Graduate Academic Catalog (1980-1981)

University of Nebraska at Omaha

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ADMINISTRATION
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Director, Academic Affairs
Don Leary, M.S.
Director, Intercollegiate Athletics
Charles R. Hein, A.B.
Director, University Relations & Executive Assistant to the Chancellor

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Sheran Cramer, M.S.
Acting Program Coordinator
Murray North, D.M.A.
Dean, College of Business Administration
Margaret P. Gesemann, Ph.D.
Dean, Graduate Studies and Research
Robert S. Runyon, M.I.S.
Director, Library

UNIVERSITY OF NEBRASKA AT OMAHA
DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

<table>
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<tr>
<th>DEPARTMENT OR AREA</th>
<th>Master of Arts</th>
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<td>Urban Studies</td>
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**English as a second language.

*Ph.D. in the speciality of educational psychology offered in conjunction with the Psychology Department, UN-L. Ph.D. in the speciality of special education psychology is offered in conjunction with the Educational Psychology and Measurement Department, UN-L.
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 1933, after the University became the Municipal University of Omaha, a Graduate Committee was organized to supervise graduate education. In 1942, the Graduate Committee was replaced by the Committee on Graduate Studies. The degree Master of Science in Education was approved in 1948. In 1954, the Committee on Graduate Studies became the Graduate Council and the Chairman became the Director of the Graduate Division. In 1960, the Board of Regents authorized a year of graduate study in education beyond the Master's degree. The Master of Business Administration was authorized in 1965 and the Master of Public Administration was authorized in 1970.

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1949. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College. In 1973 the Graduate Colleges on the separate campuses were merged into one Graduate College of the University of Nebraska with one Graduate Faculty. The College is administered by a Dean of the Graduate College. The former campus Deans of the campus Graduate Colleges became Deans for Graduate Studies and Research and report to the Dean of the Graduate College.

Graduate studies provide the opportunity for more advanced education than the undergraduate work upon which all graduate programs are founded. Qualified students at UNO are provided with opportunities:

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

To enable the student to attain these objectives, Graduate Studies at UNO provide graduate courses, workshops, institutes, seminars, practice, research, and special problems courses, and the supervision of these or special projects. Thus the Graduate Faculty at UNO promotes the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society. The UNO Graduate Council consists of fifteen members from among the Graduate Faculty and 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 graduate programs), and the American Chemical Society. Its courses are accepted for purposes of teacher certification by the Nebraska State Department of Education. Course credits from the University of Nebraska at Omaha are accepted by other colleges and universities which are members of the North Central Association and by other regional accrediting agencies.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION POLICY STATEMENT

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

The University of Nebraska at Omaha reafirms a policy of administering all of its educational programs and related supporting services and benefits to a manner which does not discriminate against persons because of a student's or prospective student's age, sex, race, color, national origin, handicap or other characteristic which cannot be lawfully the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assignments, scholarships and other financial and employment assistance, counseling, physical education and recreational services, and the membership practices of student organizations.

Further, the University of Nebraska at Omaha commits itself to a program of affirmative action to encourage the application of minority, women and handicapped students, to identify and eliminate the effects of any past discrimination in the provision of educational and related services, and to establish organizational structures and procedures which will assure equal treatment and equal access to the facilities and educational benefits of the institution for all students.
Pursuant to this policy statement, UNO will undertake a continuing program of compliance with all federal, state, and local laws relating to equal educational opportunity and affirmative action, specifically those addressing the obligations of the institution under Title VI of the Civil Rights Act of 1964 as amended, Title IX of the Education Amendments of 1972, and Sections 503 and 504 of the Rehabilitation Act of 1973.

PRIVACY ACT
In compliance with the Family Education Rights and Privacy Act of 1974, the University of Nebraska at Omaha guarantees students access to official records directly related to students and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate. Also, the institution must obtain the written consent of students before releasing identifiable data about students from records to others than a special list of exceptions, and that students must be notified of these rights.

An explanation of this Act and its application at UNO is available to all students, copies of which may be obtained at the Office of Student Activities, the University Information Center, the Registrar’s Office, the Orientation Office, or the Office of Educational and Student Services. Special Note: UNO welcomes handicapped students. Section 504 of the Rehabilitation Act of 1973 does not allow us to make preadmission inquiries regarding handicapped conditions. However, if you are handicapped and wish to receive information concerning available services, please notify us as soon as we can begin working with you.

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 program in mathematics designed to provide secondary school mathematics teachers with more depth in mathematics combined with a core of relevant professional courses in education.

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

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

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

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

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

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

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

Efforts will be made to enable students who maintain continucy 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 sesion every summer until all requirements for the degree have been satisfied). All students are, however, responsible for consulting their major advisors and checking on any changes promulgated. The Graduate College reserves the right to alter policies, practices, and requirements as would benefit the student through academic standards.

The student is advised to be familiar with the academic regulations of the University and the student is expected to assume all responsibility for knowing the pollicies, procedures, and requirements. The student is responsible for complying with all regulations of the University, the Graduate College, and the departments of instruction, and for meeting all academic requirements. The advisor should be consulted whenever there is a question concerning degree requirements.

PROCEDURES AND REGULATIONS
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 baccalaurate 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 or two official transcripts of all undergraduate and graduate work previously taken. Transcripts and all other materials submitted in support of an application become permanent property of the University and will not be returned. Transcripts 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 transcripts must be received by July 15, December 15, April 15, and July 15 for the respective terms. Those wanting to be considered for admission to the program in counseling and guidance should see page 35 for separate deadline dates.

Scores of the Graduate Record Examination, Miller Analogs Test or Graduate Management Admission Test must be filed in the Graduate Office.

The test results are confidential and the minimum scores are dependent upon the department in which the student intends to enroll.

Admission to Graduate Study does not admit the student to candidacy for any graduate degree. (See "Admission to Candidacy for Graduate Degrees.") The University reserves the right to change the regulations included in this 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
Three examinations: the Graduate Record Examination, the Graduate Management Admission Test and the Miller Analogs Test, are used by various departments to provide valuable evidence of a student’s qualifications for graduate work and are helpful in placing courses of graduate study.

These tests are given at UNO under the supervision of the Director, Counseling and Testing Center. Registration deadlines and testing dates are available from the Counseling and Testing Center, Eppley Building, or the Graduate Office, Adm. 283. A nominal fee is charged for these examinations.
Graduate Record Examination (GRE)

Graduate students are required to take the general aptitude test of the Graduate Record Examination (GRE) during their first semester of enrollment in Graduate Studies, unless they have taken it previously and have made the scores available to the Dean for Graduate Studies and Research. The advanced area test is also required unless this test has been waived by the cognizant Graduate Program Committee. The examination is not used to exclude admission at the Masters level.

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

A Graduate Studies applicant already holding a Master's degree in the field in which he or she wishes to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination. A student desiring to enter a program at UNO. This provision does not apply to those for whom admission to the Psychology Department programs are required to submit GRE scores (verbal, quantitative, and advanced) before being considered for admission.

The Counseling and Guidance Department requires those wishing to pursue a degree program in counseling to take admissions tests in addition to the Graduate Record Examination (see page 35).

Graduate Record Examination Admissions Test (GRE)

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

Miller Analogies Test (MAT)

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

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 graduate credit in a program of specific requirements of the departments in his graduate major and minor. In addition to the specified transcript record, appropriate scores of the Graduate Record Examination, Miller Analogies Test, or the Graduate Management Admissions Test must be supplied to the Dean for Graduate Studies and Research.

Provisional

Provisional admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the undergraduate prerequisite course requirements for admission to graduate study. This provisional status will continue until such time as the student has completed all of the undergraduate prerequisites for graduate study.

Provisional admission may occasionally be granted to a student who has less than a B average in the undergraduate work in his proposed graduate major and minor, and who has been accepted to the University of Nebraska at Omaha. This admission is granted when the student has successfully demonstrated to the satisfaction of the Department and the Dean his ability to pursue graduate study.

Seniors at an accredited institution who have obtained in advance agreement to enter the University of Nebraska at Omaha, in the second semester of the twelfth month prior to graduation, the Request for a Change - Graduate Degree Program Form should be submitted. Under no circumstances may the student transfer more than nine (9) semester hours into a degree program. Any transfer up to that amount may be recommended for acceptance by the receiving department, which may also recommend less than that maximum. No more than twelve semester hours credit may be earned within the University of Nebraska System while under Non Degree status without special approval from the Dean for Graduate Studies and Research.

Acceptance of Senior Credits: Seniors at an accredited institution who have obtained in advance agreement to enter the University of Nebraska at Omaha, in the second semester of the twelfth month prior to graduation, the Request for a Change - Graduate Degree Program Form should be submitted. Under no circumstances may the student transfer more than nine (9) semester hours of graduate credit to complete the bachelor's degree and wishing to register for graduate credit may be granted provisional admission to graduate study subject to receiving their baccalaureates within the twelve-month period immediately following such registration. They must file application for admission to graduate study and, if admitted, will register for graduate study registration forms.

Course work taken prior to receipt of the baccalaureate may not always be accepted for transfer to other institutions as graduate work.
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 and appointed by the graduate faculty of the department for appointment by the Dean for Graduate Studies and Research. If in any 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 whenever feasible, the student's adviser and thesis director. The representative from a department other than the major must be a member of the Graduate Faculty.

In addition to at least three voting members, faculty members in the university system may be appointed to serve as ex officio (without vote) as members of the committee. The Graduate Program Committees at UNO represent both the academic standards which must be satisfied by the graduate student and 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.

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

REGISTRATION PROCEDURE

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

Students must have been formally admitted to graduate study prior to their first registration.

ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

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

It is the student's responsibility to make application for candidacy for the degree as soon as qualified to do so. The qualifications are: (1) the scores on the Graduate Record Examinations, Miller Analogies Test, or the Graduate Management Admission Test must be on file in the Graduate Records Office; (2) a minimum of six (6) graduate credit hours have been completed within the Graduate College of the University System these six hours must be necessary for his/her degree program; and (3) a grade average of "B" with no grade lower than "C-" on work taken when included in the Plan of Study. Any Incompletes for any course in the student's major field of study or included in the Plan of Study must be removed before submitting the Application for Candidacy. At least one-half of the approved Plan of Study must be completed before the approval of the Application for Admission to Candidacy.

