of reproduction, genetics and ecology with emphasis in animal and plant groups. Prereq: Biology 175, general zoology.

482/482M Parasitology (4) Taxonomy, morphology, physiology, behavior, life histories, diseases and control of the parasitic protozoans, helminths and arthropods. Prereq: Biology 175.

464 Environmental Biology (3) A study of the recent advances in understanding the relationship of plants to their environment, vegetative change, and techniques used in analysis. Prereq: Biology 344/444M or permission of instructor. Lecture only. (Same as 155M.)

516 Botany (3) A study of the morphology and botany of organisms in relation to support, circulation, response, excretion and reproduction. Prereq: Junior, senior. Required for selected students admitted in biology and permission of the instructor.

520 Bacteriology (3) A study of the morphology and botany of organisms in relation to support, circulation, response, excretion and reproduction. Prereq: Junior, senior. Required for selected students admitted in biology and permission of the instructor.

505 Microbiology (3) A study of microorganisms, their life processes, their biochemistry, and significance. Prereq: For 505, Biology 145. For 505M, Biology 145.

521 General Botany (3) A study of the flowering plants. Prereq: Junior, senior. For 521M, Biology 145.

522 Experimental Botany (3) Laboratory study of the methods of the experimental science emphasizing experimental techniques applied to botany. Prereq: Graduate student in biology must complete this course twice for credit. Prereq: Graduate standing.

523 Problems in Botany (3) Research investigation in various areas of biology. Prereq: Junior, senior. For 523, Biology 145. Required for selected students admitted in biology and permission of the instructor.

524 Current Topics in Botany (3) Survey of recent literature in one or more of the following areas: biochemistry, histology, morphology, anatomy, taxonomy, economic botany, genetics, physiology. Prereq: For 524, Biology 175. Junior, senior. For 524M, Biology 175.

530 Vertebrate Zoology (3) Survey of the recent literature in one or more of the following areas of zoology: taxonomy, morphology, anatomy, physiology, behavior, zoogeography, genetics. Prereq: Graduate standing and permission.

525 Environmental Biology (3) A study of the recent advances in understanding the organization of the population dynamic processes. Prereq: For 525, Biology 175. Junior, senior. For 525M, Biology 175.

526 Plant Ecology (4) Advanced study of the relationship of plants to their environment, vegetative change, and techniques used in analysis. Prereq: Biology 344/444M or permission of instructor. Lecture only. (Same as 155M.)

526 Botany (3) A study of the morphology and botany of organisms in relation to support, circulation, response, excretion and reproduction. Prereq: Junior, senior. Required for selected students admitted in biology and permission of the instructor.

527 Bacteriology (3) A study of the morphology and botany of organisms in relation to support, circulation, response, excretion and reproduction. Prereq: Junior, senior. Required for selected students admitted in biology and permission of the instructor.

528 Environmental Biology (3) A study of the recent advances in understanding the relationship of plants to their environment, vegetative change, and techniques used in analysis. Prereq: Biology 344/444M or permission of instructor. Lecture only. (Same as 155M.)
385V Banking and Financial Markets: Structure, Function, and Policy (3) A comprehensive study of financial institutions, their organization, and management. Prerequisite: 280V or 823V. BA 823V.

860V Real Estate and Land Use Economics Theory (3) This course brings together the best of the technical literature dealing with the development of advanced tools of analysis and concepts and their use in understanding the real estate and land use economics. The tools are presented and developed which assist real estate decision-makers in identifying and evaluating professionally the complex factors which determine real estate productivity, value, rent, investment, and land-use patterns. Prerequisites: Econ 203 or 800L.

861V Current Problems in Real Estate and Land Use Economics (3) Current problems in real estate markets affecting decision policies in the private and public sectors. Analysis of government policies of land development and use and the use of real property to provide a viable environment for all citizens. Prerequisites: RE 341, RE 346, RE 440, and RE 441 or equivalent experience.

880V Policy, Planning and Strategy (3) A comprehensive study of public policy, problems, and opportunities at various levels of government. Research demonstrating interrelationships between various disciplines within the special experiential techniques. A or B is considered an acceptable grade. Prerequisites: Taken in last 9 hours of MBA program.

325/835J Selected Topics in Economics and Administration (3) A study of a selected topic in the areas of classical thermodynamics, statistical mechanics and chemical therodynamics. Prerequisite: Chemistry 335L.

336L/836L Physical Chemistry Laboratory (1) Physical chemistry laboratory. Chemistry 336L only for students concurrently with Chemistry 336L. Prereq: Chemistry 335L.

430/840J Instrumental Analysis (2) Instrumental analysis. Normally taken concurrently with Chemistry 340L. Prerequisites: Chemistry 335L. 840L.

440L/840L Instrumental Laboratory Analysis (2) Laboratory to be taken concurrently with Chemistry 340L. Prerequisites: Same as Chemistry 840L.

423/823M Advanced Organic Chemistry (3) An advanced lecture course in modern theories and special topics in organic chemistry. Prerequisites: Chemistry 226, 335 with grade of C or better (Chemistry 335L may be taken concurrently.)

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

450/850M Advanced Inorganic Chemistry (3) Theories of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and recent problems in inorganic chemistry. Prerequisites: Chemistry 336L (May be taken concurrently.)

451/851M Advanced Inorganic Preparation (1) The preparation of representative inorganic compounds as demonstrated by the student in the special experimental techniques. Prerequisites: Chemistry 450 (May be taken concurrently.)

465/865M Biochemistry (3) Chemistry and biochemistry of proteins, carbohydrates and lipids. Enzymes, cell structure and biological oxidation. Not open to students with credits in 365 or 366. Chemistry 465 must be taken concurrently with Chemistry 465. Prerequisites: Chemistry 226, 226L and 336, 340L.

466/866M Biochemistry and Biochemistry Laboratory (3) Biochemistry laboratory for Chemistry 465. Course involves the performance of a comprehensive research project under the supervision of a faculty thesis adviser and two other faculty members, one of which must be from outside the program area.

467/867M Biochemistry and Biochemistry Laboratory (3) Biochemistry laboratory for Chemistry 467. Course involves the performance of a comprehensive research project under the supervision of a faculty thesis adviser and two other faculty members, one of which must be from outside the program area.

468/868M Biochemistry and Biochemistry Laboratory (3) Biochemistry laboratory for Chemistry 468. Course involves the performance of a comprehensive research project under the supervision of a faculty thesis adviser and two other faculty members, one of which must be from outside the program area.

336/836L Physical Chemistry (3) A presentation of selected topics from the areas of classical thermodynamics, statistical mechanics, chemical therodynamics, and quantum mechanics. Prerequisites: Chemistry 226, 326, 240L, 335L, and grade of C or better. Physics 212L, Math 196.

336L/836L Physical Chemistry Laboratory (1) Physical chemistry laboratory. Chemistry 336L shall be taken concurrently with Chemistry 336L. Prerequisite: Chemistry 240L, and grade of C or better. Physics 212L, Math 196.

336/836L Physical Chemistry (3) A presentation of selected topics from the areas of classical thermodynamics, statistical mechanics, and chemical thermodynamics. Prerequisites: Chemistry 335L.

336L/836L Physical Chemistry Laboratory (1) Physical chemistry laboratory. Chemistry 336L only for students concurrently with Chemistry 336L. Prereq: Chemistry 335L.
dation systems; determination of allowable bearing pressures from laboratory and field data; proportioning shallow foundations for bearing capacity; design of deep foundations; pile driving analysis; control of ground water; Preterm: Graduation standing, Civil Engineering 334; or equivalent.

441/841M Structural Analysis II (3) Analysis of statically indeterminate structures, including continuous beams, plate structures, and frames. Numerous solution methods are presented including an introduction to solutions by matrix methods. Effects of temperature and movement on the structure are included. Laboratory. Relation of design to analysis. Preterm: For 441, Civil Engineering 340. For 841m, graduate standing.

444/844M Steel Design I (2) An introductory course involving the application of the basic principles of mechanics of materials and the current practices in proportioning of structural members in steel. Preterm: For 444, Civil Engineering 331 or Civil Engineering 457 or equivalent. For 844m, graduate standing and permission of the instructor. For 844m, graduate standing.


446/846M Steel Design II (3) A continuation of Steel Design I, Preterm: For 446, but directed toward building systems. Steel and timber structural systems studied. This course is intended for students planning to take the EIT exam. Preterm: For 446, Civil Engineering 483 and graduate standing.

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

448/848M Plastic Analysis I (3) Application of the basic principles of plastic analysis to frame structures. Discussion of the basic concepts of plastic collapse concepts, upper and lower bound theorems, and moment bending lines. Application to various framed geometries. Member selection and deflection calculations. Preterm: For 448, Civil Engineering 443. Preterm: For 448m, graduate standing or permission of the instructor. For 848m, graduate Engineering 441m and graduate standing or permission of the instructor.

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

854M Hydraulic Engineering (3) Fundamentals of hydraulics with emphasis on liquid per- mitted, design, mechanics of fluids, and engineering economics to the design of hydraulic structures, and environmental concerns. Continuity and momentum principles are applied to special problems from various branches of engineering and mathematics, including an introduction to solutions by matrix methods. Effects of temperature and movement on the structure are included. Preterm: Graduate standing and permission of the instructor.

456/856M Advanced Hydrology (3) Advanced topics in hydrology including parameterization and risk analysis. The focus is on the application of techniques in the design of engineering projects. Preterm: For 456, Civil Engineering 331 or Civil Engineering 457 or equivalent. For 856m, graduate standing and permission of the instructor.

457/857M Engineering Hydrology I (3) Hydrologic principles. Emphasis is placed on understanding the components of hydrologic events and their interaction with the surface runoff, infiltration, drainage basin characteristics, streamflow, and precipitation runoff relationships. Emphasis is placed on applying these variables in engineering judgment. Preterm: For 457, Civil Engineering 331 or equivalent. For 857m, graduate standing and permission of the instructor.

458/858M Ground Water Engineering (3) The application of engineering principles to the management and development of ground water resources. The physical and geologic environment on ground water hydrology, well hydraulic and aquifer evaluation. Emphasis is placed on practical ground water engineering problems. Preterm: For 458, Civil Engineering 331 or equivalent. For 858m, graduate standing and permission of the instructor.

461/861M Urban Transportation Planning (3) Development of urban transportation planning, objectives and goals of transportation systems. Urban land use and travel forecasting techniques, trip generation models, and choice behavior, traffic analysis, Mass transit system design, operation and evaluation. Preterm: Upper class standing or permission of the instructor.

462/862M Airport Planning and Design (3) Principles of airport location and design, with emphasis on the selection of airports in the 1980s. Analysis of airport financing, site selection and estimation of economical demand, and development of alternate sites. A broad overview of airport design discussed. Environmental effects of airports including noise and air pollution discussed. Preterm: For 462, upper class standing and permission of the instructor. For 862m, graduate standing and permission of the instructor.

463/863M Transportation Geometrics (3) Fundamentals of transportation systems, analysis of highway, transportation and urban design considerations. Horizontal and vertical curves. Development of design criteria and compatibility and ramp curve analysis. Design of highway interchanges, channelization and cross sections. Bases of airport, railroad, mass transit and pipeline design geometries. Preterm: For 463, upper class standing and permission of the instructor. For 863m, graduate standing and permission of the instructor.

474/874M Traffic Engineering (3) Characteristic traffic flow influenced by the interaction of the driver, vehicle and roadway environment, accident investigation, safety analysis, roadway capacity, traffic control devices, Preterm: For 474, upper class standing and permission of the instructor.

476/876M Portland Cement and Asphalt Concrete Laboratory (1) Laboratory and field procedures used to obtain Portland cement and asphalt concrete. Preterm: For 476, GE 334 or equivalent. For 876m, graduate standing.

479/879M Environmental Design and Evaluation (3) Introduction to highway and rigid pavement design and evaluation, with emphasis on the components of the design and the performance of existing pavements. Preterm: For 479, CE 334 or equivalent. For 879m, graduate standing.

470/870M Construction Management (3) Estimating and bidding, scheduling, (CPM), critical path, contracts, bonds and insurance, cost control systems, equipment utilization, code and zoning, and organization of the construction firm. Preterm: Permission of the instructor.

472/872M Construction Technology (3) Job planning and management; construction equipment and materials; construction materials and techniques; construction methods. Preterm: Permission of the instructor.