Transfer hours from universities other than the University of Nebraska will not be counted within the half (of the coursework) that must be completed after application for candidacy.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. A maximum of fifteen hours of course work used to satisfy the requirements of a previous graduate degree may be applied to a second graduate degree if such hours are approved by the Graduate Program Committee of the department in which the second degree program is completed. Further, these course work hours may not include any thesis or dissertation credit taken if the candidate was a graduate degree programs can be completed in the previous June.)

The application form and the plan of study should be filed with the major adviser who then submits them to the Dean for Graduate Studies and Research. The Graduate Office, after all signatures are secured, prints copies to the major adviser, the minor adviser and the student.

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

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

APPLICATION FOR THE DEGREE

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

FINAL COMPREHENSIVE EXAMINATION

A final comprehensive examination is required of all candidates for the Master's degree who (a) have completed at least thirty-nine (39) graduate hours; or (b) have completed at least twenty-four (24) graduate hours and the thesis (or in the case of a non-degree student - the requirements of a degree program); and (c) have a grade average of "B," with no grade lower than "C-" in work taken when included in the Plan of Study. Any Incompletes for any course in the student's major field of study or included in the Plan of Study must be removed before submitting the Application for Candidacy. At least one-half of the approved Plan of Study must be completed before the approval of the Application for Admission to Candidacy.

Transfer hours from universities other than the University of Nebraska will not be counted within the half (of the coursework) that must be completed after application for candidacy.

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

THESIS

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

It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses" and the "Guidelines for Graduates" as included in the catalog. At least one-half of the approved Plan of Study must be completed before the application for the final examination. Results of comprehensive examinations must be submitted to the Graduate Office in final form with the signatures of the department members on the approval sheets of all copies no later than twelve working days prior to the conference of the final examination.

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

ORAL EXAMINATION ON THESIS

The composition of a committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean for Graduate Studies and Research for his approval and appointment. This committee shall consist of members from the major department and at least one graduate faculty member from another department of the University. If the thesis examination is to be combined with the oral examination, the thesis field shall be used as the comprehensive examination. The final examination shall be given at least eight weeks prior to the date of graduation. Students who are registered for a Master's degree and have completed all courses may be granted permission to present their thesis for examination at their option. Students must file the Application for Candidacy for the degree prior to the oral examination, and the thesis must be completed and submitted to the Graduate Office not later than thirty days prior to the date of graduation. Students who are not yet registered for the Master's degree but have successfully completed all courses may be granted permission to present their thesis for examination at their option. Students must file the Application for Candidacy for the degree prior to the oral examination, and the thesis must be completed and submitted to the Graduate Office not later than thirty days prior to the date of graduation.
comprehensive (noted above), one-half the time may be devoted to the thesis and one-half to the graduate courses taken by the candidate.

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

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

QUALITY OF WORK

A "B" average must be maintained in all graduate work taken as part of a degree program, with not more than two courses (excellent or superior) in any one area in which the student is registered for credit. Failure on a single course at the grade level of "C" will automatically result in dismissal from any further graduate work in that specific degree program.

A grade of "D" or below for any course taken in the student's major field of study or in any course taken in the Plan of Study is considered a failing grade and a student receiving such a grade will AUTOMATICALLY BE DROPPED from the degree program. The student thus dropped must secure the approval of the COGNIZANT GRADUATE COMMITTEE OR ACADEMIC COUNCIL before they are appointed as the spokesperson for the consideration of the student's request to re-enter the Graduate Studies and Research in order to take coursework as a non-degree student. The student must submit a form (available at the Dean of Graduate Studies and Research) with the appropriate quality of work standards also apply to non-degree students.

A student, upon consent of his adviser, may repeat a course in which he has previously received the grade of C, D, or F. Both grades will appear on the transcript but only the second grade will be counted in determining the grade point average.

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

Each instructor must judge each situation. The instructor must also indicate by a departmental record, with a copy to the student, how and when by the incomplete is to be removed, and if the student is registered for credit, incompletes should be given only if the student has already substantially completed the major requirements of the course.

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 will supervise the removal of the Incomplete from the permanent grade record for the student.

NOTE: Two or more incompletes (excluding research projects and thesis) will result in a stop of enrollment for any new courses; the stop enrollment will stay in effect until the Incompletes are below two in number. Grades of Incomplete for all work completed within one semester (excluding summer sessions) after they have been awarded or they will be turned into a grade of F. Any extension of the one semester time frame must be arranged with the Dean for Graduate Studies and Research prior to the Incomplete being changed into a grade of F. Incompletes for research projects and thesis may not extend beyond two years from the date the "I" or "I" is given. If approval is granted by the Dean for Graduate Studies and Research, the student will not be permitted to register for graduate work.

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

CHANGE OF MAJORS

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

POLICY ON CLASS ATTENDANCE

The policy: Classes are conducted on the premise that regular attendance is desirable and expected. Each individual instructor has the responsibility for managing student attendance and for communicating at the beginning of each class session whether class attendance is mandatory during that class session. If a student discovers that he or she is to be absent for an extended period, the student should promptly notify the instructor and be prepared to document the reason for extended absences.

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 so involved 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 absence was not considered with equity, a decision with positive consequences may be appealed. The initial appeals procedure is the same as that provided for in each academic department, including the student submitting a written statement and requesting the Graduate Dean indicating the specific nature of the appeal to be considered and requesting the consideration of the appropriate collegiate committee designated for hearing such grievances."

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

The University Committee on Academic Standards recommends the selection of applicants according to the following criteria.

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

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS

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

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

1. If the appeal affects only the student's advisor, the appeal may 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.

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

B. Graduate students holding admission with a doctoral objective in the Graduate College requiring 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.

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

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

D. In all cases, appeals should be made in writing to the appropriate advisor, committee, or council.
1. Only under special circumstances will Committee III of the Executive Graduate Council hear an appeal from the decision of the campus graduate council. These circumstances are limited to occasions where Committee III believes that:
   a. The campus graduate council has exercised some element of due process or fair procedure (example: has failed to allow the parties concerned to present their cases fully to the council);
   b. The campus graduate council has failed to examine or give adequate weight to important evidence relevant to one party's position;
   c. The campus council has given undue weight to evidence not pertinent to the case;
   d. Some gross miscarriage of justice would be perpetrated if the decision of the campus council were allowed to stand.

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

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

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

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

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

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

OMBUDSMAN OFFICE

The Ombudsman's job is to assist you when you have a grievance or a problem with offices or individuals in the University. Advice on how to solve a problem, referrals to persons or offices that have the expertise you may need, and action on your behalf by the Ombudsman, are just a few of the duties of the office. The Ombudsman's services are confidential and free. If you have questions about University procedures, or don't know where to turn when you are confronted with unusual problems, call the Ombudsman, Administration 217. A more detailed description of the Ombudsman is the Undergraduate Catalog.

STUDY LOAD

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

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

NOTE: Students enrolling for more than twelve hours must have the approval of the Dean for Graduate Studies and Research. The Director of the Graduate School of Social Work may approve loads to fifteen hours for social work majors.

DROPPING AND AUDITING COURSES

A student may not drop a course after the date stated in the Academic Calendar and the Class with Learning Credit Schedule. Exceptions beyond that date will require the professor's certification that the student's work is satisfactory, the Dean for Graduate Studies and Research.

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

A student wishing to audit a course must secure the permission of the adviser, must register for the course to audit, and must secure the approval of the instructor of the course whose prerogative

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabi on file in the Graduate Office. Courses numbered 800, 900U, and 900 are open to graduate students only. Some courses numbered 900M are open to both seniors and graduates; the same is true of a selected few 900 numbered courses.

It is expected as a rule that graduate students enrolled in those courses numbered 900-900M will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.

RESIDENCE REQUIREMENTS

A minimum of 30 semester credit hours in residence (36 in the case of the Master of Science, Master of Public Administration, and the Master of Business Administration degrees) is required for granting of the Master's degree, except as provision is made for the transfer of credit. No credit will be allowed for correspondence work. NOTE: The Master of Social Work degree requires a minimum of forty-two semester credit hours.

TRANSFER OF CREDIT

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

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

Courses for which transfer is requested must not have been satisfied by any previously awarded degree. Grades in courses for transfer of credit must be the equivalent of "B" or higher. A written request must be made for transfer of credits from an ungraded course outside the University; the student must have the former instructor submit an evaluation to the Dean for Graduate Studies and Research for review and consideration. Transfer of credit for prior graduate work must be made within 30 days of the time that the student applies for candidacy for the degree. All work accepted for transfer of credit must have been taken within the six-year period allowed for the Master's degree.

In the College of Business Administration, the six semester hour of work beyond the Master's level may count as transfer credit, upon recommendation of the major adviser and with the approval of the Dean for Graduate Studies and Research.

Students who wish to take graduate courses at the University of Nebraska at Lincoln or at the Medical Center should make a transfer to UNO for credit. All non-credit courses must be approved by the appropriate Graduate Program Committee and the appropriate Graduate Dean before the student can be transferred from one program to another. Only grades of "B" or better will be transferred from other schools in the University System to apply toward degree requirements here.

WITHDRAWAL FROM THE UNIVERSITY

To officially withdraw from all classes and thereby from the University, and to receive any refund due as well as appropriate posting of academic standing for the grading period in question, a graduate student is required to obtain the signatures of his adviser and the UNO Dean for Graduate Studies 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, and as posted in the Cashier's Office. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

TIME LIMIT FOR GRADUATE DEGREES

The last thirty-six hours of work on the Plan of Study for any graduate degree must be completed within six consecutive calendar years. The first day of class of the earliest course which appears on the last thirteenth semester hour is the

it will be to determine privileges including examinations connected with the course. An audit study may not change to credit registration after the first week of a course. (A credit student may change to audit registration during the first eleven weeks of a semester, or during the first half of a class if it runs longer or shorter than a semester.)
student's graduate education. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate Council for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been recorded and is available. A report of the results of the examination, which shall be prepared, given, and graded, and will be available. If the department, shall be filed in the Graduate Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Dean for Graduate Studies and Research.

Time spent in the military service of the United States may be excepted in the application of this rule.

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

TUITION, FEES, DEPOSITS AND REFUNDS

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

Tuition and related fees are payable in full at the time of registration, or in accordance with the delayed billing schedule. Students availing themselves of the delayed billing option (see Student Financial Aid Office) pay in two threes with the due dates, as published. Note: Failure to receive the mailed billing notice will not excuse the student from payment responsibility. 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.

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

Matriculation Fee (Graduate College): $10.00

Payable upon first-time enrollment in the Graduate College.

Tuition Per Semester Credit Hour, Undergraduate or Graduate Resident of Nebraska (see residency statute): $26.50
Non-Rresident: $72.00
Per Student Credit Hour through Off Campus Program: $33.00

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

Special Instructional Fees:
- Applied Music, Voice and all instruments except percussion and harp. (Fee may be waived by the Head of the Music Department for any full-time students who are music majors or minors.
- One semester credit hour: $55.00
- Three semester credit hours: $165.00
- Four semester credit hours: $220.00
- Conference, non-credit, and off-campus contract course fees are determined for each offering based upon the costs factors and peculiar circumstances involved.

University Program and Facilities Fee (UFP): Full-time students (undergraduate or graduate) (12 credit hours or more) per semester: $42.00
Part-time students (undergraduate or graduate) (less than 12 hours) per semester: $25.00

This fee is assessed to every student each semester.

The UFP receipts are divided into two parts. One portion is designated for student activities and is distributed according to an annual budget developed by the Allocation Commission. The Allocation Commission comprises of students, faculty and staff representatives that are members of the fund to the University Councillor. After he approves their recommendations, he submits them to the President of the University and its Board of Regents for review and adoption.

The second portion of the UFP is designated for services, staff salaries, maintenance of facilities and related expenses, and those additional items designated by the Chancellor. This portion is budgeted separately with emphasis upon supporting the Chancellor and the Board of Regents in their plans for this portion of the UFP.

The full-time fee of $42.00 also includes the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying the full-time fee of $43.00.

Payable in addition to tuition and fees, the Student Financial Aid Office must be consulted in regard to federal and state financial aid programs.

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The full-time fee of $42.00 also includes the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying the full-time fee of $43.00.
RESIDENT STUDENTS

A student's right to classification as a resident for purpose of registration in a state educational institution must be determined under the provisions of Nebraska Revised Statutes of 1941. See 15-422 R.S. Supp. 1965. (See General Catalog.) Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar's Office.

STUDENT DEVELOPMENT SERVICES

Career Development Center

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

More appropriate and satisfying career decisions will be made if individuals have more information about themselves and the world of work. To explore and clarify interests, values, needs, abilities and career goals, one may become involved in individual counseling, workshops, the utilization of career information, testing and test interpretations. Counselors also assist individuals in gaining awareness of, and becoming acquainted with, information on employment trends, occupational responsibilities, and required training and qualifications for various career fields.

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

Career Placement Services

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

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

All four semester graduate students completing degrees may be encouraged to register with Career Placement Services by completing a placement file, including a resume and Personal Data Form. The College Placement Annual, supplied without charge to registrants, is a valuable directory of organizations having positions available for college graduates.

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

Career Placement Services offers two programs:

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

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

Career Placement Services sponsors programs covering numerous career employment topics. Programs include workshops, seminars or individual sessions. Job Readiness Workshops are offered each semester to help students develop interviewing skills and job search materials. Letters of application, resumes, and other items are made to obtain positions for all registered candidates; however, employment cannot be guaranteed.

Students are encouraged to visit Career Placement Services, Milo Bail Student Center, Room 134.

Counseling Services

Counseling services are provided to assist UNO students in their educational, emotional and personal development. The goal of the Counseling Center is to use all available resources to assist students in making positive adjustments in their academic and personal lives. Students use the Counseling Center to talk about concerns with professional, educational, vocational planning, family and personal problems, friends and financial difficulties.

The Counseling Center is staffed with professionally trained and experienced counselors. Students may come to the center at their convenience during the day or early evening hours. Students are assured that their privacy will be respected. Conversations with a counselor are held in confidence.

Frequently students do not know where to seek assistance or are confused about kinds of assistance available. The Counseling Center acts as a referral agency for students - opening the availability of a large number of university and community professional resources for the student.

General counseling services are provided at no charge to students and other members of the university community. Appropriate fees are charged for services to people who are not students or within the university.

The Counseling Center provides a professionally qualified resource team in assisting students to make academic, personal and vocational decisions with the assistance of various assessment tools. While there is no single test or group of tests that will magically reveal the information a person is seeking, the Counseling Center is expertly able to assist students to a clearer understanding of themselves. Testing is provided by the UNO Testing Center after consultation with a counselor. Interpretations and explanations of the results of these tests are provided by counselors from the center. The results provide information concerning educational, personal and career opportunities which can be utilized, for example, from the exploration of information gained from the test results and counseling sessions.

The Counseling Center is located on the first floor, east wing of the Eppele Building (62nd and Dodge) and is open during the day and early evening hours with the exception of weekends and announced university holidays.

Testing Center

A variety of testing services are available through the Testing Center, which is located on the main floor, east wing of the Eppele Building.

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

Credit by Exam at UNO

Credit by examination allows students the opportunity to gain academic credit for knowledge they have acquired through work or experience. Up to 30 hours of credit towards a bachelor's degree may be earned by achieving acceptable scores on examinations.

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

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

Credit earned by examination may not count as any part of the terminal residency requirement (see residency requirements in this catalog).

Credit will not be granted as substitute credit for college courses which have been failed at university level. Neither will it be granted to raise a grade earned in any course.

Examinations for credit or placement may not be repeated. Credit by examination may not be earned in any course taken on an audit basis after September 1, 1972.
examinations: Graduate Record Examination. Miller ministers special examinations required to enter professional or graduate school. The Management Admissions Test. and Test of English as a Foreign Language. Information and applications are available at the Testing Center, Eppley East, 554-2409.

The Information Center

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

Parents Association

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

Part-Time Student Employment Service

UNO students seeking off-campus part-time employment should visit the Part-Time Student Employment Service Office in the Milo Bail Student Center, Room 134. Employment counselors are available to assist students in finding employment, matching jobs with their interests where possible. Emphasis is placed on developing job-search skills and interviewing techniques. The Part-Time Student Employment Service acts as liaison between employers and students. Current listings of available jobs are posted on bulletin boards near Room 134 in the Milo Bail Student Center and outside Room 150 in the Eppley Building. Qualified students are referred directly to employers for job interviewing. All services are free.

Special Programs

The Office of Special Programs is the coordinating arm of several service units which function to assist UNO students in utilizing supervised educational experiences at the graduate level in conjunction with the degree program. Approximately twenty hours of work per week is required. The number of student assistantships will be limited to no more than twelve credit hours per semester unless the student has demonstrated extraordinary efficiency and the advisor recommends the assignment. Students earning less than 12 hours in one semester may be paid by the hour.

FINANCIAL AID FOR GRADUATE STUDENTS

GRADUATE ASSISTANTSHIPS

Available for qualified students who are enrolled in a graduate degree program are graduate assistantships in teaching, research or laboratory supervision. The position is designed to provide unsalaried supervised educational experiences for graduate students in conjunction with the degree program. Approximately twenty hours of work per week is required. The number of student assistantships will be limited to no more than twelve credit hours per semester unless the student has demonstrated extraordinary efficiency and the advisor recommends the assignment.

Graduate Assistantships will be expected to assist at least six graduate credit hours per semester (with two free credit hours one week of each semester equivalent to one semester). In those situations where the student has the last semester before graduation and only three hours of graduate credit are required for graduation, the student may be paid by the hour.

Tuition Waivers for Graduate Students

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

The University of Nebraska is a member of the Mid-America State Universities Association along with Iowa State University, Kansas State University, University of Kansas, University of Oklahoma, Oklahoma State University and the University of Missouri. Under the traveling scholar program, a graduate student who wishes to use special research facilities or take courses which are not available at the University of Nebraska at Omaha may do so with a minimum of red tape. If the major professor of the student is a member of the institution or the host institution agrees, the student may spend a semester at another school. The University of Nebraska at Omaha has educational agreements with four other institutions which allow students to take courses and receive credit at these institutions.

SCHOLARSHIPS

Phi Delta Gamma, a national fraternity for women, offers two annual scholarships of $150 each, to women graduate students who have completed approximately one half of their graduate work, based upon financial need. Qualified female graduate students are eligible for a Ph.Delta Gamma loan on a limited basis. To apply for loans from other sources as well, contact the Student Financial Aid Office.

LOANS

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

WORK—STUDY

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

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. Phi Delta Kappa is a national honorary society 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

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

GRADUATE FACULTY MEMBERS

Graduate Faculty Members may teach graduate courses, supervise students and serve on supervisory committees. To be eligible for appointment to supervise doctoral students:

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 its equivalent as determined by the Graduate Committee of the Dean and the Graduate Council of the Graduate Faculty.
3. The nominee will also be actively involved in graduate student research and teaching.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching. This evidence must be provided by the nominee.