474/874M Construction Cost and Controls (3) Analysis of construction accounting, costing and management control as related to the contractor and client organization. The various relationships between the accounting and management. Preterm: Permission of the instructor. Preterm: Permission of the instructor. Preterm: Permission of the instructor.


486/886M Broadcasting Sales Seminar (1) A study of the overview of broadcast broadcasting, sales and marketing. Preterm: Nine hours of broadcast courses including Comp 339.

489/889M Communication 12th Edition (3) A workshop to explore and develop new communications strategies, in the formation and extension of the role of public relations and sales in today's society. Preterm: Permission of the instructor.

493/893M Public Relations (3) A study of the principles, problems and techniques of the public relations function through lecture, discussions and case histories.

491/891M Business Law (3) A study of the law of sales, goods and services, bodies politic and contracts, and the legal process in the courts.

492/892M Introduction to Accounting (3) Fundamentals of financial accounting with emphasis on corporate and personal financial statements.

493/893M History of Broadcasting in the U.S. (3) An historical/index of the institutional foundations of broadcasting in the United States, from its antecedents to the present day. Preterm: Permission of the instructor.


496/896M Principles of Broadcasting (1) An introduction to the field of broadcast sales in the American system of broadcasting. Preterm: Comp 150 or 151.

497/897M Broadcasting Sales Seminar (1) A study of the overview of broadcast sales and marketing. Preterm: Nine hours of broadcast courses including Comp 339.

499/899M Communication Seminar (3) A workshop to explore and develop new communications strategies, in the formation and extension of the role of public relations and sales in today's society. Preterm: Permission of the instructor.

499/899M Mass Media and Society (3) The study of mass media in social institutions, particularly in their interaction with government and the public, with emphasis on the role of mass media, government, corporate and other institutions. Preterm: Permission of the instructor.

499/899M Communication 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.
837V Group Counseling Theory and Practice (3)
A course designed primarily for Counselors with a combination of theory and experiences necessary to the understanding of effective leadership skills involved in the group counseling process. Prereq: Consent of 990M, Coh 820V, Coh 823V, and Coh 827V.

839V Guidance Services and The Disadvantaged Youth (3)
A study of the methods and techniques in counseling disadvantaged youth. Prereq: Cons of 820V and 842V.

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

847V Practicum in Group Counseling (4)
Supervised experience co-facilitating group counseling at an approved practicum site. Required as the third course for the cognate area of Group Work in Counseling. Prereq: Counseling major, Coh 824, 827, 837 and/or permission.

860 Parent Education (3)
Review of literature related to the role of parents in America programs in parent education. Study of the basic concepts of the dynamics of group discussions, child development and family relations with emphasis on application to parent education programs. Satisfies requirement for DEAF 860. Prereq: Graduate standing.

890M Principles of Guidance (3)
The introductory course for students majoring in the counseling and guidance department. A study of basic principles underlying guidance and counseling. (Non-counseling majors are encouraged to take this course as a prerequisite to guidance skills for student teachers or Coh 892M, guidance in the elementary school.)

897V Personal Values and Aging (1)
Course designed to increase students' self-awareness of personal values and feelings related to aging and the aged. Prereq: Cons of 890M or permission of instructor.

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

Criminal Justice

814V Criminal Justice Planning and Innovation (3)
A review of the literature in social psychology, public administration and sociology which relate to the effectiveness of alternate strategies of promoting change in criminal justice agency functions, organizations, and individual attitudes and values. Prereq: Permission of instructor.

820V Seminar in Administration of Justice (3)
Justice in America from the standpoint of the offender and an inquiry into the influences and pressures upon individuals across the criminal justice spectrum who cooperate deliver justice to the citizenry. More feasible and improved systems of delivery are examined. Prereq: None.

822V Comparative Law Enforcement Systems (3)
A structural and functional examination of modern law enforcement systems, especially European. Emphasis placed upon historical development, current practices and trends. Prereq: CJ 203 and permission of instructor.

844V Seminar in Community Services and Treatment (3)
Special projects in dramatic arts supplementing regular courses; individual research study. Prereq: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

860M Children's Theatre Production (3)
Study of the methods of direction, design and construction of sets and properties (i.e., scenic design and lighting) and stage action and style of play for children. Student plan a complete children's theatre production or become involved in an actual production. Prereq: Undergraduate major or minor in theatre. Prereq: Permission of instructor.

899V Advanced Oral Interpretation (1-3)
Theories and forms of interpretation from antiquity to the present. Preparation and presentation of a recital. Prereq: DA 109.

893M/323M Acting: Historical periods and Styles (Each 3) The fundamental theories and practices of major styles of acting from ancient to present, including interpretation of outstanding dramatic literature. Prereq: DA 331-332 or permission of the instructor.

844V Directing: Rehearsal and Performance (3) A practical in play selection, analysis, casting, directing and performing. Prereq: DA 101, 206, 263, 331 or permission of the instructor.

851M Costume Design (Each 3) An introduction to the fundamentals of stage costume design, including line, silhouette, movement, spectrum of law enforcement and corrections. Prereq: DA 101, 206, permission of instructor.

821V Criminal Justice Research Theory and Methodology (3) Research theory and methodology in the social sciences as applicable to criminal justice; applied research design, conceptual models, sampling procedures, and development of research papers. Prereq: Permission of instructor.

814V Independent Study (1-3) Individual projects geared to student learning needs. Prereq: DA 101, 206, 263, 267.


827M Preparation of Instructional Materials (3) Preparation of instructional materials pertinent to the classroom. Prereq: Consent of instructor and DA 101.

828M Audio-Visual Materials in Education (3)
An introduction to the theory, history, organization, and utilization of educational technology for instruction, emphasizing the place of educational media in the learning/teaching process. F.S.S.u.

870M Preparation of Instructional Materials (3)
Design and production of audio-visual materials for the classroom. Prereq: Coh 201 and 202.

871M Seminar in Dramatic Literature (3) A seminar for graduate and advanced undergraduate students which will explore selected subjects in dramatic literature in depth. Research papers and seminar reports will be required. The seminar of the subject will change from year to year. Prereq: Permission of the instructor.

874V Seminar in Play Direction (3) An indepth study of the principles and techniques of directing. Prereq: Graduate standing and permission of instructor.

865V Technical Theatre Problems (3) Research and dialogue in the aesthetic, practical, and technical problems of producing plays for children. Prereq: DA 101, 461, 467, 471, 472 or permission of the instructor.

894V Dramatic Arts Research Methods (3) This three-course sequence introduces graduate students to research in dramatic arts to be used by scholarly researchers gathering data, defining the problem, and preparing the manuscript. Prereq: Admission to graduate program in Dramatic Arts.

894V Dramatic Theory and Criticism (3) For advanced students of dramatic literature. Important theoretical approaches from antiquity to the present. Prereq: DA 101 or permission of instructor.

892V Seminar in Contemporary Theatre Aesthetics (3) Research and dialogue in the aesthetic, theoretical, and organizational approaches to contemporary theatre. Emphasis on the sources and configurations of theatrical style in this century. Prereq: DA 101, 471, 472 and English 252 or permission.

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

Economies

418/818M Collective Bargaining (2) A study of the issues, structures, and procedures involved in collective bargaining and collective disputes, as centered around the labor-management relationship. Prereq: Econ 315. Fall in even-numbered years.

821M Competition and Monopoly in American Industry (3) An analysis of the theories of competition and monopoly in the American economy and its impact on the performance of market structures, conduct, and economic performance in a variety of industries. Prereq: Econ 320.

833M Advanced Macro-Theory (3) A study of the theory of price and growth. Classical and Keynesian systems are contrasted with recent theoretical models being explored. Prereq: Econ 322.

843V Trade and Economic Growth (3) An examination and analysis of the methods of measurement of economic growth from the medieval to the Keynesian period. Focus is on the impact of business cycles, equilibrium, economic thought, and economic doctrine. Prereq: Econ 410. Fall in even-numbered years.

430/R50M Quantitative Applications in Economics and Business (3) The study and application of modern quantitative techniques to problems solving in economics and business. Prereq:
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Econ 201, 202 and D.S. 212 or permission of instructor.

445/455M Monetary Theory and Policy (3) This course covers the development of monetary theory from the classical theory to current monetary theory. It includes the classical theories of money, the theoretical measurement and evaluation of general business conditions, and the adaptation of business cycles. Prerequisite: Admission to the College of Business Administration.

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Econ 320 and 322 or permission.

821V Business Conditions Analysis (Same As BA 810V, Same As EDAD 835) This course analyzes the theoretical basis for the analysis of economic problems of a regional nature. It is designed to acquaint the student with the nature of administration and supervision in urban and regional settings. Prerequisite: Graduation student in economics and permission of instructor.

892V-909V Independent Study (Each 1-3) Guided independent study and research under the direction of the instructor. Prerequisite: Graduation student in economics and permission of instructor.

985V-999V Urban-Regional Research (Each 3) For graduate students in economics who have completed 32 hours of graduate work in economics. Prerequisite: permission of the instructor.

995V Seminar in Economic History of the Western World (3) This course, intended primarily for graduate students in history and economics, is a research course. As such, students will be expected to carry out a research project dealing with the economic history of the western world and/or its relations with least-developed parts of the world. Prerequisite: Permission of instructor.

997 Thesis (1-6) An independent research project, written under the supervision of a graduate adviser in the department of economics. Prerequisite: permission of the student's departmental committee. Prerequisite: Permission of graduate adviser.

840V Regional School Administration (3) The study of a series of related issues in urban administration. Emphasis will be placed upon the theory and techniques of administration. Prerequisite: Admission to education specialist program and approval of department chairman.

85V Seminar in Educational Administration (3) A study of educational problems with in-depth research analysis to show their relationship to and implication for educational administration. Prerequisite: Admission to EDAD Dept.

835V Foundations of Educational Administration and Supervision (3) A study of the fundamental concepts of effective educational administration, including the inter-relationship between the federal, state, and local responsibilities.

840V Practicum in Educational Administration and Supervision (3) A study of educational institution and methods of study and practice in elementary, secondary, and general administration and supervision as the interests and needs of the student requires. Prerequisite: Completion of 24 hours of graduate study and approval of written application. Prerequisite: Graduate student with graduate standing. (II) A seminar with study and practice in educational administration and supervision as the interests and needs of the student requires. Prerequisite: Admission to EDAD Dept.

847V Administration in Urban Economics (3) The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school. Prerequisite: FED 801V.

847V Administration in Supervision in Secondary Schools (3) The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school. Prerequisite: FED 801V and EDAD 840V.

848V Administration and Supervision in Senior High School (3) This course is designed to acquaint the graduate student with the nature of administration and supervision of the senior high school. Prerequisite: Admission to EDAD Dept.

85V School Business Management (3) An analysis of the functions of business management; budgetary procedures, financial planning, accounting and auditing; reporting; management of funds; purchasing procedures and policies; administration and protection of property; and administration of transportation.
850V School Finance (3) A study of the sources of school financing; local, state, and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance. Prereq: FED 104v and EdAd 835v.

860V School Plant Planning and Operation (3) (3) Part II. The modern school plant as an economic, social, and cultural institution. Site selection; building construction and maintenance; design and planning of the modern school plant; education service and equipment; maintenance and operation; rehabilitation; scheduling of work; and custodial care. Prereq: EdAd 80v and EdAd 835v.

861V Organization and Administration of The Physical Plant (3) Designed to give the physical plant administrator competence in organizing the maintenance and operation program of the school plant; includes long range planning, rehabilitation and remodeling, financing, scheduling of work, and custodial care. Prereq: EdAd 860v.

870V Administration and Staff Personnel (3) A course dealing with personnel policies, problems, and issues in the following areas: Teacher recruitment, orientation, evaluation, selection, tenure, retirement, professional organizations, and legal status. Emphasis will be placed upon the techniques of democratic administration. Prereq: EdAd 80v and EdAd 835v.

871V Techniques in Educational Administration (3) This course is designed specifically to deal with interpersonal and group relations. It is designed to approach these problems with a focus on the techniques of democratic administration. It should be useful to those administrators who recognize the need to increase their knowledge and skill in human relations. Prereq: FED 801v and EdAd 835v.

881V Principles of Adult Education (3) An introduction to the study of adult education as a major development in contemporary America. It deals with characteristics of effective leadership in all types of groups, (ESG).