GRADUATE FACULTY FELLOWS

Responsibilities

Graduate Faculty Fellows may teach graduate courses, supervise students and serve on supervisory committees. To be 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 achievements.
   a. In disciplines where publication is the normal outlet for scholarly work, the nominee must provide evidence of the nominee's significant, refereed publications appearing under the imprint of recognized scholarly publishing houses or journals.
   b. Publication based on the nominee's terminal degree is not sufficient, although publication of the dissertation or parts of it is significant if the nominator indicates in 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 outlet for scholarly work, the nominee must provide evidence of creative work accomplished by the nominee. This creative work must bear evidence of acceptance by peers within the discipline.
   d. The nominee must indicate current involvement of the nominee in research and/or creative work.
   e. The nominee must provide evidence of the nominee's teaching effectiveness in working with graduate students. This evidence must 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 faculty considers graduate policies, procedures and programs. Membership is by invitation. Information about the structure of the Graduate 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. This committee considers graduate policies, procedures and programs concerning graduate studies and research. The objectives of this committee are: (1) to foster fruitful research as an adjunct to teaching excellence, (2) to encourage research and to encourage solicitation of the available funds for research toward these ends, (3) to evaluate the research work of the faculty and students, and to recommend for approval or disapproval in keeping with the objec-
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.

CENTER FOR URBAN EDUCATION

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

POLICY ON PLAGIARISM

The prevention of, and the imposition of sanctions upon those who resort to, plagiarism is necessary in any university that espouses the ideals embodied in the concept of academic freedom. Plagiarism is the appropriation of the work (be it ideas or words) of another without crediting the source. Such a practice is particularly reprehensible in a community dedicated to the pursuit and advancement of knowledge.

Plagiarism by Faculty

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

Plagiarism by Students

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

POLICY ON ETHICAL CONDUCT

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

SUMMARY OF PROCEDURE FOR GRADUATE STUDENTS

1. File official transcripts of all undergraduate and graduate credit and an application for admission to the Dean of Admissions, First Floor East, Eppley Building.
2. Contact an adviser within the department to which you are applying for admission to determine departmental admission requirements.
3. Arrange to take the appropriate entrance examinations for your department. These will normally include either the GRE, GMAT or MAT. If you have already taken the appropriate examination, have your scores sent to the Graduate College.
4. You will be notified by mail of your acceptance or non-acceptance into the Graduate College after your transcripts have been evaluated.
5. Arrange your class schedule with your adviser and have him/her sign your registration card. You will be asked to pay a $100 matriculation fee the first time you enroll for graduate study.
6. Apply for candidacy as early as possible. This can be done as soon as you have satisfactorily completed six hours of graduate work at UNO, have your transcripts showing a Bachelor's degree and the GRE for other specified test scores on file in the Graduate Office, and have completed all undergraduate prerequisites and other departmental requirements. See your adviser for details. MGTE: Filing for candidacy is not the same as filing for a degree. It is necessary for you to make application for the degree in the semester in which you intend to graduate.
7. If you are a transfer student, you must consult with your department's Graduate Program Committee to determine which courses you will be allowed to transfer. These courses must be included on your application for candidacy.
8. You will be informed by mail of your admission to candidacy.
9. At the time of your final enrollment, arrange with your supervisory committee a time for your comprehensive examinations, if these have not already been taken. Also, inform the Graduate Office of your intent to graduate so that your graduate record may be compiled and reviewed.
10. If your approved program includes a thesis, obtain a copy of "Instructions for the Preparation of Theses" from the Graduate Office and prepare your thesis in accordance with Graduate College guidelines and departmental style requirements. Make arrangements with your department for oral examinations. The completed, fully corrected and approved thesis must be deposited in the Graduate Office together with the proper number of copies of it at least twelve working days prior to the conferral of the degree. The thesis binding fee must be paid in the Registrar's Office prior to the depositing of the thesis in the Graduate Office.
11. Make application for the conferral of the degree in the Registrar's Office. The deadlines for filing are usually well before graduation, so be aware of these dates. The deadlines will be stated in the current issue of the Graduate Catalog as well as posted during registration and in the Registrar's Office. If you apply for graduation and do not complete all of the requirements for the degree in time to graduate, you must reapply for graduation the following semester. No additional fee is charged to reactivate your application.
12. Pay all fees and fines and satisfy all obligations to the University at least twelve working days before the conferral of the degree.
13. Order a cap, gown and hood from the Bookstore.
DEGREE REQUIREMENTS

BIOLOGY

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

Master of Arts

Ordinarily every student will become a candidate for this degree. Only under appropriate circumstances will a student be allowed to become a candidate for the Master of Science degree.

To complete the Master of Arts degree with a major in biology the candidate must present 30 hours of graduate work in biology to include credit in thesis (a maximum of 6 hours), a minimum of 2 hours in departmental seminar (801V), and at least 22 hours of appropriate courses to be determined by the student and the faculty committee. Graduate students are expected to attend the departmental seminar even when not registered for it. The candidate must pass a final oral examination and present his/her thesis results at an open meeting of the faculty and students.

Master of Science

A student may become a candidate for this degree only upon the recommendation of the student's advisory committee.

To complete the degree the candidate must present 36 hours of graduate work in biology to include at least 2 semesters of Biology 801V, 1 semester of Biology 401V, and other appropriate courses to be determined by the student and his/her faculty committee. Graduate students are expected to attend the departmental seminar (801V) even when not registered for it. The candidate must pass a final written comprehensive examination.

BUSINESS ADMINISTRATION

The Master of Business Administration Degree

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

Emphasis is placed on decision making and problem solving.

Admission Standards

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

Junior-Senior GPA x 200 + GMAT = 1020

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

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

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

Degree Requirements

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

- College Algebra
- Economics
- Accounting
- Computers in Business
The degree requires a minimum of 36 semester hours for completion.

Core Courses
- BA 80V Quantitative Analysis
- BA 81V Business and Society
- BA 82V Managerial Economics
- BA 83V Managerial Accounting (or either BA 81V, BA 82V, or BA 83V, if applicable)
- BA 84V Human Behavior in Organizations
- BA 85V Policy, Planning, and Strategy

Option Courses

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

Option #2 — Marketing
- BA 840V Marketing Policies
- BA 841V Nonprofit Policies
- BA 845V Seminar in Marketing

One of the following may be included:
- BA 802V Research Methods in Economics and Business
- BA 803V Business Conditions Analysis

Option #3 — Decision Sciences
- BA 804V Research Methods in Economics and Business
- BA 805V Business Information Systems
- BA 806V Applied Quantitative Analysis

One of the following courses:
- BA 808V Business Forecasting
- Econ 830V Econometrics
- Econ 890V Independent Research (In Decision Science)

Option #4 — Real Estate
- BA 860 Real Estate and Land Use
- Econ 861 Economics Theory
- BA 899V Business Law

Option #5 — Accounting
- BA 821V Accounting Theory
- BA 831V Control Theory (if not taken as a core course)

BA 822V Seminar in Accounting (if not taken in a core course) 3 hours

One of the following courses:
- BA 823V Business Information Systems
- BA 825V Independent Research (In Accounting)

Note: If either one of the three courses BA 821V, BA 823V, or BA 825V is taken as a core course, both BA 822V and BA 899V must be completed.

Option #6 — Economics

BA 850V Business Conditions Analysis 3 hours

Plus 9 hours from the following (no more than 6 hours of M-level courses may be included in the MBA program):
- Econ 811M Public Utility Economics
- Econ 812M Energy Economics
- Econ 813M Transportation Economics
- Econ 814M Environmental Economics
- Econ 815V Theory of Public Finance
- Econ 816V Economic Security
- Econ 845V Seminar in Labor Economics
- Econ 850V Seminar in Micro Theory
- Econ 852V Seminar in Macroe Theory
- Econ 853V Research Methods
- Econ 854V Econometrics
- Econ 855V Seminar in Money and Banking
- Econ 856V Seminar in International Economics
- Econ 857V Seminar in Urban Economics

Option #7 — Management

BA 830V The Environment of Management
- BA 833V Seminar in Management
- BA 832V Personnel Administration

One of the following courses:
- BA 823V Business Information Systems
- BA 825V Business Conditions Analysis
- BA 840V Marketing Policies

Option #8 — Banking and Finance

BA 850V Financial Management 3 hours

Plus 9 hours from the following:
- BA 821V Security Analysis
- BA 823V Seminar in Investment Management
- BA 832V Seminar in Finance
- Econ 845V Seminar in Money and Banking
- BA 852V Banking and Financial Markets
- Econ 853V Structure, Function and Policy
- Econ 890V Independent Research (in Finance)

Option #9 — Industrial Psychology

BA 832V Personnel Administration
- Psych 862V Psychological Aspects of Industrial Training and Education

Psych 901 Seminar in Industrial/Organizational Psychology

Plus one of the following four courses:
- Psych 910M Research Design
- Psych 914V Nonparametric Statistics
- Psych 910 Seminar in Research and Fact Analysis

Psych 911 Procrustes: Multiple Regression

Option #10 — Individually Designed Programs

A student under the guidance of the Director of Graduate Studies in Business and Economics and with the approval of the Graduate Faculty of the College of Business Administration may develop an option of 12 hours of study. Each student should also consult with the Director of the MBA program at least once each semester to assure continued progress toward the degree objective.

A minimum of 21 semester hours must be completed in courses designated as business administration (BA).

Also, at least 30 hours must be at the "V" level of graduate work.

Student Responsibilities

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

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

Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 2 C's in graduate courses is permitted.

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

Master of Arts

In order to be admitted to the Department of Counseling and Guidance, the applicant must present at least 15 undergraduate semester hours of appropriate courses in communication arts and sciences, including courses in the humanities and social sciences. The applicant must have a 3.0 grade-point average in these courses.

The student must complete a minimum of 36 semester hours, including 12 semester hours in courses offered by the University of Nebraska at Omaha. The courses must be approved by the student's advisor upon request.

The student's plan of study must be approved by the student's advisor, and the student must maintain a 3.0 grade-point average in the courses taken.

The student must also complete a thesis or a comprehensive examination, as approved by the student's advisor.

Thesis option:

Successful completion of 24 semester hours of course work plus a thesis (6 credit hours) based on a proposal approved by the student's advisor and the student's committee. The committee conducts an oral comprehensive examination covering the student's field(s) of concentration. The completed thesis is submitted to the University of Nebraska at Omaha for acceptance or rejection.

Non-thesis option:

Successful completion of 36 semester hours of course work, at least 18 hours of which must be courses in the student's area of specialization. The student must also complete an independent research project or creative work, based on a proposal approved by the student's advisor and the student's committee. The student must also complete a comprehensive examination covering the student's major emphasis in written comprehensive examinations and be approved by the faculty committee.

COUNSELING AND GUIDANCE

Students may begin a program of study in Counseling and Guidance at any one of the three starting times during the course of the year. All students are required to follow a sequence of courses in either full- or part-time, and must consult their advisor to determine this sequence. Failure to do so could result in a delayed completion date.

Students must complete a Master's degree in Counseling and Guidance with an area of specialization. Current specializations include School Counseling (with a focus on elementary, middle, or high school counseling), Guidance (with an emphasis on personal and vocational counseling), and Counseling (with an emphasis on prevention and career counseling). The programs require the completion of 36 semester hours, including a comprehensive examination or a thesis, as determined by the faculty committee.

Required courses are determined in relation to the student's previous coursework, experience, and anticipated work setting. Most programs would have been included within the general outlines given below.

Students are admitted and permitted to continue programs in Counseling and Guidance on the basis of their potential for success and professional growth. Students who wish to continue their studies beyond the Master's degree may be accepted into programs leading to the Doctor of Philosophy (Ph.D.) or Doctor of Education (Ed.D.) degree. These programs are designed to provide advanced study in the field and are available on both a full-time and part-time basis.

Students who are admitted into the Master's degree program must apply for admission to the Ph.D. or Ed.D. program at the time of acceptance. Students who are admitted into the Ph.D. or Ed.D. program must complete a minimum of 36 semester hours, including a comprehensive examination or a thesis, as determined by the faculty committee.

Master of Arts programs may require the completion of 36 semester hours, including a comprehensive examination or a thesis, as determined by the faculty committee.
COUN E424V, Counseling Practicum
COUN E257V, Counseling Practicum
Selected additional courses in the department.

Specialization in School Counseling — Elementary Level*

I. Foundation Course

II. Selected Graduate Courses

III. Counseling and Guidance Courses

Selected additional courses in the department.

Specialization in College Student Personnel Services

I. Foundation Course

II. Selected Cognate Courses

III. Counseling and Guidance Courses

The master’s degree in counseling is designed to prepare the student for specific roles within the field of student personnel services, i.e., Admissions and Registrations, Counseling, Student Financial Aid, Placement, and Student Activities. Counseling with specialization in Gerontology

I. Foundation Course

II. Counseling and Guidance Courses

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

III. Counseling and Guidance Courses

The master’s degree in counseling is designed to prepare the student for specific roles within the field of student personnel services, i.e., Admissions and Registrations, Counseling, Student Financial Aid, Placement, and Student Activities. Counseling with specialization in Gerontology

I. Foundation Course

II. Counseling and Guidance Courses

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

III. Counseling and Guidance Courses

The master’s degree in counseling is designed to prepare the student for specific roles within the field of student personnel services, i.e., Admissions and Registrations, Counseling, Student Financial Aid, Placement, and Student Activities. Counseling with specialization in Gerontology

I. Foundation Course

II. Counseling and Guidance Courses

These courses are selected in accordance with the student’s particular area of interest. Most of these courses are taken in the departments of Sociology and Psychology.
ECON 801V, Public Finance .......................... 9 hours
ECON 815M, Monetary Theory and Policy ........ 9 hours
ECON 824V, Seminar in Money and Banking ... 9 hours
BA 653V, Banking and Financial Markets ... 9 hours
BA 658M, State and Local Finance .................. 9 hours

IV. International Economics .......................... 9 hours
ECON 802V, Seminar in International Economics 9 hours
ECON 864M, International Economic Development 9 hours
POLI SCI 801V, Seminar in International Politics 9 hours
Economics electives ................................. 12 hours

V. Urban/Regional Economics (select 4 courses - 12 hours, 6 of which must be in Economics) 12 hours
ECON 803V, Seminar in Urban Economics .......................... 9 hours
ECON 875V, Seminar in Regional Economics ........ 9 hours
ECON 899V, Research in Urban/Regional Economics 9 hours
GEO 812M, Urban Geography ...................... 9 hours
HIST 903M, American Urban History to 1870 9 hours
HIST 944M, American Urban History since 1870 9 hours
SOC 814M, Urban Sociology .......................... 9 hours

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

Master of Arts

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

Core (12 hours)
ECON 820V, Microeconomic Theory .......................... 9 hours
ECON 822V, Macroeconomic Theory .......................... 9 hours
ECON 832M, Quantitative Applications in Economics and Business* .................. 9 hours
ECON 833M, Economic Theory .......................... 9 hours
ECON 840V, Research Methods .......................... 9 hours
ECON 845V, Economic Policy .......................... 9 hours

Suggested Specializations

I. Economic Theory ........................................ 12 hours
ECON 826M, Evolution of Economic Thought 9 hours
ECON 820M, Advanced Macro Theory 9 hours
ECON 845M, Monetary Theory and Policy 9 hours
ECON 865V, Seminar in International Economics 9 hours

II. Energy and Regulatory Economics (select 3 courses) ........................................ 9 hours
ECON 820M, Energy and Environmental Economics 9 hours
ECON 832M, Competition in American Industry 9 hours
ECON 834M, Public Utility Economics 9 hours
ECON 835M, Energy Economics 9 hours
ECON 836M, Transportation Economics 9 hours

Electives (including 6 hours of thesis) .......... 9 hours

*Not required for students demonstrating satisfactory mathematical skills. In that case, add 3 hours to electives.
**Must be written under the supervision of a member of the REALUE program.

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 (without endorsement) must hold a Bachelor's degree from an accredited institution and be certificated at either the Master's level or the doctoral level. The degree program of at least 36 semester hours must include balanced coverage of the major areas of educational administration and supervision.

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

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

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

Specialist in Education

An applicant for admission to the Specialist in Education degree (with endorsement) in the departments of Educational Administration and Supervision must be certificated at either the Master's level or the doctoral level. The degree program of at least 36 semester hours must include balanced coverage of the major areas of educational administration and supervision.

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

The following courses provide a broad foundational basis for more advanced work in graduate education. They are designed to initiate students in education into a more thorough and critical understanding of basic educational issues. As introductory courses, the following courses can be applied for credit in most graduate programs in education.

FED 801, Introduction to Research (F:S:SS) 3 hours
FED 802, History and Philosophy of Education (F:S:SS) 3 hours
FED 806, Education and Society (S) 3 hours
FED 807, Alternative Strategies in Urban Education (S) 3 hours
FED 811, Conflict and Controversy in Urban Education (SS) 3 hours
FED 813, Field Research Techniques in Urban Education (F) 3 hours
FED 819, Growth and Learning Problems of the Disadvantaged (F:SS) 3 hours

For more information call the Department of Educational Foundations and Urban Education, 35A-2712.

M ASTER OF SCIENCE IN EDUCATION

Major in Urban Education

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

It is expected that students will be able to critically analyze the logic and structure of the educational institution, and the inter-relationship of education and other primary socializing agencies. Many of the courses offered in the program are designed specifically to facilitate an analysis of the ethnic, racial, and social characteristics of the contemporary urban scene.

It is also expected that students will develop an awareness of the ability to handle the learning problems of urban youth. The program emphasizes a cultural awareness and appreciation of the varied life-styles within the urban setting, and specific skills that function effectively as an educator. In addition, attention will be focused on a critique of existing programs and the development of new strategies for change and the improvement of the educational process.

Entrance Requirements

Students interested in the degree program must initially:
1) Hold a bachelor's degree from an accredited institution.
2) Submit a completed application form for graduate study and a transcript of all previous college work, and complete a set of departmental forms.
3) Complete an interview (where possible) with the Urban Education Committee.

Advancement to Candidacy

Before students can be advanced to candidacy, they must fulfill the following requirements. This must be done prior to the completion of twelve (12) hours at UNO:
1) Complete the Graduate Record Examination (verbal and quantitative) or the Miller Analogic Test. A low score may require supplemental work.
2) Complete six graduate hours at UNO, one of which must be FED 801, with grades of B or better.
3) Select one of the three program options for degree work.
4) Plan a program with an advisor.

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:
1) Complete a minimum of thirty-six graduate hours.
2) Attend and participate in departmental colloquium activities.
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.

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 who satisfies the criteria of the Graduate Science Committee and the General Science Committee may plan an independent study program. Such a program for full-time graduate study must be approved by the Director of Graduate Studies in accordance with the policies established by the Graduate Science Committee and the Graduate Council.

The candidate for full admission to the graduate program must present a Baccalaureate degree. In addition, eight semester hours of credit must be presented in each of the four natural science areas.

Degree Requirements: The degree requires a minimum of thirty-six (36) semester hours for completion. Candidates must complete a minimum of thirty (30) semester hours of approved course work and a minimum of six (6) semester hours of research credit for which a thesis is written.

Courses leading to the degree will be distributed across the natural science areas according to the decision of the candidate's advisor and the approval of the Dean for Graduate Studies. Thus, students may complete degree requirements 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.

GEORGRAPHY 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:

1. Option I: requirements for the Master of Arts degree
2. Option II: requirements for the Master of Science degree

The requirement for the Master of Arts degree is a written comprehensive examination and the preparation and submission of a thesis, credit for which must be taken in the Department of Geography and Geology. The thesis must be approved by the candidate's advisor and the Dean for Graduate Studies.

The requirement for the Master of Science degree is a written comprehensive examination. Each candidate for the degree will be assigned an advisor who will be responsible for the candidate's curriculum and the thesis in accordance with the candidate's degree program.

Admission Requirements: An applicant for admission to either the Master of Arts or the Master of Science degree program in Geography and Geology must present a faculty minimum of 15 undergraduate semester hours of geog- phy including Physical (106 or 107 or 117) and Cartography (335) or the equivalent. Those students not meeting minimal course requirements must remove any deficiency during the first year of graduate study.