498/898M Growth and Learning Problems of Disadvantaged (3) An intensive study designed to help students develop a basic understanding of child growth and development and learning problems of the disadvantaged children and youth. (F, S)

809V Special Studies (3) A series of intensive courses designed to give students an opportunity to design and conduct research projects. Prereq: Admission to graduate study. (1-3)

810V Human Growth and Development (3) To acquaint the beginning graduate student with the nature and significance of research; to enable the student abstract from specific research results and techniques; to give some understanding of the social and spiritual growth of man; and to develop some experience in studying and preparing research reports.

811V History and Philosophy of Education (3) An intensive study of the historical and philosophical foundations of education; special emphasis is placed on the economic, industrial, cultural, and social conditions that have shaped or are influencing American education.

812V Communication for Teachers of The Disadvantaged (3-6) An intensive interdisciplinary course dealing with the nature of the disadvan­
taged pupil, contents of the academic program, and group interaction for the instructional team. Emphasis is on the development of communication skills. Prereq: Admission to graduate study. (1-3)

817V Comparative Education (3) An intensive study of the educational systems of selected na­
tions found in Africa, Asia, Latin America, and Africa; particular emphasis is placed on a total study of the society selected and its relation to educational adaptation and future educational directions.

820V Seminar in Special Education (3) Systematic study of the problems and developments which have current significance to American or foreign education; individual student and group analysis.

820V Educational Society and Community (3) A study of the problems that modern society is confronted with in the field of education. Emphasis is placed on the interface between the educational institution and the community. Prereq: Admission to graduate study. (F, S)

820V Alternative Strategies for Education (3) An intensive study of (A) The impact of present society; (B) Current alternative proposals for educational reform. Prereq: Admission to graduate study. (F, S)

870W Research Project (1-3) Individual or group study and analysis of specific problems in educational administration. (1-3)

881V Urban Education and Community (3) A course designed for students who wish to prepare themselves for the administration of city schools. Prereq: Admission to graduate study. (1-3)

888M Urban Education and Community (3) A course designed for students who wish to prepare themselves for the administration of city schools. Prereq: Admission to graduate study. (1-3)

812V Conflict and Controversy in Urban Education (3) A course designed for students who wish to prepare themselves for the administration of city schools. Prereq: Admission to graduate study. (1-3)

813V Field Research Techniques in Urban Education (3) A course designed for students who wish to prepare themselves for the administration of city schools. Prereq: Admission to graduate study. (1-3)
81TV Diagnostic and Corrective Instruction (3) This course is designed for students in education who wish to become better informed about the student's daily progress programs for elementary school children and corrective techniques for overcoming such problems.

82TV Improvement of Instruction in Elementary Social Studies (3) This course is designed for students in education who wish to become better informed about the student's daily progress programs for elementary school children and corrective techniques for overcoming such problems.

821V Improvement of Instruction in Elementary Mathematics (3) An examination of the philosophy, content, methods, and materials of modern mathematics programs for the elementary school. The needs and backgrounds of the students enrolled during the semester are given special consideration.

822V Improvement of Instruction in Social Studies (3) This course is designed for those professionals who are interested in the "New Social Studies." Curriculums, instructional strategies and research applicable to this topic will be explored.

840V Innovations and Developments in Educational Leadership (3) A study of the philosophy, current and historical elements of curriculum development, and methods in the preparation for those students teaching or desiring to teach in this field. Prerequisite: Permission of the instructor.

843V Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language classification, phonetics, phonology, morphology, syntax, and semantics as well as semantics, lexicography, and the history of the English language. Prerequisite: Permission of advisor and satisfactory completion of EEd 817v, practicum in elementary education.

99TV Thesis (1-6) Independent research project required of all students taking master of arts degree. See major advisor.

English

415/815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels in translation. (Same as French 415/815M and German 415/815M) Prerequisite: Permission of the instructor.

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

818M Mexican American Literature (3) A study of the characteristic of Mexican American literature. Conducted in English with English translations. Prerequisite: Permission of the instructor. (Same as Spanish 418/818M)

419/819M Comparative Studies in French-Anglo-American Literature (3) A comparative study of selected works in French, English and American literature. Conducted in English with English translations. Prerequisite: Permission of instructor. (Same as French 419/819M)

832M Middle English Literature (3) A survey of the principal writings in English, excluding those of Chaucer, as far as 1500. Prerequisite: Permission of instructor.

433/833M Sixteenth Century Literature (3) Poetry and prose of the English Renaissance, especially the Elizabethan age. Prerequisite: English 415/815M or permission.

434/834M Seventeenth Century Literature (3) Poetry and prose of the English Restoration, especially the Restoration of Charles II. Prerequisite: English 433/833M or permission.

850M Shakespeare's Contemporaries (3) A study of the development of the English drama, excluding the work of Shakespeare, from the beginning of the Elizabethan era to the Restoration (1642).

851M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language classification, phonetics, phonology, morphology, syntax, and semantics as well as semantics, lexicography, and the history of the English language. Prerequisite: Permission of advisor and satisfactory completion of EEd 817v, practicum in elementary education.

860M Shakespeare (3) A critical study of selected comedies, histories and tragedies by Shakespeare. Prerequisite: English 458/858M or permission.

875M Rhetoric (3) A study of contemporary theories of invention, form, style and their application in written discourse, with special emphasis on such contemporary rhetoricians as Kenneth Burke, Rons Winterrowd, Edward P.J. Corbett, Fintenz Christensen, and others. Prerequisite: English 415/815M or permission.


881M Literature of the Romantic Period (3) Poetry and prose of the English romantic period. Prerequisite: English 415/815M or permission.

882M Literature of the Victorian Period (3) Poetry and prose (including the novel) from 1830 to 1900. Prerequisite: English 481/881M or permission.

883M English Language Literature (3) Readings in English literature from Shaw to Yeats to the present.

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

891M Contemporary Poetry of England and America (3) A study of the English and American poetry of the 20th century. Prerequisite: English 481/881M or permission.

893M American Poetry (3) The practice and theory of American poetry from the colonial period to the present. Prerequisite: English 481/881M or permission.

99M Studies in Language and Literature (3) Specific subjects (when offered) appear in class schedule. Complete syllabus available in English Department.

945/895M Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures and major literary movements which have appeared since World War II.

946/896M Seminar: Linguistics (3) A seminar in a selected field or problem area of linguistic such as sociolinguistics, descriptive semantics, applied linguistics, descriptive linguistics, teaching English as a second language, etc. Prerequisite: English 458/858M and permission of the instructor.

947/897M The American Novel (3) A critical and historical study of the work of twelve or more significant American authors of the nineteen and twentieth centuries.

989M The American Drama (3) A study of the American drama and its theatrical background from the beginning to the present day, with concentration on the drama of the twentieth century.

801V Seminar: Introduction to Literary Research (3) A survey of the techniques and applications of the research process in literary criticism, with an emphasis on the critical study of the work of the contemporary American author. Prerequisite: Standing or permission of the chairman of the department of English.

804V Seminar: American Literature (3) Individual research and group discussion relating to a general topic in American literature. Prerequisite: English 458/858M. Course may be repeated for additional credits under different topics.) Prerequisite: Graduate standing or permission of the chairman of the department of English.

809V Seminar: In the English Renaissance (3) A seminar in a few significant literary figures of the English renaissance and their significance in the history of the English language. Prerequisite: Standing or permission of the chairman of the department of English. Prerequisite: Graduate standing or permission of the chairman of the department of English.

800V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English authors and works of the Restoration and the Augustan Age (1660-1750). Prerequisite: Graduate standing.

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

812V Seminar: Shakespeare (3) Critical analysis of ten tragedies or ten comedies of Shakespeare.

813V Special Topics Seminar in English (3) An intensive study of one or more authors, genres, literary movements or literary education. Prerequisite: Graduate standing or permission of the instructor.
114V Seminar: John Milton (3) Intensive seminar on works of John Milton and investigation of specific critical and scholarly problems. Prereq: Graduate standing or permission of the instructor.

820V Seminar in Middle English Literature (3) Readings in writings in Middle English. Prereq: Graduate standing and one course in Middle English language or writings.

113V Seminar in Drama (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate standing and one course in Middle English language or writings.

89V Independent Study (S) Specialized planning and reading in a chosen 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 regular curriculum. Instruction to be determined capability of working independently. May be repeated for credit for a total of 12 credits. Prereq: Permission of the instructor, admission to candidacy, and no incomplete outstanding.

105 Thesis (1-4) Independent research project written under the supervision of an advisor.

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

Foreign Languages and Literature

French

415/815M Contemporary French and German Novels (3) Comparative study of selected contemporary French and German novels. Conducted in English with English translations. Prereq: Consent of French students. Prereq: Permission of the instructor. (Same as German 415/815 and 415/815M).

417/817M Contemporary French and Ger­man Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in German for German students. Prereq: Permission of the instructor. (Same as French 417/817M and 415/815M).

418/818M Contemporary French and German Literature of the 19th Century (3) Survey of the literature of the nineteenth century from Romanticism to Naturalism. Prereq: For 417, German 303 or permission of the instructor. (Same as French 417/817M).

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

432/832M German Literature of the 20th Century (3) Survey of the literature of the twentieth century from the literature of World War II. Prereq: For 432, German 303 or permission of the instructor. (Same as German 432/832M).

433/833M German Civilization From the 18th Century To The Present (3) Study of the development of German art, architecture, literature, music, and philosophy. Influence of the sciences and of German civilization and culture. Prereq: For 432, permission of the instructor. (Same as German 433/833M).

439/839M German Novel (3) Survey of the German short story, its historical origins, characteristics, Prereq: 430 or permission of the instructor.

440/840M German Novelle (3) Survey of the German short story, its historical origins, characteristics, Prereq: 430 or permission of the instructor.

441/841M German Drama (3) History of drama development, study of several of the more important playwrights. Prereq: 303 or permission of instructor.

442/842M German Literature of The Seventeenth Century (3) The principal dramatic, epic lyric works of 17th century German literature. Prereq: 430 or permission of instructor.

455/855M German Literature of The Eighteenth Century (3) A study of representative authors of the enlightenment, storm and stress, and German classicism: Lessing, Herder, Schiller, and Goethe. Prereq: Permission of instructor.

456/856M German Literature of Modern Times (3) The major works of significant 20th century German literature. For 456, junior standing or permission; for 456M, graduate standing or permission.

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

490/890M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topics but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

496/896M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topics but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

498/898M Modern Novel of Spain (3) Analytical study of the representative Spanish novels of the nineteenth and twentieth centuries, from Romanticism to modernism. Prereq: Spanish 318 or permission of the instructor.

498/898M Modern Drama of Spain (3) Idiologues, techniques, trends and influences of major Spanish dramatists of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

499/899M Bibliography and Methodology (1) An introduction to the basic bibliography and methodology of Spanish literature and language study. Prereq: Permission of instructor.

510/810M Theater of The Golden Age (3) Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina, and Calderon de la Barca. Prereq: For 410, Spanish 317 or permission of the instructor.

511/811M Novel of The Golden Age (3) Study of the major works of the sixteenth and seventeenth centuries, including such works as Lope de Vega, Tirso de Molina, Cal­deron de la Barca, and Don Quixote. Prereq: For 411, Spanish 317 or permission of the instructor.

514/814M Spanish Literature of The Twentieth Century (3) A Critical and analytical study of the foremost Spanish American drama­tists. Prereq: Permission of the instructor. Prereq: Spanish 322 or permission of the instructor.

518/818M Mexican American Literature (3) A study of representative works of Mexican American, Chicano, and American Indian writers, along with their cultural and historical antecedents. Does not apply toward foreign language requirement. Prereq: Permission of instructor (same as English 418/818M).

420/820M Spanish American Novel (3) Survey of representative novels and novellas of the Spanish American Short Story (3) Representative phase of the Spanish American Short Story from the nineteenth to the twentieth centuries. From Romanticism to current production. Prereq: Spanish 321 and 322 or permission of the instructor.

514/814M Spanish Modern Drama of Spain (3) Idiologues, techniques, trends and influences of major Spanish dramatists of the nineteenth and twentieth centuries, from Romanticism to modernism. Prereq: Spanish 318 or permission of the instructor.

520/820M Spanish Modern Novels of Spain (3) Analytical study of the representative Spanish novels of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

525/825M Spanish American Literature (3) Idiologues, techniques, trends and influences of the American Spanish writers. Prereq: Spanish 318 or permission of the instructor.

525/825M Survey of the Spanish Short Story (3) Selected stories by major Spanish authors from the sixteenth century to the present. Prereq: Spanish 318 or permission of the instructor.