Individual programs of study will be designed for incoming graduate students on the basis of GRE scores and performance on a personal interview with the department's representatives. It is not possible to orient individual needs and desires.

Basic course requirements include either an M.A. or M.S. degree include Geography Concepts, History and Philosophy of Geography, 801Y; and Geography Concepts, Quantitative Methods, 802V; and Field Geography, 806Y. The remainder of the program shall consist of courses selected by the student with the advice and consent of an advisory committee.

GERONTOLoGY

Certificate in Gerontology

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

Requirements:
1. Students wishing to work toward the Certificate in Gerontology must make application and be accepted into the Gerontology Program. Those working toward a graduate degree must also be accepted into the degree program of their major department.
2. Coursework requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 811M—Applied Social Gerontology (3 semester hours); 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, individualized programs of study are developed for each student to best meet his or her career goals and interests.

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

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

GERO 811M—Applied Social Gerontology (3 semester hours) — required of all students at the graduate level
GERO 810M—Educational Gerontology (3 semester hours)
GERO 846M—Aging and Human Behavior (3 semester hours)
GERO 867M—Programs and Services for the Aging (3 semester hours)
GERO 895M—Counseling Skills in Gerontology (3 semester hours)
GERO 894M—Practicum (0-5 semester hours)

HEALTH, PHYSICAL EDUCATION, AND RECREATION

The School of Health, Physical Education, and Recreation offers graduate courses in the areas of health education (HED), recreation education (RED), and physical education (PE). At present, the Master of Arts and the Master of Science degrees are offered with a major in physical education. The School of HPER requires that their students obtain a minimum score of 800 on the total of the verbal and quantitative parts of the GRE. This examination should be taken prior to or during the student’s first enrollment. If the student does not attain the 800 level, the student must retake the GRE during the student’s next enrollment for classes. If the student fails to obtain the 800 score on this second attempt, the student may appeal to the HPER Graduate Program Committee.

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

AREA

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<th>MIN HOURS</th>
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<td>I. PE Core</td>
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<td>PE 822V Problems and Issues in Physical Education</td>
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<td>PE 840V Motor Learning and Performance</td>
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<td>II. Research</td>
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<td>Research Methods, Statistical Methods</td>
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<td>III. Professional Specialization</td>
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<td>Improvement of Instruction</td>
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<td>IV. Related Academic Courses</td>
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Master of Arts
Major in Physical Education

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

AREA

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<td>V. Thesis</td>
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*Minimums of semester hours are determined by adviser.

HISTORY

Master of Arts
Admission to M.A. Program
1. To be admitted unconditionally a student must present 21 (twenty-one) hours of undergraduate preparation in History with at least a 3.00 average in those hours; further, to be admitted unconditionally, the student must have achieved a grade average of 2.75 in his overall undergraduate work and must follow all other admission requirements for Graduate Studies.
2. Students may be admitted provisionally who have less than 21 (twenty-one) hours of undergraduate preparation, or who have not achieved a 2.75 overall grade average. They shall be removed from provisional status when they become eligible for and have achieved candidacy.
3. An incoming student, not having Historical Research (Hist 493) or an equivalent, must take Hist 493 on a non-graduate credit basis.

M.A. Program with Thesis (Option I)

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

Ia. 24 semester hours of approved graduate courses in History, 9 of which must be in courses open only for graduate registration, i.e., seminars. The other 15 hours may be either lecture courses or courses numbered 801V and no more than 6 hours of credit may be taken by a student under this number. A balance of 15 and no more than 12 must be obtained from each area are indicated where such limits are applicable. The student in consultation with the major adviser will determine the exact courses leading to the degree.

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

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of course work, at least half of which must be earned in courses open only to graduate students (V series). No less than nine (9) hours of credit may be taken by a student under courses numbered 801V.
2. In addition to showing breadth competency in history, the candidate must give proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.
3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than six semester hours and no more than nine graduate hours. Permission to take a six hour minor may be granted by the adviser’s permission, and the approval of the Graduate Program Committee.
4. Whether or not the student elects a minor in an outside field, he shall maintain a reasonable balance between American and non-American fields in history.

When the student initially enrolls, he shall, in conference with the Chairman of the Graduate Program Committee of the Department of History, choose the program. The Chairman of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the Dean for Graduate Studies and Research for
Candidates for the Master of Science degree in Food and Nutrition must meet certain requirements. The candidate must be a designated member of the Graduate Faculty from Home Economics.

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

1. Early in the semester the candidate takes the degree, the degree candidate must make arrangements with his/her sponsor to take the comprehensive written examination, and the reading committee will consist of two parts, one devoted to the major area, and one to the minor area of study.
   a. If the major area of study is European/English history, the examination will be comprehensive, taking into consideration the student's program of study. The non-European/English portion of the examination will be over the specific courses taken for the minor. The major area examination will be of six hours duration (two three-hour segments), and the minor area examination will be of three hours duration.
   b. If the major area of study is American history, the examination will be comprehensive, divided into two three-hour segments, with the breaking point for the two segments normally following the breaking point of the American history survey (History 111-112 course). The minor portion of the examination will be over the specific minor courses taken, and will be of three hours duration.
   c. If the candidate offers an outside minor, the minor department and advisor will be responsible for the minor examination.

3. The reading committee will consist of the sponsor and one other graduate faculty member expert in the major area. The readers for the minor area will be the instructors of the courses offered in the minor. In the major area, the selection of the second reader shall be made by the sponsor and candidate. Both readers of the major and all readers of the minor area must agree that the candidate has passed the examinations for which they are responsible. In the event of disagreement, a third reader may be consulted as a mediator, and the result he/she supports will constitute the final decision.

4. The sponsor and the reading committee will select the items to be included on the examination, and the number of essays to be written. The candidate will have a choice of questions on which to base the examination.

5. The University for a comprehensive examination, and the reading committee will select the items to be included on the examination, and the candidate must agree that the candidate has passed the examinations for which they are responsible. In the event of disagreement, a third reader may be consulted as a mediator, and the result he/she supports will constitute the final decision.

6. In the event of failure of either all or a portion of the comprehensive examination at least four (4) months shall elapse before the examination in whole or in part may be retaken. Any reexamination must occur within twelve (12) months following the initial failure.

7. If in no event shall a student be permitted to take all or a portion of the comprehensive examination more than twice.

8. In planning for a comprehensive examination (or reexamination), students should be cognizant of the six-year limit for completion of degrees as set forth by the College for Graduate Studies and Research.

**HOME ECONOMICS**

Home Economics graduate students at UNO may be used as a minor (HCR or FN) for these pursuing programs in another discipline. The minor should be determined in consultation with a member of the Graduate Faculty in Home Economics.

UNO courses may also be used to satisfy recrification. Admission to a graduate program in the College of Home Economics requires presentation of the bachelor's degree from an accredited institution. Departments within the college may determine specific course deficiencies.

Applicants for a graduate degree program in Home Economics is to be made to Graduate Studies, Lincoln Campus. In addition to this, an important part of initiating a graduate program is to consult with the graduate program chairperson, and then to the dean for Graduate Studies and Research, certifying the candidate for conferral of the degree.

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

**MATHMATICS**

Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. A student is usually expected to have completed fifteen acceptable credits in undergraduate mathematics beyond calculus, and to have an overall average of B or better during the last two undergraduate years. In some cases where the above criterion is not met, a provisional admission may be granted provided the applicant is willing to take some preliminary course work that will not apply towards the degree.

**Master of Science**

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

1. Graduate in mathematics beyond calculus, and to have an overall average of B or better during the last two undergraduate years. In some cases where the above criterion is not met, a provisional admission may be granted provided the applicant is willing to take some preliminary course work that will not apply towards the degree.

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

3. Pass a written comprehensive examination.

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

1. Earn a total of 36 acceptable credits, at least 24 of which must be in mathematics.
2. Earn a total of 18 hours which carry a number of SO0Y or above.
3. Complete the requirement of six hours which carry a number of SO0Y or above.
4. Include mathematics courses 829M-829M, 827M and one of the following sequences: 810M, 811M, 812M, 813M-814M, 819M, 823M-824M.
5. Maintain a "B" average in all of his work with no grade lower than a "C," and no more than two grades of "C."
6. Pass a written comprehensive examination.

**Master of Arts**

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

1. Earn a total of 30 credits in mathematics.
2. Complete a thesis not to exceed 6 semester hours, which may be applied toward the 30-hour total.
3. Complete the requirements of b, c, d, and e above.

Admission Requirements for Master of Arts for Teachers of Mathematics (M.A.T.):

A student meeting the following two conditions will be admitted to the M.A.T. program:

1. has state certification for teaching secondary school mathematics.
2. has maintained at least a "B" average in previous mathematics course work including at least two courses beyond elementary calculus.

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

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

b. Include in his program mathematics courses 207T, 202T, 203T, 204T, 213T-270I, and at least one math course at the 600M level or above (Courses 223T-270I may be waived if the equivalent work is demonstrated in other upper division courses).

c. Include in his program secondary education courses 350V, 355V, and at least one additional secondary education course selected from 352V, 353V, 354D, 360V, or 365V.

d. As listed under the Master of Science above.

e. As listed under the Master of Science above.

**POLITICAL SCIENCE**

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

**Degree Requirements:** The program is intended for those who expect to pursue a doctoral degree. The student must satisfactorily complete thirty semester hours, twenty-four of coursework and six of thesis supervision. Students must maintain a B (3.0) average in their course work, receiving no more than one C. The thesis is expected to be a mature piece of scholarship. From the four subfields of Political Theory, American Politics, Comparative Politics and International Politics, the student will select an emphasis in two. Twelve hours of coursework will be taken in one area of emphasis and six hours in the other. The remaining coursework will be elective and may include courses in related disciplines. The twenty-four hours of coursework must be completed before the M.S. degree can be awarded. The student will be advised on the appropriate requirements covering their areas of interest. The aim is to tailor each student's program to fit his or her personal or career interests.