525/825M Spanish Short Story (3) Selected stories by major Spanish authors from the sixteenth century to the present. Prereq: Spanish 318 or permission of the instructor.
and real fluid flow; Eulerian and Langrangian equations of motion; potential theory; conformational transformations; turbulent flow; boundary layer theory. Prereq: Geol 318, Math 235.

480V Environmental, Spatial, and Social Analysis (3) Investigation of the basic theories and techniques associated with the study of space and the elements of urban systems and urban planning. Use of analytical tools to measure such factors as strain, location, place, mother-child, and spatial interrelationships. Prereq: Geol 490 or permission.


818V Similitude (3) The principles and illustrations of dimensional methods, similarity and model testing, and dimensional analysis. Applications to structures, fluid flow, heat transmission, electromagnetic theory, acoustics and chemical engineering, differential equations and similarity. Prereq: Permission.

820V Engineering Vibrations (3) Systems with one degree of freedom; systems with nonlinear and nonhomogeneous characteristic equations; systems with several degrees of freedom; vibrations of elastic bodies. Prereq: Math 235, advanced math for engineers.

Geography and Geology
401/801M Conservation of Natural Resources (3) A study of physical, cultural, and human review of resource systems with emphasis on the United States. Includes the history of conservation in the U.S. the role of philosophy behind the concept, current conservation practices and problems, and the direction in which resource use and conservation moving. Prereq: Permission.

425/825M Landform Studies I (Geomorphology I) (3) Primarily a lecture course with quantitative analysis of moraines, streams, glaciers, and other landforms. The theoretical aspects of processes and conditioning factors which produce landforms. Should be regarded as first half of a two-semester landform studies course. Evolution of valley landforms. Prereq: Math 132, 133. For 825M, 2 hours of Geography and junior standing. Prereq: For 425, 4 hours of Geography.

426/826M Landform Studies II (Geomorphology II) (3) Seminar and lecture course on the theoretical and applied aspects of morphogenetic concepts. Discussion and application of landform processes. Emphasis on methodology and modern process-oriented geomorphology. Students will be expected to take a major field landform studies course. Prereq: For 826M, Geog 426 or junior standing. Prereq: For 826P, Geog 467, 470, 471.

432/832M Climatology (3) Includes a basic review of the major topics of climate, with emphasis on the various climatic classification; analysis of selected climatic regions; discussion of general climatic characteristics; status with several degrees of freedom; vibrations of elastic bodies. Prereq: Math 235, advanced math for engineers.

480V Environmental, Spatial, and Social Analysis (3) Computer techniques in mapping and analyzing areal data. Emphasis is placed upon computer analysis as input to various mapping and statistical programs. Prereq: Geog 353, and a course in computer programming.

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

412/812M Urban Geography (3) A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, growth, and urban morphology. Prereq: Junior standing. (Same as Econ 412/812M).

413/813M Geography of Manufacturing (3) A course which discusses methods of measurement and interpretation of various types of cities. Prereq: Junior standing. (Same as Econ 413/813M).

424/824M Geography of Manufacturing (3) Emphasis on manufacturers and their distribution. Various methods of manufacturing in the world. Emphasis will be upon contrasting the cities of the developed and developing areas. Prereq: For 424, 60 hours of geo or junior standing and urban geo. For 824M, 6 hours of geography.


862V Geography Concepts: Quantitative Methods (3) The understanding and appreciation of quantitative measurements and numerical analysis as applied to geography. Prereq: Permission.

864V Seminar in Educational Geography (3) A survey of methods, instruction aids and goals of educational geography. Designed to aid the teacher in the improvement of geographic instruction in the elementary and secondary schools as well as his higher education. Prereq: Permission.

814V Cultural Geography (3) The philosophical basis of human and cultural geography, interpretation of the cultural landscape. Prereq: Permission.

815V Geography of Agriculture (3) A systematic study of the economic geography of agriculture on a world wide basis. Prereq: Permission and Geog. 301 or junior standing.

816V Advanced Geomorphology (3) A seminar and lecture course on the current concepts and literature of geomorphology. Emphasis is placed on landform studies. Discussion will emphasize classic ideas as well as the development of modern morphogenetic concepts and quantitative geomorphology. Some study of new school concepts will be included. Prereq: Permission. (Same as Econ. 881V and PA. 881V).

855V/884V Interdisciplinary Seminar On The Urban Community (3) A seminar and lecture course on the metropolitan community in which various shares of urban community planning are offered. Prereq: Permission of the instructor. Prereq: Undergraduate major in one of the social sciences (Anthropology, Economics, Sociology) or a graduate major in one of the social sciences. (Also listed under economics, political science, and sociology).

899 Thesis (1-6) Independent research project written under the supervision of a qualified instructor. Prereq: Graduate standing.

821 Seminar in Problems in Political Geography (3) Case studies in the methodology of political geography. Review of important studies in political geography. Prereq: Permission and Geog. 301.
410/810M Gerontological Gerontology (3) An introduction to the field of education for and about older adults. The purposes and functions of education will be analyzed to determine their relationship to the needs of individuals who are young and those who are aging.

411/811M Applied Social Gerontology (3) An introduction to social gerontology with a special emphasis upon the effects of aging on social interactions, human development and on examination of practice-oriented implications. Prereq: 3 hrs. of Sociology (Same as Sociology 411)

835M Issues in Aging (3) This course is intended for students in Gerontology and in other fields who are interested in a humanistic approach to understanding significant issues concerning aging will be considered. Prereq: 3 hrs. of gerontology or permission.

446/846M An approach to understanding significant issues concerning aging will be considered. Prereq: 3 hrs. of Gerontology or permission.

448/848M Comparative Gerontology (3) The study of aging around the world by a comparative method in a cross-cultural and cross-national framework. An examination of some similarities and differences in Europe, Asia, and Africa will be examined. Prereq: Permission of instructor.

450/850M Gerontology (3) The study of psychological, sociological and physiological factors that influence the health of the aging, with particular emphasis given to biological and social factors related to specific health and disease disorders. (Same as HED 455)

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 and social factors related to specific health and disease disorders. (Same as HED 455)

494/894M Practicum (0-6) This course provides the opportunity to students to gain experience in working with elderly people, to obtain guidance concerning various relationships with agency, staff, and clients; and to develop a broad knowledge of the field of aging. Prereq: Nine hours of Gerontology or permission.

498/898M Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills as part of the counseling process. Prereq: Permission of instructor.

812V Practicum in Gerontology (3) An interdisciplinary development of the impact of aging upon individuals and society, including the subsequent reaction of society to aging, with particular emphasis given to changes during the later half of the life cycle (45 years). Both theoretical and programmatic implications of aging research are considered. (Same as Sociology 121V) Prereq: 9 hrs. of gerontology and permission.

Health, Physical Education and Recreation

General HPER

400V Special Studies (1-3) A series of intensive courses scheduled as regular seminars, workshops, according to purpose. Prereq: Permission of department.

430V Research in Health, Physical Education and Recreation (3) An introduction to the nature and scope of research in HPER. Emphasis will be given to research methodology and evaluation, specifically the planning, design, and implementation of research projects in the classroom. Prereq: Permission of instructor.

820V讶 Health Aspects of Aging (3) The course will cover the study of current problems and issues in college, secondary, and elementary physical education programs. Special emphasis is given to problems that relate to the general aims and purposes of physical education.

825V Sport in American Culture (3) The course is a study of sport and the ways in which it influences people in America.

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

827V Supervision of Recreation (3) A course designed to introduce the student to the field of supervision. Prereq: For 827V, at least 9 hours of upper division courses in recreation or permission of the instructor.

430/830M Recreation Programming (3) An advanced study of recreation planning and programming through practical application of research techniques utilizing needs assessment, case study and compiling study results. Prereq: For 430, recreation major or permission of instructor. For 830M, undergraduate recreation major or minor or permission of the instructor.

457V Outdoor Recreation Resource Planning (3) The study of the management of outdoor recreation resources. Emphasis will be given to the recreation management process. Prereq: Permission of instructor.

855V Recreation Programming for The Mentally Ill and The Mentally Retarded (3) Designed to explore recreational programming for the mentally ill and the mentally retarded (children, adolescents and adults) in institutions, residential facilities, day treatment centers and the community. Prereq: Permission of instructor.

883V School Foreign Language Education (3) A study of the modern foreign language program in schools. Prereq: 1600-1840

894/894V Gerontology and Physiology of Exercise (3) A study of the major physiological changes that occur in the body and their response to exercise and the exercise programs designed to meet the physiological demands of individuals. Prereq: Permission of instructor.

895V Social Studies in Education (3) An overview of the educational process and current issues and problems in society as it relates to the teaching-learning process. Prereq: Permission of instructor.

History

313/813 African American History (3) A study of the background of settlement, and development of the Black community in America. Prereq: 313, junior standing or permission of the instructor.

315/815 The American Frontier: 1600-1840 (3) A study of the frontier systems of the third...
144/844 History of the South (3) Economic, social, and political development of the south as a region. Prereq: For 341, junior standing or permission of the instructor.

34/844 History of the South (3) Economic, social, and political development of the south as a region. Prereq: For 341, junior standing or permission of the instructor.

353/853 Medieval Europe, 284-1055 (3) Establishment and development of the medieval church and feudal society from the decline of the Roman empire to the beginning of the Crusades. Prereq: For 353, junior standing or permission of the instructor.

354/854 Medieval Europe, 1095-1492 (3) Religious, social, economic, philosophic and institutional developments of the era extending from the Crusades and the investiture struggle through the waning of the middle ages. Prereq: For 354, junior standing or permission of the instructor.

355/855 The Age of the Renaissance (3) An introduction to the economic, social, political, religious, and intellectual changes and the flowering of art, music, literature, and authors, and artists of the period extending roughly from 1300-1550. Prereq: For 354, junior standing or permission of the instructor.

364/864 History of the British Empire and the United States to 1815 (3) A military, social, political, and historical survey of the development of the United States from the founding to the end of the nineteenth century. Prereq: For 354, junior standing or permission of the instructor.

24/844 The Emergence of Modern America: 1777-1801 (3) A study of a transitional period in American history. American Revolution (1777-1783); War of 1812; Western expansion; westward movement; new world power. Prereq: For 424, junior standing or permission of the instructor.

24/854 Intellectual History of Modern Europe From the Renaissance to the French Revolution (3) A study of the intellectual thought movement in European history. Prereq: For 424, junior standing or permission of the instructor.

24/855 Intellectual History of Modern Europe From the Enlightenment to the Nineteenth Century To the Present (3) A study of the intellectual thought movement in European history. Prereq: For 425, junior standing or permission of the instructor.

24/864 Twentieth Century America Since 1932 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 426, junior standing or permission of the instructor.
823M Economic History of the Western World to 1850 (3) This course discusses the evolution of capitalism and capitalistic forms of business, the West during the sixteenth century, mercantilism, and the process of industrialization. Prereq: 823L. In addition, attention will be given to related demographic, social, institutional, and intellectual developments. Prereq: Graduate standing.

824M Economic History of the Western World Since 1850 (3) This course discusses capitalism and its general acceptance in the western world and those modifications and criticisms which have emerged over the past century and a quarter. In addition, attention is given to the relations among the advanced industrial nations and between the less developed nations. Appropriate related demographic, social, institutional, and intellectual developments are also presented. Prereq: Graduate standing.

826M Advanced Research Project in History (1-11, S) Special problems in advanced research in history, arranged individually with graduate students.

830V Historical Research (1) (3) The critical method in collecting and organizing historical materials which is basic to the techniques of verification, evaluation and organization of facts; the problems of writing and a critical method of writing, styling and printing the product. Prereq: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 493 or equivalent.)

831M Great American Historians (11) (3) A survey of the history of American historical writing from colonial times to the present. Reports to be submitted daily and every other week. Prereq: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 493 or equivalent.)

837V Great European Historians (1) (3) A survey of the history of European historical writing from the Roman era to the Renaissance. Prereq: based on selected readings.

849V/949 Seminar in American History. Readings and research in selected topics of American history. This course will be offered at the 900 level when taught by a Graduate Faculty Fellow.

852L Thesis (1-11, S) (4-6) Thesis research project written under supervision of an advisor.

Home Economics

Education and Family Resources 860V Family Economics (3-6) Philosophy and objectives of the project and the family. The family is a social unit. Prereq: Graduate standing. (Recommended for students enrolled in selected courses.)

863M Seminar in Educational Research (3) A study of the project and the family in the context of the social problems and application to the special setting in which learners serve as role of educator. Prereq: 12 hours economics and permission of associate dean.

Food and Nutrition

450/853C Cultural Aspects of Diet (3) Cultural and economic aspects of dietary patterns of various population groups. Emphasis on the role of diet in health and sickness. Prereq: FdnSci 241, 9 hours social science and permission of instructor.

933 Ecology of Malnutrition (3) (Fundamental) Underlying principles involved with the supply and demand of food in different countries. Prereq: permission of instructor.

Human Development and The Family

455/855 Nutrition Through the Life Cycle (3) Influence of nutritional physiology and nutrition throughout the life span including pregnancy, infancy, childhood, adult life, and aging. Prereq: 3 hours nutrition, 3 hours human development and family science, 6 hours natural science or permission of instructor.

460/860 Parent Education With Field Experiences (3) Review of research related to the role of parents in America and to programs on parent management and family socialization in dynamics of group discussion, child development and family relations to the class and field experiences. Lect lab arr. Same as Com 860m. Prereq: HumDev 270, 380 or equivalent or permission of instructor.

463/863 The Child and Family in The Community (3) Basic principles and practice of community work and the role of the community worker in helping the child and family. Prereq: permission of instructor. Lect lab arr.

Textiles, Clothing and Design

481/816 Principles of Tailoring (3) Theory of tailoring, the design factors and the specific details of each garment. Prereq: 12 hours textiles, clothing and design, including TCD 103. (F)

482/822 Professional Study Tour - Internationals in Domestic A. Heritage of Fashion Interior Design (1-6 credit each, per semester, maximum 12) A learning experience for broadening the scope of experience and understanding of the heritage of fashion or interior design. The experience includes visits to museums, garment manufacturers and retail establishments in New York City, Paris, London, Rome, Florence, Milan, Venice and Cote d’Azur. Prereq: 12 hrs. textiles, clothing and design permission of instructor.

808 History of Textiles (3) A study of the historic role of textiles in the artistic social, and economic development of various cultures. Prereq: 12 hours textiles, clothing and design, 3 hours history or permission of instructor.

Mathematics and Computer Science

Computer Science

311/811 Information Systems Analysis (3) Design and programming processes, system life cycle, logical and physical system design. Prereq: CS 712 or CS 722.


322V Advanced Programming Techniques (3) The analysis and composition of advanced programs used with contemporary computers. Prereq: CS 321 or CS 322.


332V/832J Data Structures (3) List processing, list processing languages, representation and storage of trees and graphs, sorting and searching. Prereq: CS 332.

345/845J File and Communications Systems (3) Functions of file systems and communication systems with emphasis on system information system. Prereq: CS 322.


422/822M Programming Languages (3) Definition of programming languages, scope of research and major languages. Global properties of algorithmic languages including scope of declarative programming, the allocation, grouping, organization of programs, and the development of statements, binding time. Subroutines, coroutines, and tasking. Comparison of several languages. Prereq: For 422, CS 220 and 235. For 822M, CS 365.

430/830M Linear Programming (3) An introduction to linear programming and applications. Prereq: CS 350.


456/856M Systems Programming I (3) Operating system principles, processes, processes. Details on addressing techniques, interprocess design, and system accountability. Prereq: CS 322 and Math 453 are recommended.


480V Information Organization and Retrieval (3) Information language processing as related to the design and implementation of information systems, including techniques for organizing, storing, retrieving, and retrieving structured and unstructured information on digital computers. Prereq: CS 322 (345 recommended).

Mathematics


350/850L Selected Topics in Mathematics (1-6) A variable content course in selected topics in the mathematical sciences which may be of interest to students in other disciplines such as mathematics education, psychology, and business. The course may be taken more than once for credit provided topics differ, with a maximum credit of 9 hours. Mathematics majors may apply no more than 3 hours of these courses toward the minimum major requirements. Math 850L does not apply to the minimum major requirements in mathematics. Prereq: Permission of instructor.


An introduction to abstract algebra to include: tary proofs will be discussed. Prereq: Math 201 or permission of the instructor.

141-442/811M-812M Abstract Algebra (Each 3) An advanced undergraduate (beginning gradu- cal system; topology of the real line; limits; functions of one variable; continuity, differenti- 

142/428M Mathematical Analysis II (Each 3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables: continuity, partial differenti- 

149-423M Complex Variables (Each 3) Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continu- 

150/423M Theory of Ordinary Differential Equations (3) Ordinary differential equations with a theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables: continuity, partial differenti- 

151 Advanced Topics in Algebra (3) Prereq. Math 423 or advanced calculus.

152-560M Tensor Analysis (2) A review of vec- tor analysis, study of bidimensional space tensors, (1) (3) (1-3) (1-3) An introductory course devoted to the classical theory and prob- 

153-561M Advanced Topics in The Foundations of Calculus (3) Logic, the axiomatic method, properties of axioms, systems, theory, cardinal and ordinal numbers, metamathematics, con- struction of the real number system, historical development of the number system, recent developments. Prereq: For 441, senior standing.

159/431M Theory of Numbers (3) Congru- ences, quadratic reciprocity, Diophantine equa- 


165/454M Probability and Statistics II (3) Point estimation, confidence intervals, testing of sta- 

166/455M Classical and Romantic Music Literature (3) Study of representative compositions from romantic and baroque periods. Written project. Prereq: 6 hrs. of undergraduate music history and permission.

167/465M Philosophy of Mind (3) A discussion of various accounts of the nature of minds which focuses upon issues concerning the character of mental entities such as whether the mind is identical with the brain, the extent of similarities between human minds and animals, whether there are multiple minds or identities, and the relationship of mental activity to behavior and perception. 

170/471J Introduction to Modern Algebra (3) An introduction to abstract algebra to include: groups, rings, and fields. Examples and elementary proofs will be discussed. Prereq: Math 201 or permission of the instructor.

171-473M Advanced Ordinary Differential Equations (Each 3) Existence, uniqueness, continuity and uniqueness theorems, systems of linear equa- 

190/491M Topics in Finite Mathematical Structures (3) An introductory course to include: set theory, basic combinatorics, elementary graph theory, elementary number theory, abstract algebras with applications. Prereq: Has second- 

221 Mathematical Analysis (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables: continuity, partial differenti- 


246/451M Advanced Topics in Algebra (1) (3) A study of the homomorphisms of one or more of the classical groups, Lie groups, the theory of unitary linear groups, and homogeneously, connectedness, compactness, analysis on metric spaces. Prereq: Permission of instructor, 862V required for 863V. 862V to be offered in the spring of even-numbered years. 

251-562M Probability and Statistics I (3) Probability models, discrete and continuous. Prereq: Math 197 and at least one math course numbered 300 or above.

270/470J Introduction to Modern Algebra (3) An introduction to abstract algebra to include: groups, rings, and fields. Examples and elementary proofs will be discussed. Prereq: Math 201 or permission of the instructor.

271-473M Advanced Ordinary Differential Equations (Each 3) Existence, uniqueness, continuity and uniqueness theorems, systems of linear equa- 

272 Musical Aesthetics (1) The history and philosophy of music. Prereq: Consent of instructor.

278 Psychoanalytic Methods (3) Study of the psychoanalytic tradition, with an emphasis on Freudian theory and its implications for theory and praxis. Prereq: Consent of instructor.

298 Elective Level (1-3) Elective level courses may be offered as an Independent Study course (3 credits) or as an Independent Study course with a project (1-3 credits). To be repeated one credit hour. Prereq: Approval of instructor. 

319/411M Elements of Electrodynamics (3) The back- ground of theory, operation, and practice of electronic devices; historical and present-day circuitry particularly as they apply to scientific instruments, electronic measuring instruments, solid state and vacuum tube principles and cir-
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987V Readings in Political Science (3) Specialy directed study in political science for the graduate student who encounters scheduling conflicts due to the addition of his degree program, or who has special preparatory needs and/or interests. Prereq: Permission of the political science department to be capable of pursing a highly independent course of study. Prereq: Permission of graduate advisor.

987S Thesis (3-6) A research project, written under the supervision of a graduate advisor in the Department of Political Science, in which the student establishes his capacity to design, conduct, and complete an independent, scholarly investigation of a high order of originality. The research topic and the completion plan must be approved by the student's departmental committee. Prereq: Permission of graduate advisor.

Psychology

417/817M History of Psychology (3) A study of the origins, development, and nature of psychology and its relation to external events; emphasis on the period since 1875. Prereq: For 417, junior standing.

418/818M Theoretical Concepts in Psychology and The Behavioral Sciences (3) An introductory course examines the applications of the behavioral sciences to psychology and education. Includes a functional description of common concepts in the psychology of learning and behavior. Prereq: Psychology 213 or equivalent.

427/827M Psychological and Educational Testing (3) The use of standardized tests in psychology and education, special regard to their construction, reliability, and validity. Prereq: Psychological and Education Psychology 213 or equivalent.

431/831M Individual Differences (3) A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in causation of individual differences in mental traits. Prereq: 9 hours of psychology, including Psychology 101 and Psychology 213 or equivalent.

445/845M Psychology of Exceptional Children (3) A study of the special problems of children with visual, auditory, or neurological impairments, orthopedic anomalies, intellectual retardation, and special preparatory needs and/or interests. Prereq: Psychology 445 or equivalent.

459/859M Psychology of Exceptional Children (3) A course in the special problems of children with emotional, learning, or developmental disabilities and cultural deprivation; and the characteristic relationships of parents, professionals, and others to these children. Prereq: Psychology 430 or equivalent.

461/861M Engineering Psychology (3) The methods of experimental psychology customarily used to relate people to problems of designing machines for efficient human use. Prereq: Psychology 101 and permission of instructor.

463/863M Research Design (3) An introduction to methods and technology in construction and use of teaching machine programs, with special emphasis on computer assisted instruction. Prereq: Psychology 101 and permission of instructor.

805V Seminar in Social Psychology (3-6) A seminar in social psychology. Prereq: Psychology 431 or equivalent.

806V Seminar in Social Psychology (3-6) A seminar in social psychology. Prereq: Psychology 431 or equivalent.

817/817M Cognitive Processes: Thinking and Imagination (3) An examination of historical and contemporary research and theory concerning higher cognitive processes including concept formation, problem solving, creativity, and language. Prereq: For 817M, Psychology 301 or 904.

413/813M Research Design (3) Methods for the research process, including the evaluation of information in psychology with an emphasis on the design of experimental research. Prereq: Psychology 213 or equivalent. (Same as Anthropology 913M).

425/825M The Limits of Consciousness (3) A survey of theories, practices and research on altered and altered-state consciousness. Emphasis on the experiential as well as intellectual proficiency. Prereq: Psychology 213 or equivalent.

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

485/885M Genetics (3) This course considers the history of genetics. The focus will be on the development of middle years to later years rather than the infant, pre-school, adolescent, and young-adult years. Prereq: Nine hours of psychology, including Psychology 427/827M or permission of the instructor. (Same as Genetics 485).

495/895M Psychology of Exceptional Children (3) A study of the special problems of children with visual, auditory, or neurological impairments, orthopedic anomalies, intellectual retardation, and special preparatory needs and/or interests. Prereq: Psychology 445 or equivalent.

810V Special Topics in Social Psychology (3) A course involving the study of selected topics not covered in the regular offerings. Prereq: Permission of instructor.

831V Advanced Educational Psychology (3) A study of the principles in educational psychology and their applications to problems of contemporary educational participation, particularly those arising from problems existing in the classroom. Prereq: Psychology 351.

883V Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree in Psychology 431/831 or 832V and admission to either psychological or school psychology program.

884V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree in Psychology 431/831 or 832V and admission to either psychological or school psychology program.

885V Introduction to Cognitive Techniques With Children (3) The purpose of this course is to become familiar with play therapy, a technique for enhancing the cognitive development of children. Prereq: Permission of instructor.

886V Learning in Children (3) A course dealing with learning in infants, children, and adolescents. Prereq: Permission of instructor. Prereq: Psychology 101 or 904, and permission of the instructor.

887V Social Psychology (3-6) A study of the social psychology of children. Prereq: Psychology 431 or equivalent.

888V Social Psychology (3-6) A study of the social psychology of children. Prereq: Psychology 431 or equivalent.

889V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication with emphasis on theoretical models and their applications to social and personal interests. Prereq: Psychology 212 or equivalent or permission of instructor. (Same as Speech 889V).