**Master of Science**

Degree Requirements: This advanced masters program is specifically designed to enhance career goals in the public service, education and business fields. Thirty-six hours of course work are required with a minimum of eighteen hours at the 600M level, including 800V (Research Methods). There will be comprehensive examinations in the two emphasized fields and an oral defense of the thesis.

**Master of Arts**

Degree Requirements: This advanced masters program is specifically designed to enhance career goals in the public service, education and business fields. Thirty-six hours of course work are required with a minimum of eighteen hours at the 600M level, including 800V (Research Methods). The student must pass comprehensive examinations in the two emphasized fields and an oral defense of the thesis.

**Psychology**

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing; Graduate Record Examination scores on the Verbal, Quantitative, and Advanced Psychology sections are not required. However, applicants who believe that such letters would provide information that is important and not clearly communicated in other documents are encouraged to have one or more letters submitted in their behalf. Three letters of recommendation are required of those applicants who seek to demonstrate their professional assistantship or are applying to a post-masters program. Exceptions to these admission requirements may be made on an individual basis.

**Degree Requirements**

To complete the M.A. degree with a major in psychology, the student must present at least 36 hours of graduate coursework in psychology, or 21 hours in psychology PhD 9 hours in a related minor field. Up to 6 hours of thesis credit are included in this total. The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

- I. Psychology 584 (Proseminar in Learning)
- II. Psychology 554 (Proseminar in Development)
- III. Psychology 921 (Proseminar in Perception)
- IV. Psychology 923 (Proseminar in Physiological Psychology)
- V. Psychology 919 (Proseminar in Analysis of Variance)
- VI. Psychology 919 (Proseminar in Factor Analysis)

The student must earn a grade of at least B in the four required proseminars. If a C is earned, or a grade lower than B is earned, in one proseminar the course may be repeated or the other in the group may be taken. Should two such grades (C and/or W) be recorded, the student will be dropped from the degree program. Under special circumstances (such as illness, a unique academic emergency, etc.) the departmental Graduate Committee will entertain a petition for exemption from this requirement.

The remainder of the student's course work is elective, but must be planned in conference with the academic advisor, in order to meet the individual needs and interests. Psychology 800V is a non-credit course intended to familiarize the beginning graduate student with the problems of research as they are addressed by the psychology program. The student is required to present 36 hours of graduate coursework in psychology. The student may choose one of the following areas: quantitative, physiological, general experimental, social, personality, developmental, educational, and industrial/organizational psychology. Final determination of a student's plan of study is made by the department and the departmental Graduate Committee.

**Specialist in Education**

The Ed.S. degree requires completion of six to eight 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. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

**Doctor of Philosophy**

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in Industrial/Organizational Psychology, 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 potential. The student must demonstrate proficiency in the English language or proficiency in a language other than English that is used in the Department. Basic requirements include the completion of the comprehensive examinations in major or minor fields. The Ed.D. degree is printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.
1. Required Courses in Psychological Methods
   - Psychology 311 (or 431) Psychological and Educational Testing
   - Psychology 300 The Profession of Psychology
   - Psychology 333V Individual Tests I
   - Psychology 354V Individual Tests II
   - Psychology 351V Advanced Educational Psychology
   - Psychology 355V Personality Assessment
   - Psychology 379 Topical Seminar in Psychology (3-9 hours)

2. Elective Courses in Psychological Methods
   - Psychology 352V Research Design
   - Psychology 353V Statistical Analysis
   - Psychology 354V Individual Tests II
   - Psychology 355V Personality Assessment
   - Psychology 379 Topical Seminar in Psychology (3-9 hours)

3. Additional Requirements
   - Completion of a research study or project under the supervision of a faculty member.
   - Submission of a final project or dissertation.

4. Graduate Degree Requirements
   - Completion of a minimum of 36 semester hours.
   - Maintenance of a minimum GPA of 3.0.
   - Written and oral examinations.
   - Acceptance of recommended changes by the student and the Committee.

5. Professional Programs
   - Approval by the Psychology Department.
   - Completion of a supervised internship.
   - Submission of a final project or dissertation.

6. Certification
   - Completion of specific requirements specified by the American Psychological Association.
   - Approval of the Psychology Department.

7. Admission Requirements
   - Completion of a minimum of 30 semester hours.
   - Maintenance of a minimum GPA of 3.0.
   - Submission of a final project or dissertation.

8. Graduation Requirements
   - Completion of a minimum of 36 semester hours.
   - Maintenance of a minimum GPA of 3.0.
   - Submission of a final project or dissertation.

9. Professional Program
   - Completion of a minimum of 36 semester hours.
   - Maintenance of a minimum GPA of 3.0.
   - Submission of a final project or dissertation.

10. Certification
    - Completion of specific requirements specified by the American Psychological Association.
    - Approval of the Psychology Department.

11. Admission Requirements
    - Completion of a minimum of 30 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

12. Graduation Requirements
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

13. Professional Program
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

14. Certification
    - Completion of specific requirements specified by the American Psychological Association.
    - Approval of the Psychology Department.

15. Admission Requirements
    - Completion of a minimum of 30 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

16. Graduation Requirements
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

17. Professional Program
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

18. Certification
    - Completion of specific requirements specified by the American Psychological Association.
    - Approval of the Psychology Department.

19. Admission Requirements
    - Completion of a minimum of 30 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

20. Graduation Requirements
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

21. Professional Program
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

22. Certification
    - Completion of specific requirements specified by the American Psychological Association.
    - Approval of the Psychology Department.

23. Admission Requirements
    - Completion of a minimum of 30 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

24. Graduation Requirements
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

25. Professional Program
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

26. Certification
    - Completion of specific requirements specified by the American Psychological Association.
    - Approval of the Psychology Department.

27. Admission Requirements
    - Completion of a minimum of 30 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.

28. Graduation Requirements
    - Completion of a minimum of 36 semester hours.
    - Maintenance of a minimum GPA of 3.0.
    - Submission of a final project or dissertation.
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) removal of all deficiencies specified for admission.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Application forms should be filed by the student — in consultation with the major and minor advisers — as soon as the student can qualify for admission to candidacy. Both the major and minor programs should be carefully and completely planned at this time and the application should be signed by both the major and minor advisers. The application form and the plan of study should be filed in the Graduate Office and copies should be provided for the major adviser, the minor adviser, and the student.

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

Courses Required of All Options
P.A. 804M, Public Budgeting or 848V Seminar in Public Financial Management if credit has been earned in 840/848M.

P.A. 841M, Personnel Management or 846V Seminar in Public Personnel Administration if credit has been earned in 841/846M
P.A. 800V, Seminar in Research Methods in Political Science and Public Administration
P.A. 842V, Seminar: Introduction to Public Organizations
P.A. 844V, Seminar in Organization Development in Public Agencies
P.A. 803U-804U, Internship

General Public Administration (15 hours from the following selected list in consultation with Adviser.)

P.S. 844M, The Legislative Process
P.S. 845M, The Judicial Process
P.A. 845M, Municipal Administration
P.A. 810V, Seminar in Public Administration
Econ 856M, State and Local Finance
P.S. 815V, Seminar in Public Law
P.A. 830V, Seminar in Public Policy
P.A. 846V, Seminar in Public Personnel Management
P.A. 848V, Seminar in Public Financial Management
P.A. 860V, Seminar in Administrative Law
P.A. 881V, Urban Seminar in Metropolitan Planning and Development
Econ 887V, Seminar in Regional Economics
P.A. 892V, Readings in Public Administration
P.A. 894V, Research in Public Administration

Gerontology Option (15 hours to include the following plus one more course at the 800V level selected in consultation with Adviser to fit the student's particular needs.)
Gero 811M, Applied Social Gerontology
Gero 835M, Health Aspects of Aging
Gero 838M, Gerontology Psychology
Gero 892M, Special Studies in Gerontology

Law and Environmental Economics (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.)
Gero 811M, Urban Geography
P.A. 842M, Municipal Administration
Econ 856M, State and Local Finance
P.A. 810V, Seminar in Public Administration
P.A. 830V, Seminar in Public Policy
P.A. 860V, Seminar in Administrative Law
P.A. 881V, Urban Seminar in Metropolitan Planning and Development
Econ 885V, Seminar in Urban Economics
P.A. 892V, Readings in Public Administration
P.A. 894V, Research in Public Administration

The Planning Options (15 hours to include CRP 811 and CRP 828 plus nine hours of course work from the following list selected in consultation with Adviser.)
The option stresses the planning process and related skills and techniques. Students selecting this option should plan on taking one or more courses on the Lincoln campus in order to complete the program expeditiously.

Required courses:
CRP 811, Urbanism and Planning in the U.S.
CRP 828, Planning Administration and Implementation
Elective courses:
CRP 813, Planning Process and Theory
CRP 845/855, Honoring Renewal and Development
CRP 882, Research Methods for Planning
CRP 929, Planning and the Natural Environment
CRP 915, Planning Within the Intergovernmental Context
CRP 917, Planning with Minority and Low Income Groups
CRP 924, Human Resource Planning

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

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

Transportation:
CE 466, Traffic Engineering
CE 468A, Transportation Geometrics
CE 483, Urban Transportation Planning
CE 486, Transportation Planning and Economics
Sanitary:
CE 800, Environmental Quality and Control — Land, Air, and Water
CE 826, Environmental Pollution Control
CE 841, Water Resources Planning
CE 846, Water Resources Planning
CE 916, Water Resources Planning
CE 918, Water Resources Planning
Design and Construction:
CE 469, Pavement Analysis and Design
CE 842, Construction Management
Social Work or Social Welfare Option (15 hours from the following selected list in consultation with Adviser.)
SW 800W, Human Behavior and the Social Environment
SW 805V, Social Welfare Policy and Services
SW 850V, Task Groups in Macro Practice
SW 852V, Social Work Administration
SW 854V, Social Welfare Planning
SW 856V, Supervision in Social Work
SW 858V, Advanced Policy Analysis and Implementation
SW 860M, Social Work Practice in Mental Health
SW 866M, Social Work Practice in Child Welfare
SW 870V, Alcohol and Drug Treatment Program
SW 890V, Special Studies in Social Welfare

The Environmental Option (15 hours to include at least one of the courses listed below, the remaining part of the program to be custom designed for the student at the discretion of the Graduate Program Committee of the Biology Department.) Students selecting this option must include the graduate program in both the Department of Public Administration and the Department of Biology.
Biology 813V, Environmental Biology
Biology 816V, 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 the Administration of Justice; CJ 812V, Criminal Justice Research Theory and Methodology, plus six hours from the following list selected in consultation with Adviser.)
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 certificate. During the first semester of enrollment students must take the Graduate Record Examination including the Advanced Test in Education. To be admitted to candidacy the combined score on the Verbal, Quantitative, and Advanced GRE Tests must total at least 1200. Students are expected to file their Application for Candidacy before they complete more than 18 hours of graduate work and no more than 18 hours of completed course work may be included in the proposed program of graduate studies.