891V Advanced Educational Psychology (3) A study of the principles in educational psychology and their applications to problems of contemporary educational participation, particularly those arising from problems existing in the classroom. Prereq: Psychology 351.
course. All students will be expected to design and conduct a mini-observational study in the area of social and personality development.

96V Psychological Aspects of Work (3) A course providing comprehensive coverage of psychological theory and research concerning the psychological analysis of theoretical and experimental issues and problems involved in preparing individuals for work. Prereq: Graduate standing, any depart-ment, or by permission of instructor.

962V Psychological Aspects of Industrial Training (3) A course intended for students who wish to study and apply theory, techniques, and procedures involved in preparing individuals for jobs through training and education. Prereq: Psychology 362 and Psychology 213 or equivalent.

963V Graduate Psychology for School Psychologists (2) An advanced course in child psychology, with emphasis upon aspects of individual and group classification, refinement of approaches and techniques, and correction of problems both in the school and the home. Prereq: (Crosslisted with Psychology 588, University of Nebraska College of Medicine)

989V Problems in Psychology (1) A research seminar, involving research in a faculty supervised topic, involving either oral or written reports. Prereq: Written permission of the department.

989V Practicum in Industrial Psychology (1) A faculty supervised experience in an industrial or business setting designed to bridge the gap between the classroom and the job, emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Written permission of your practicum committee.

989V Practicum in Educational Psychology (1) A faculty supervised experience in an educational agency designed to acquaint the student with practical problems encountered by psychologists who work in an educational setting. Prereq: Written permission of your practicum committee.

99 Thesis (1-6) Independent research project written under supervision of a faculty committee. Prereq: Written permission of your major advisor.

90 Seminar in Psychology of Motivation (3-9) A topic area within the field of motivation will be exhibited in depth. Each semester, the specific topic will be selected to coincide with that of the Nebraska symposium on motivation. Students enrolled in the course will be expected to attend the symposium which is held in Lincoln. Prereq: Graduate standing, any department, or by permission of instructor.

90 Seminar in Psychology of Learning (3) A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of experimental data. Prereq: Permission of instructor.

90 Seminar in Multiple Regression and Factor Analysis (3) An advanced course in multiple regression and factor analysis. Prereq: Psychology 543 or Psychology 546 and permission of instructor.

90 Seminar in Perception (3) A course concerning the psychology of aging from a research perspective. The focus will be on the middle years to later adult years. Prereq: the infant, preschool, adolescent, and young adult years. The topics integrated research in psychology, aging and gerontology. Prereq: 12 hours of psychology or gerontology or permission.

96 Seminar in Developmental Psychology (3) A comprehensive and intensive coverage of the experimental work on human and infrahuman development. Prereq: Permission of the instructor.

97 Applied Behavior Analysis (3) A comprehensive introduction to experimental behavior analysis. Topics covered include observational recording systems, reliability indices, procedural implementation of behavioral techniques, single subject research designs, and a broad review of the research literature. Prereq: 970 or 971 and permission of instructor.

97 Seminar in Applications of Non-Verbal Communication (3) A course providing a theoretical and applied approach to the study of non-verbal communication with and contributing to developmental problems. Prereq: Written permission of your major advisor.

97M Seminar in Applied Behavior Analysis (3-6 hrs) Laboratory work coordinated with concurrent course in Applied Behavior Analysis (3) consisting of the course with supervised work in experimental behavioral training, with and without animal models. Prereq: Permission of instructor.

97 Personality Assessment (3) A course dealing with a variety of techniques for evaluation of human personality. Prereq: 970 or 971 or permission of instructor.

98 Laboratory in Social Psychology (3-9) A laboratory designed to provide practical experience in social psychology. The course is offered each time a different topic is covered, up to a maximum of 9 credit hours. Prereq: Admission to a graduate program beyond the master's level and permission of the department.

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

Public Administration

440/940M Public Budgeting (3) A study of the process and procedures involved in setting budgets for governmental institutions. Prereq: For 440, P.A.I, senior standing. For 940M, P.A.17, senior standing.

443/943M Public Personnel Management (3) A study of the personnel problems encountered in governmental and public administration. The processes and problems of recruiting, selecting, training, and promoting public bureaucrats are examined as well as problems in personnel leadership, neutrality, accountability and performance. Prereq: 943, P.A.I, junior standing. For 943M, P.A.17.}

809V Seminar in The Research Methods of Po-

tics and Public Administration (3) A critical

evaluation of the methods of data col-

clection and analysis for political science,

and public administration research. (Also listed un-
der political science.) Prereq: 317, permission of

the instructor.

803U-804U Internship (3 per sm) Maximum of

6 to be granted upon completion of an

internship in some government:

National, state, local.

808V Survey of Public Administration (3) This

course introduces the student to public organ-

ization theory and functions and problems of

the public administration process.

This course does not count toward the 36

hours required for the MPA degree. Prereq: Course

in political science.

818V Seminar in Public Administration (3)

An in-depth study of the relationships existing be-

tween the art and science of public administration

in action, on the one hand, and the processes of

government on the other. The emphasis is

primarily on broad categories of political and

administrative issues as they condition each

other. Prereq: Permission of graduate advisor.

830V Seminar in Public Policy Analysis (3)

A study of the economic, social and political
determinants of public policy in terms of

administration, including the role of policy,

evaluation, the relationship of policy to

and evaluation of public policy.

Prereq: Permission of instructor.

839V Seminar in Metropolitan Planning

and Development (3) An overview of the pres-

ent status of planning in metropolitan areas

with special emphasis on structure of planning
departments, comprehensive plans, and prob-

tems of innovation. Prereq: Geo. 412 or recom-

mendation from pol sci, soc., or econ depart-

ment.

894V Seminar in Advanced Topics in Public

Administration (1-3) A pre-seminar on selected topics based

upon special needs of the particular course, as

selected options. Normally taught by outstanding

practitioners in the field. Prereq: Graduate

standing, permission of instructor, prior course

work and/or experience in the topical area.

895V Readings in Public Administration (3)

Specialized study related to administra-

for the graduate student who encounters

problems in the completion of his

degree program, or who has special preparatory

needs and who is adjudged to benefit from

an independent, highly intensive course.

896V Research in Public Administration (1-3)

The course will be oriented for advanced graduate

students in public administration. It is es-

sentially a research seminar for graduate

students who have had their internships waived and who

might profit more by in-depth research in public

administration than additional classroom courses. Prereq: 15

hours of graduate administration and per-

mission of faculty advisor.

Secondary/Post-Secondary Education

488V/882M Principles of Vocational Educa-

tion (3) A study of the basic philosophy underlying

economic and social problems and their

solution in the various fields. F.Su.

482V/882M Literature for the Adolescent (3)

This course is designed to analyze the

literature of the various areas of the

humanities and other classroom teachers to gain

insight into the teaching and viewing habits and interests.

Factors which may affect reading, good and bad, and

use of the various forms of format, will be exam-

ined. Cross-listed with 482V. Prereq: For 882M,

student must also be pursuing a degree in Foundations 207 and Psychology 351 and gradu-

ate standing.

485V/885M Coordination Techniques in Voca-

tional Education (3) Reviews responsibilities

and techniques of coordination for the voca-
tional teacher-coordinator and or vocational

counselor. Prereq: Permission of graduate

adviser.

835V Seminar in Foundations of Education (3) A critical

evaluation of the methods of data col-
clection and analysis for political science,

and public administration research. (Also listed un-
der political science.) Prereq: 317, permission of

the instructor.

808V Survey of Public Administration (3) This

course introduces the student to public organ-

ization theory and functions and problems of

the public administration process.

This course does not count toward the 36

hours required for the MPA degree. Prereq: Course in political science.

818V Seminar in Public Administration (3)

An in-depth study of the relationships existing be-

tween the art and science of public administration in action, on the one hand, and the processes of government on the other. The emphasis is primarily on broad categories of political and administrative issues as they condition each other. Prereq: Permission of graduate advisor.

830V Seminar in Public Policy Analysis (3) A study of the economic, social and political determinants of public policy in terms of administration, including the role of policy, evaluation, the relationship of policy to and evaluation of public policy. Prereq: Permission of instructor.

839V Seminar in Metropolitan Planning and Development (3) An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of innovation. Prereq: Geo. 412 or recommendation from pol sci, soc., or econ department.

894V Seminar in Advanced Topics in Public Administration (1-3) A pre-seminar on selected topics based upon special needs of the particular course, as selected options. Normally taught by outstanding practitioners in the field. Prereq: Graduate standing, permission of instructor, prior course work and/or experience in the topical area.

895V Readings in Public Administration (3) Specialized study related to administration for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is adjudged to benefit from an independent, highly intensive course of study.

896V Research in Public Administration (1-3) The course will be oriented for advanced graduate students in public administration. It is essentially a research seminar for graduate students who have had their internships waived and who might profit more by in-depth research in public administration than additional classroom courses. Prereq: 15 hours of graduate administration and permission of faculty advisor.

Secondary/Post-Secondary Education

488V/882M Principles of Vocational Education (3) A study of the basic philosophy underlying vocational education and social problems and their solution in the various fields. F.Su.

482V/882M Literature for the Adolescent (3) This course is designed to analyze the literature of the various areas of the humanities and other classroom teachers to gain insight into the teaching and viewing habits and interests. Factors which may affect reading, good and bad, and use of the various forms of format, will be examined. Cross-listed with 482V. Prereq: For 882M, student must also be pursuing a degree in Foundations 207 and Psychology 351 and graduate standing.

485V/885M Coordination Techniques in Vocational Education (3) Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator and or vocational counselor. Prereq: Permission of graduate adviser.

835V Seminar in Foundations of Education (3) A critical evaluation of the methods of data collection and analysis for political science, and public administration research. (Also listed under political science.) Prereq: 317, permission of the instructor.
852V Foundations in Business Education (3) Designed to develop a deeper and broader understanding of business education and to examine its past, present, and future role in the total education pattern of our country and the world.

855V Seminar in Mathematics Education (3) A graduate seminar in K-12 mathematics education emphasizing curriculum development, curriculum planning and evaluation, research, mathematics supervisions, and contemporary issues in mathematics education. Prereq: Graduate standing and permission of instructor.

855V Improvement of Instruction of Secondary School Science (3) This course is designed for graduate students in education who wish to become better informed about the recently developed curriculum for secondary science. The methods, materials, philosophy, and emphasis instruction which are characteristic of these programs.

865V Science Education Seminar (3) A graduate seminar in science education emphasizing research, newly developed science curricula, curriculum planning, science supervisions, and contemporary issues in science education.

867V Trends and Teaching Strategies in Science Education (3) This course is designed for the graduate student whose study program emphasizes the teaching of science in secondary education. Its focus will be K-12 and is such as to meet the grad­uate student's needs in elementary and secondary education departments. The course will describe and examine past and present trends in science education including, teaching technologies, laboratory and instructional materials. Emphasis will be given to trends that have merit and relevance concerning today's students and teachers will be treated in depth.

975V Improvement of Instruction in Vocational Business Education (3) A course designed for teachers of vocational business education to provide information, methods, and techniques relative to current practices and trends in vocational business education.

870V Problems of Vocational Business Education (3) A study of the problems of business teachers of business education to develop a better understanding of the purposes, philosophies, current practices and trends in business education.

877V Vocational Curriculum Construction (3) A course for teachers of business education to provide an introduction to the principles, methods, and techniques of constructing curricula, and administrators of vocational education who are interested in the planning process. Topics include policies, needs, and factors, and trends that should be considered in developing a vocational education curriculum.

899V Supervisory Techniques in Education (3) A course designed to provide a working knowledge of the principles of educational supervision. The course will include an introduction to the role of the supervisor of education in teaching, the roles of the principal and supervisor, and the interrelationships of the various roles.

811V Seminar in Applications of Non-Verbal Communication Theory (3) Theories and research pertinent to the use of non-verbal communication and its analysis as it applies to business, education, supervision, counseling, therapy and interpersonal speech communication. In addition, the use of micro and macro social work practice. Prereq: SW 816, concurrent with or subsequent to SW 812, 814.

Micro Practice courses

820 Micro Intervention I (3) To provide the student with theories and techniques in recent supervisory roles which are used in working with individuals, families and small groups. Prereq: BA, Social Work major, SW 817, or permission.

821 Micro Intervention II (3) To provide the student with knowledge of theories and practice in techniques and modes of intervention and small groups with emphasis on particular settings such as mental health clinics, schools, and family service agencies. Prereq: SW 820 or permission.

830 Practice (3) To provide the student with knowledge of theories and techniques in recent supervisory roles which are used in working with individuals, families and small groups with emphasis on particular settings such as rural mental health clinics, schools, and family service agencies. Prereq: SW 820 or permission.

831 Practice (3) To provide the student with knowledge of theories and techniques in recent supervisory roles which are used in working with individuals, families and small groups with emphasis on particular settings such as rural mental health clinics, schools, and family service agencies. Prereq: SW 820 or permission.

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835 Practice (3) To provide the student with knowledge of theories and techniques in recent supervisory roles which are used in working with individuals, families and small groups with emphasis on particular settings such as rural mental health clinics, schools, and family service agencies. Prereq: SW 820 or permission.

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845 Practice (3) To provide the student with knowledge of theories and techniques in recent supervisory roles which are used in working with individuals, families and small groups with emphasis on particular settings such as rural mental health clinics, schools, and family service agencies. Prereq: SW 820 or permission.
Sociology

Anthropology

421/821M Cultural Anthropology (3) An introduction to the study of human societies as parts of a whole, of their environment, and of their culture. Prereq: Permission of the instructor. (Same as Anthropology 421.)

422/822M North American Archaeology (3) A study of the Indian culture history in North America, with emphasis on the peopling of the New World, origin and development of new world agriculture, development of middle American civilizations, and their impact on core areas of village-farming in the continental United States. Introduction to archaeological investigations and associated critical methodological, theoretical, and theoretical methodological, and taxonomic concepts. Prereq: Permission of the instructor. (Same as Anthropology 422.)

424/824M Psycholinguistics (3) A discussion of the relationship between language and thought, with special emphasis on language and thought as variables in sentence structure, meaning, and speech sounds. Prereq: Senior or graduate standing or permission of the instructor. Recommended: Anth. 105. (Same as Psychology 424 and Comm. 425.)

425/825M Seminar in Anthropological Problems (3) A seminar designed to help students to pursue individual interests in various aspects of anthropology. Emphasis is placed on the student's development of independent study, research, and presentation of work. Prereq: Senior or graduate standing or permission of the instructor. (Same as Anthropology 425.)

430/830M Advanced General Sociology (3) A course designed to allow students to pursue individual interests in various aspects of sociology. Prereq: Senior or graduate standing or permission of the instructor. (Same as Sociology 430.)

431/831M The Community (3) A basic course in community sociology. Sociology theory and research are applied to published studies of communities in the United States and elsewhere. The comparative social scientific methods are elaborated in an introductory manner. Prereq: Junior or senior standing. (Same as Sociology 431.)

432/832M Social Gerontology (3) An examination of the aging processes and their social implications. Prereq: For 432, 9 hours of sociology. Prereq: For 832, permission of the instructor.

435/835M Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural and subcultural misinterpretations, with the purpose of bringing to awareness those factors which may disturb communication in cross-cultural situations. Prereq: 435, standing and permission of the instructor. (Same as Anthropology 835.)

440/840M Social Psychology (3) Theories and methods of social psychological investigation. Prereq: 440, 9 hours of sociology including Sociology 101 or 403. For 840, permission of the instructor. (Same as Psychology 440.)

441/841M Applied Social Gerontology (3) An examination of the relationship between aging and social institutions and their impact on social problems. Prereq: 441, senior standing. (Same as Sociology 441.)

442/842M Urban Geography (3) A geography of the city, the viewpoint of history, life, and situation, external relations, internal relations, and the recreational life of the city. Prereq: For 442, junior standing. For 842, permission of the instructor. (Same as Geography 442 and Economics 442.)

443/843M Seminar in Deviant Behavior (3) A seminar designed to allow students to pursue individual interests in various aspects of deviant behavior and subcultures to community standards of conventional behavior as expressed in law and norms. Prereq: For 443, 9 hours of sociology, including Sociology 101 or 403. For 843, permission of the instructor. (Same as Sociology 443.)

444/844M Seminar in Social Work (3) (3) Emphasis is placed on the utilization of various institutional, program design and effectiveness, and social impact will be covered. Prereq: Senior or graduate standing or permission of the instructor. (Same as Sociology 444.)

450/850M American Family Problems (3) A discussion of the issues and the impact of social change illustrated by use of excellent historical and contemporary studies. Emphasis is placed on understanding social and economic changes in American society and the rising importance of social forces in our society. Prereq: For 450, Sociology 101 or 403, and 6 hours of sociology history. For 850, permission of the instructor.

451/851M Sociology of Religion (3) Analysis of religious behavior from an anthropological, sociological, and psychological point of view. Included will be an analysis of failures of function and attendant problems in a variety of American families: Parenthood, kinship, marriage, conflict, conflict, conflict, others. Prereq: 9 hours sociology, including Sociology 101 or 403, and 301. For 851, permission of the instructor.

452/852M Contemporary Sociology (3) A topi­cal seminar focusing on the sociology of aging, urban sociology, gender and urban development, and planning. Prereq: Permission of instructor.

475/875M Social Change (3) A discussion of the theories and the impact of social change illustrated by use of excellent historical and contemporary studies. Emphasis is placed on understanding social and economic changes in American society and the rising importance of social forces in our society. Prereq: For 475, Sociology 101 or 403, and 6 hours of sociology history. For 875, permission of the instructor.

481/881M Sociology of Religion (3) Analysis of religious behavior from an anthropological, sociological, and psychological point of view. Included will be an analysis of failures of function and attendant problems in a variety of American families: Parenthood, kinship, marriage, conflict, conflict, conflict, others. Prereq: 9 hours sociology, including Sociology 101 or 403, and 301. For 851, permission of the instructor.

499/899M Independent Study (1-3) Guided reading in specific topics with written reports. Prereq: Senior or graduate standing and permission of the instructor. For 499, senior standing and permission of the instructor. For 899, permission of the instructor.

801V General Seminar in Sociology (3) This seminar, required of all sociology majors and min­ors, gives a basic orientation to the profession, its leading figures, publications, organizations, and university departments. It emphasizes critical discussion of issues in the discipline and selected substantive topics. Prereq: Permission of instructor. Prereq: Gradate standing and permission of instructor.

805V Seminar in Social Psychology (3-6) As a guide in reading, discussion, specialized individual work leading to the writing of a research project, students will be assigned a paper applicable to a general topic in social psychology selected by the instructor. As a seminar topics change, this course may be repeated for credit. Prereq: Permission of instructor.

810V Seminar in Applications of Sociology (3-6) Sociological theory and research are applied to practical problem of relevance to general social issues. As seminar topics change, this course may be repeated for credit. Prereq: Permission of instructor. Prereq: 875, permission of the instructor.

811V Social Problems of the Disadvantaged (3) A survey of the social problems of the disadvantaged communities. The effects upon individuals of such situations. The subculture of pov­erty. Prereq: Graduate standing and permission of instructor.

812V Seminar in Social Gerontology (3) A topi­cal seminar focusing on the sociology of aging. Students are encouraged to develop proposals for research, programs, or service activities upon generation differences and age changes.
850V Seminar in Research Methods (3-5) A complete research project carried out under the supervision of an instructor particularly qualified for the field. Students participate in the background work, question formulation, selection of test materials, design of test materials, data gathering by methods such as interview, and abstract writing. Some seminars, under faculty direction, may be repeated with approval. As seminar topics change, this course may be repeated in a student's program without implying duplication. PreReq: Permission.

855V Seminar in The Sociology of Religion (3-6) A seminar dealing with religion as a social institution, the selection of (or construction of) test materials, data gathering by methods such as interview, and the writing and presentation of a paper. Approval of the instructor or the general topic in the sociology of religion selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. PreReq: Permission.

860V Seminar in Social Organization (3-4) A seminar in which an individual work leading to the writing and presentation of a paper and preparation of a general topic in social organization selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. PreReq: Permission.

870V Seminar in Elementary Classroom Teacher (3) Consideration of problems and practical application of classroom leadership. PreReq: Graduate and permission of the instructor.

871V Seminar in Sociological Theory (3-6) A signed reading, discussion, specialized individual work leading to the writing and presentation of a paper and preparation of a general topic in sociological theory selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. PreReq: Permission.

874V Seatlon in Social Psychology (3-6) An introduction to the study of behavior and the developing techniques associated with the study of behavioral problems and its application to the problems of abnormal behavior. PreReq: Graduate and permission of the instructor.

880V Independent Study in Topics On Urbanism (3-6) An independent research course in urbanism on an advanced level under faculty supervision in topics pertaining to urbanism. PreReq: Undergraduate major in the social sciences plus 6 hours of graduate work on one of the social sciences. (Also listed under economics, geography, political science and sociology.)

885V-886V Seminar in Urban Economics (3-6) An examination of the theoretical basis for the study of urban economics; the study of the relationships between urban and non-urban areas and the basis for the linkage between urban and non-urban population. Emphasis upon the policy alternatives applicable to the problems of urban growth and urban decay. Permission may be required for each course. PreReq: At least 6 hours of upper division social science courses. (Also as Geography 885V-886V and Economics 885V-886V.)

895V-896V Practicum in Applied Sociology (Each 3) A practicum in applied sociology which provides opportunity for applying principles from the student's academic area of concentration. PreReq: Graduate sociology major for the M.S. Degree.

899 Thesis (1-6) A project in a specified small group communication (J. Brilliant) (3) Research and theory in the study of communication and interpersonal relationships; research procedures; approaches to teaching a discussion course.

900V-901M Language to the Deaf II (2) Continuation of SpEd 402 with further consideration of the language base for the hearing impaired and the development of language skills in normally hearing children. The effects of the hearing loss on language development, language development in the hearing impaired infant and preschool child. This course is designed for students preparing to be teachers of the hearing impaired. PreReq: SpEd 821 and FEG 801.

923/823M Language Development of Hearing Impaired Children (3) An investigation of the nature and structure of language, the various diagnostic techniques used with children, the acquisition of language in normally hearing children. The effects of the hearing loss on language development, language development in the hearing impaired infant and preschool child. This course is designed for students preparing to be teachers of the hearing impaired. PreReq: FEG 801.

924/824M Semantics in Language to the Deaf II (3) Continuation of SpEd 403 with further consideration of the language base for the hearing impaired and the development of language skills in normally hearing children. The effects of the hearing loss on language development, language development in the hearing impaired infant and preschool child. This course is designed for students preparing to be teachers of the hearing impaired. PreReq: SpEd 821 and FEG 801.

925/825M Speech Reading and Auditory Training (2) An investigation of the receptive modes and the expressive feature theory and generative phonology procedures and methods associated with the teaching of the deaf to the child. An in-depth study of the phonation patterns of English and methods employed in teaching the hearing impaired child. Students prepare for this course by preparing for students preparing for provision level certificatory examinations. PreReq: SpEd 821 and FEG 801.

933/833M Speech Reading and Auditory Training (2) An investigation of the receptive modes and expressive feature theory and generative phonology procedures and methods associated with the teaching of the deaf to the child. An in-depth study of the phonation patterns of English and methods employed in teaching the hearing impaired child. Students prepare for this course by preparing for students preparing for provision level certificatory examinations. PreReq: SpEd 821 and FEG 801.

944/844M Speech Pathology II: Rhythm and Symbolization (3) Types and causes of rhythm problem and language symbolization. Classroom discussion, special emphasis on rehabilitation procedures focusing on establishing speech with artelanious, aphasia and delayed language development. (F)

445/845M Speech Science II: Experimental and Applied Phonetics (3) Analysis of phonetic and phonological elements in American English dialects; practice in transcription and identification and definition of speech, use of the sound spectro­ gram, spectrometer and other equipment. PreReq: For 445, junior standing. 2.5 GPA. (F,Su)

450/850M Communication Disorders in The Elderly (3) Consideration of problems in selecting cognitive, language and communicative training programs as related to goals of public and private education for elderly; role and responsibilities of the speech clinicians; current methodologies. PreReq: For 450, 3 hours of speech science or Special Education 444. For 850M, graduate standing and 6 hours speech pathology courses. PreReq: For 450, junior standing. 2.5 GPA. (F,Su)

451/851M Basic Clinical Practicum in Speech Pathology (3-5) Minimum of 160 clock hours per credit hour of supervised practice in speech and hearing clinic; speech and hearing clinic; therapy sessions, lesson plans, records, and a weekly colloquium. PreReq: For 451, junior standing. Special Education 443 or Special Education 444. For 851M, graduate standing and permission of the instructor. (F,Su)

460/860M Introduction to Mental Retardation (3) A modular course covering normal and abnormal growth and development, the effects of retardation on an individual's potential, the problems of terminology, criteria, and definition procedures and methods associated with the retardation of individuals. PreReq: For 460 and working experience with handicapped children. PreReq: For 860M, junior standing. 2.5 GPA. (F)

464/864M Methods and Materials for Teaching Mentally Retarded Children (3) The retarded child as related to a variety of educational processes designed for his learning needs; methods and teaching materials; practice in the design and implementation of one or more units in the preschool through vocational; consideration of special emphasis on rehabilitation procedures and methods associated with individual involvements. PreReq: For 464, special education training. PreReq: For 464M, special education training. 2.5 GPA. (F,Su)

465/865M Curriculum Planning for The Disabled (3) This is a modular course covering the normal growth and development of the young child as he relates to a variety of educational processes designed for his learning needs; methods and teaching materials; practice in the design and implementation of one or more units in the preschool through vocational; consideration of special emphasis on rehabilitation procedures and methods associated with individual involvements. PreReq: For 465, special education training. 2.5 GPA. (F,Su)
tion, Special Education 306 and Special Education 460, and 2.5 GPA. (F,S,Su)

475/475M Childhood Language Disorders (3) This course will cover the various problems associated with children's speech, language and communication. Emphasis on the various methodological techniques of teaching language to exceptional children. Prereq: For 475, Special Education 306 and Special Education 366 and 2.5 GPA. (F,S,Su)

477M Professional Emotional Development of Children and Youth (3) A theoretical and empirical study of developmental and emotional maturation of children and youth with attention to lead to a variety of techniques for managing emotional and behavioral problems. (F) Prereq: For 481, junior.

481/481M Classroom Techniques for Behavior Control (3) This course will introduce the student to an in-depth study of programs for managing behavior in the classroom. Three major areas will be covered: the use of specific techniques which will be practiced both in the class and in the student's own teaching situation. Applications of specific techniques will be accomplished in the course. The course is intended for use by candidates who are currently enrolled in student teaching and for graduate students who are currently teaching in elementary, secondary, or special education programs. Prereq: For 481, Junior standing and student teaching. (F,Su,graduate standing) (S)

485/485M Introduction to The Physically Handicapped (3) Nature and educational needs of the children who are physically handicapped; definitions; prevalence and types of disabilities; special education programs; history; trends. (F,Su) Prereq: For 485, Junior.

800V Special Projects (1-3) A series of intensive study periods for in-service scheduled as regular seminars or workshops, according to need.

806V Interdisciplinary Approaches to Developmental Disabilities (3) This is an introductory course in various developmental disabilities as viewed by different disciplines at the University. The different disciplines will come in and present an overview of their role in working with the developmentally disabled child. (F,Su) Prereq: FED 801.

815V Research Projects (3) Individual or group study and analysis of specific problems.

817V Diagnostic and Remedial Instruction in Speech for Advanced Students: Reading which will provide the student with the necessary diagnostic and remedial instruction for the diagnosis and remediation of reading disabilities. (F,Su) Prereq: SpEd 911 or 912.

818V Measurement and Evaluation of Reading (3) A course for advanced students in which will provide the student with the nec

825V Clinical Practice in Reading (3) A laboratory-oriented course for advanced students in which will provide them with practical training in the use of various techniques in order that they might qualify as reading specialists. (F,Su) Prereq: Permission and SpEd 814V.

834V Pediatric Audiology (3) The course is designed for graduate advanced students in audiology and audiology and for students in education of the deaf majoring in audiology. It covers the basic concepts important to the understanding of the development of human hearing. The course will introduce the student to basic concepts in audiology, techniques for testing and assessment of children categorized as hearing impaired and preschool children. Disorders of hearing commonly found in children will be discussed. (F) Prereq: Hearing Disorders, SpEd 814V.

837M Hearing Disorders (3) This course will focus on the problems caused by disease processes; auditory functions which affect the normal process of audition; and those who are currently enrolled in student teaching and for graduate students who are currently teaching in elementary, secondary, or special education programs. Prereq: For 481, Junior standing and student teaching. (F,Su,graduate standing) (S)

842V Research Projects (3) A series of intensive study periods for in-service scheduled as regular seminars or workshops, according to need.

845V Advanced Auditory Studies in Speech Pathology (3) This course is the second semester of advanced methods course for students majoring in Speech Pathology. It is designed for graduate students who need more than one semester of supervised clinical practicum an opportunity to get this experience before being placed in a setting away from the university. (F,Su) Prereq: Permission and SpEd 451V or equivalent.

851V Advanced Clinical Practicum in Speech Pathology (3) The course is the student's first experience with clinical supervision. The student will be assigned to a speech pathology center. (F,Su) Prereq: Permission and SpEd 451V or equivalent.

851V Advanced Clinical Practicum in Speech Pathology (3) The student is placed in an externship setting with a cooperating master clinician. A minimum of five block hours of work is required for each credit hour per semester. (F,Su) Prereq: Permission and SpEd 451V or equivalent.

852V Advanced Clinical Practicum in Speech Pathology (3) The second semester of advanced clinical practicum. The student is placed in an externship setting with a cooperating master clinician. A minimum of five block hours of work is required for each credit hour per semester. (F,Su) Prereq: Permission and SpEd 451V or equivalent.

853V Seminar in Speech Pathology (3) Student selects and investigates three different areas of current interest in speech pathology; initial survey, annotated bibliography, presentation of observation and conclusions, seminar discussion, and evaluation of the student's work. Prereq: Graduation and for students desiring to work for a certificate. (F,Su) Prereq: SpEd 806V and SpEd 807V.

860V Vocational Training for the Mentally Retarded (3) A course designed to provide students with information and techniques in the area of vocational training for the mentally retarded. Prereq: Consent of instructor.

868V Community Services for the Handicapped (3) An introduction to community and regional resources providing services to the handicapped. Emphasis on the various training needs and employment opportunities available to individuals with learning disabilities. (F,Su) Prereq: Permission and SpEd 306.

867V Community Services for The Handicapped (3) An introduction to community and regional resources providing services to the handicapped. Emphasis on the various training needs and employment opportunities available to individuals with learning disabilities. (F,Su) Prereq: Permission and SpEd 306.

871V Parent-Professional Relationships in Special Education (3) A course designed to meet the needs of those who desire a basic overview of skills and techniques necessary in the education and training of the severely/profoundly handicapped. The course is open to graduate students who need more than one semester of course work. Prereq: Consent of instructor. (F,Su) Prereq: SpEd 451V or equivalent.

884V Adult Development and Learning (3) This is an introductory course in adult development and learning. It is designed for graduate students in fields of education and special education. Prereq: Consent of instructor.
This course provides a beginning graduate course for both elementary and secondary teachers and is open to any student who has graduated standing. Major emphasis will be given to the administration, organization, evaluation, and methods and materials for teaching reading from Kindergarten through the sixth grades. There are no prerequisites except graduate standing.

112 Problems of Teaching Reading–Secondary (3) This is a beginning graduate course for both elementary and secondary classes and is open to any student who has graduated standing. Major emphasis will be given to the administration, organization, evaluation, and methods and materials for teaching reading in each of the content subjects at the junior and senior high levels.

117 Seminar in Organization and Administration of Reading Programs (3) Participation in the seminar is limited to students who have completed at least one graduate reading course (or equivalent) and who are professional educators who are charged with the total or partial responsibility for organizing and administering reading programs. Familiarity with the philosophy, organization, and major research related to different reading programs will be emphasized. Local and area reading authorities will conduct panels and lectures on topics chosen by the students. Prereq: One graduate reading course or permission of instructor.

918 Seminar in Research in Reading (3) A course for graduate and postgraduate students relating to in-depth studies of significant, recent research in reading with appropriate application for instructional procedures which may be incorporated. 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.

Technical Institute

Industrial Technology

421/821M Contemporary Trends in Industrial Education (3) This course is an introduction to a new program development in industrial education, with major emphasis placed upon the world of manufacturing curriculum. Analysis of basic industrial operations and management practices utilized in industry and adapt them as learning units for the junior high industrial laboratory. Prereq: For 421, junior standing.

422/822M Contemporary Trends in Industrial Education For The World of Manufacturing (3) This course is an introduction to a new program development in industrial education, with major emphasis placed upon the world of manufacturing curriculum. Analysis of basic industrial operations and management practices utilized in industry and adapt them as learning units for the junior high industrial laboratory. Prereq: For 422, junior standing.

Urban Studies

801V The Metropale As A Public Economy (3) The integration of politics and economics in the metropolitan system as they affect metropolitan problems such as poverty, transportation, housing, crime, education, and the environment will be analyzed.

821V Race, Ethnicity, and American Urban Culture (3) This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and culture.

833V-884V Interdisciplinary Seminar On The Urban Community (3-6) An interdisciplinary course on the metropolitan community in which urban problems are put in a broad interrelated focus. (Also listed under economics, geography, political science, and sociology).
### GRADUATE FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>University/Institution</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>ROBERT L. ACKERMAN</td>
<td>Ed.D.</td>
<td>University of Nebraska-Lincoln, 1966</td>
<td>Professor</td>
</tr>
<tr>
<td>PAUL B. ACKERSON</td>
<td>Secondary/Post-Secondary Education</td>
<td>Oklahoma State University, 1965</td>
<td>Professor</td>
</tr>
<tr>
<td>JAMES C. AKERS</td>
<td>Special Education</td>
<td>Oklahoma State University, 1969; Associate Professor</td>
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<tr>
<td>LARRY ALBERTSON</td>
<td>Health, Physical Education &amp; Recreation</td>
<td>University of Georgia, 1973; Associate Professor</td>
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<tr>
<td>DAVID M. AMBROSE</td>
<td>Marketing</td>
<td>George Washington University, 1971; Associate Professor</td>
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<tr>
<td>T. H. George Washington University, 1971</td>
<td>Associate Professor</td>
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<tr>
<td>CLIFFORD ANDERBERG</td>
<td>Philosophy and Religion</td>
<td>University of Missouri-Columbia, 1966; Professor</td>
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<tr>
<td>WALTER M. BACON</td>
<td>Special Education</td>
<td>University of Northern Colorado, 1964; Professor</td>
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<tr>
<td>WALTER M. BAKER JR.</td>
<td>Political Science</td>
<td>University of Denver, 1974; Assistant Professor</td>
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<tr>
<td>BRUCE P. BAKER II</td>
<td>English</td>
<td>Texas Christian University, 1968; Professor</td>
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<tr>
<td>GEORGE W. BARGER</td>
<td>Sociology</td>
<td>University of Missouri-Columbia, 1964; Professor</td>
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<tr>
<td>NICHOLAS BARRISS</td>
<td>Geography</td>
<td>Clark University, 1967; Professor</td>
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<tr>
<td>GORDON M. BECKER (GF)</td>
<td>Psychology</td>
<td>University of Pittsburgh, 1955; Professor</td>
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<tr>
<td>RONALD S. BEER</td>
<td>Educational Administration and Supervision</td>
<td>Kent State University, 1969; Associate Professor</td>
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<tr>
<td>BILL D. BELL (GF)</td>
<td>Gerontology</td>
<td>University of Missouri, 1973; Associate Professor</td>
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<td>Health, Physical Education and Recreation</td>
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<td>Elementary and Early Childhood Education</td>
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<td>Dramatic Arts</td>
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<td>English</td>
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<td>Marketing</td>
<td>University of Pittsburgh, 1957; Professor</td>
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<td>Mathematics and Computer Science</td>
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<td>Art</td>
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<td>University of Illinois, Urbana, 1975; Associate Professor</td>
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<td>Educational Administration and Supervision</td>
<td>Ed.D., University of Tennessee-Knoxville, 1977</td>
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<td>Political Science</td>
<td>Ph.D., Washington University, 1965</td>
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<td>Goodrich Program</td>
<td>Ph.D., Claremont Graduate School, 1972</td>
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<td>Management and Organizational Behavior</td>
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<td>Ph.D., University of Minnesota-Minneapolis, 1969</td>
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<td>Physics</td>
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<td>PETER W. HILL</td>
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<td>M.F.A., Cranbrook Academy of Art, 1958</td>
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<td>Urban Studies</td>
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JAMES Q. PH.D., University of Nebraska-Lincoln, 1967; Associate Professor
WILLIAM C. Professor
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HOCKEIT, Economics
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HUGGINS, 1 Banking and Finance
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