Master of Science (with Minor)

AREA HOURS
I. SED Core Requirements
SE D 33V, Seminar in Secondary Education
SED 360V, Emerging School Curriculum
A course selected from the following:
  a. FED 80V, Introduction to Research
  b. A research course in an academic discipline
  c. Tests and Measurements
  d. Statistics
SED 3 Improvement of Instruction for Appropriate Subject Area
6
II. Professional Supporting Work
SED 433V, Analysis of Teacher Behavior
SED 466V, Simulation/Gaming Laboratory
SED 586V, Seminar in Application of Non-Verbal Communication Theory
SED 877V, International Curriculum Practices
0-6
0-12
Total: 36

Master of Science (without Minor)

AREA HOURS
I. SED Core Requirements
SE D 33V, Seminar in Secondary Education
SE D 360V, Emerging School Curriculum
A course selected from the following:
  a. FED 80V, Introduction to Research
  b. A research course in an academic discipline
  c. Tests and Measurements
  d. Statistics
II. Professional Supporting Work
SED 433V, Analysis of Teacher Behavior
SED 466V, Simulation/Gaming Laboratory
SED 586V, Seminar in Application of Non-Verbal Communication Theory
SED 877V, International Curriculum Practices
6
III. Related Professional Courses
0-6
IV. Related Academic Courses (by advisement)
0-12
Total: 36

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the Department of Secondary Education may be taken only with special permission of the advisor before enrollment.

IV. Related Academic Courses

Total: 36 hours

Master of Arts

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

AREA HOURS
I. SED Core Requirements
SE D 33V, Seminar in Secondary Education
SED 360V, Emerging School Curriculum
12
II. Professional Supporting Work
SED 433V, Analysis of Teacher Behavior
SED 466V, Simulation/Gaming Laboratory
SED 586V, Seminar in Application of Non-Verbal Communication Theory
SED 877V, International Curriculum Practices
6
III. Thesis (SED 999)
6
IV. Related Professional Specialization Courses and/or Academic Courses
9
Total: 36 hours

Students who seek the Master of Science Degree must take a written Comprehensive Examination. The examination is administered in two parts. Part I must be taken after the student has completed 18 hours of graduate work and before more than 24 hours are completed. This portion of the examination will deal with concepts common to the programs of all students who enroll in the Department. Part II of the examination is administered during or after the semester or summer session in which the last course of the program of studies will be completed. This portion of the examination deals with those concepts that are unique to each student's program but may also re-examine areas of weakness revealed by Part I.

Registration for this part of the examination must be made with the Department not later than the end of the seventh week of the semester in which the examination will be taken. If the examination is to be taken during the summer, registration must be completed by the end of the second week of the first summer session.

SOCIAL WORK

The Profession of Social Work

Social work is one of the “helping professions” concerned with the quality of human life. Specifically, the social worker is concerned with man's ability to function meaningfully and effectively in his environment (i.e., his family, friends, associates, and the community at large). The social worker brings systematized knowledge to bear on his dealings with people individually, in families, in other groups and collective associations, with communities, societies, and organizations with a view to helping in the resolution of problems which cause stress in social transactions.

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

Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. There are two programs leading to the Master of Social Work degree. The Advanced Standing Program for students with an approved Bachelor's degree in social work, requires 42 credit hours of graduate study in social work, which may be completed in a minimum of two semesters and a full summer. The Two Year Program for students with a Bachelor's degree not in social work, requires the same 42 credit hours as above and an additional summer. The minimum residency requirement is 36 hours.

The nature and amount of the coursework can be found in the following:

AREA HOURS
I. SED Core Requirements
SE D 33V, Seminar in Secondary Education
SE D 360V, Emerging School Curriculum
12
II. Professional Supporting Work
SED 433V, Analysis of Teacher Behavior
SED 466V, Simulation/Gaming Laboratory
SED 586V, Seminar in Application of Non-Verbal Communication Theory
SED 877V, International Curriculum Practices
6
III. Thesis (SED 999)
6
IV. Related Professional Specialization Courses and/or Academic Courses
9
Total: 36 hours
Courses offered by the School are subject to change.

The type and credit value of each of the courses is indicated in the course descriptions below.

**SOCIOLGY**

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

**Examinations:** Both the M.A. and M.S. (see below) degree programs with majors in sociology require the incoming student to complete a basic course in statistics and at least one other course in research methods. 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 graduation 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 the field or action application of sociology.

**Master of Arts**

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

**Master of Science with a Major in Associated Field**

A student contemplating this degree is expected to complete Sociology 801V and a minimum of 27 additional graduate semester hours, at least nine of which are from the 800V-level selection. In addition, the student must complete satisfactorily six semester-hour equivalents of a supervised work practice. The course work is 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.

**Colloquium**

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

**SPECIAL EDUCATION**

Graduate Requirements — STUDENT TEACHING

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

**Master of Arts: Speech Pathology**

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

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

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

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

4. Have successfully completed a minimum of twenty-four semester hours of work preparatory to admission to the major. These hours are to include the following courses or their equivalents:
   - SPED 140, Introduction to Communication Disorders
   - SPED 433, Speech Reading and Auditory Training
   - SPED 437, Hearing Disorders
   - SPED 438, Speech Science I: Speech Mechanisms
   - SPED 439, Hearing Science
   - SPED 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, Language Disorders in Childhood

5. For those students who wish to work toward special state certification in the schools, adviser consultation and an additional course in child development are required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field).

6. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   - Required Courses:
     - FED 801V Introduction to Research
     - SPED 851V Advanced Clinical Practicum in Speech Pathology (schools)
     - SPED 852V Advanced Clinical Practicum in Speech Pathology (externship)
     - SPED 846V Diagnostic Methods in Communicative Disorders
     - SPED 848V Advanced Audiology
     - SPED 870, Seminar in Special Education
   - Elective Courses:
     - Students may choose any of the courses in the area numbered 800V or above, contingent upon adviser approval.

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

**Master of Arts: Mental Retardation**

The Master of Arts degree with a major in mental retardation is a program primarily designed for persons 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. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) must be taken and scores submitted to the Special Education Department for consideration before applications are evaluated and processed to the Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program.

2. Students may undergo course work which will lead to:
   - a major of 24 hours in mental retardation.
   - a thesis not to exceed six semester hours.

OR:

- a major of 15 semester hours in mental retardation.
- a minor of nine semester hours in a related field of interest.

3. Students must take the following courses:
   - SPED 899V, Thesis (6 hrs.)

4. Students may undergo course work which will lead to:
   - a major of 24 hours in mental retardation.
   - a thesis not to exceed six semester hours.

5. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   - Required Courses:
     - PSY 213, Statistics
   - Elective Courses:
     - PSY 213, Statistics
   - Students may choose any of the courses in the area numbered 800V or above, contingent upon adviser approval.

6. Thesis: Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of the committee, following oral examination, which may include questions of a comprehensive nature over the curriculum as well as the thesis.
6. 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.
7. Subject to review of the applicant's transcripts and related experiences with retarded children, required courses may be selected from the following:
   a. Required Courses:
      FED 801T Introduction to Research
      SPED 870Y Seminar in Special Education
      SPED 872U Practicum in Special Education
      SPED 899T 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.

Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) is required for initial entrance into the program. A raw score of 35 on the MAT is required for initial entrance into the program.

I. Core Professional Courses
   a. 18 hours including work in graduate reading courses
      SPED 911, 912, 913, 914V, 915V, 917V or 918V or their equivalents
   b. 6 hours including introduction to research and selected work in such areas as foundations and general education, elementary education, secondary education, special education, and psychology.
   c. 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. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) must be taken and scores submitted to the Special Education Department for consideration before applications are evaluated and processed to the Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program.
2. Two letters of recommendation from people who know your undergraduate work well must be submitted to the department before the application can be processed.
3. Pass an examination to determine adequate personal oral speech proficiency and adequate hearing acuity for speech (Administered by the Speech and Hearing Clinic of the University).
4. Have successfully completed a minimum of twenty-four semester hours of work in pre-professional training to be admitted to the major. These hours are to include the following courses or their equivalents:
   a. SPED 440, Introduction to Communication Disorders
   b. SPED 443, Speech and Hearing Disorders
   c. SPED 443, Speech Science I: Speech Mechanics
   d. SPED 443, Speech Pathology I: Child Development and Articulation
   e. SPED 444, Speech Pathology II: Rhythm and Synchronization
   f. SPED 445, Speech Science II: Experimental and Applied Phonetics
   g. SPED 450, Communication Disorders in the Elementary and Secondary Schools
   h. SPED 451, Basic Clinical Practicum in Speech Pathology
   i. SPED 472, Childhood Language Disorders
   j. Pay 213, Statistics

5. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework may be required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field).

I. Required Courses:
   a. 2. FED 801T, Introduction to Research
   b. SPED 840V, Diagnostic Methods in Communication Disorders
   c. SPED 848V, Advanced Audiology
   d. SPED 851V, Advanced Practicum Speech(Schools)
   e. SPED 852V, Advanced Practicum Speech (Externship)
   f. SPED 853V, Seminar in Speech Pathology
   g. SPED 870, Seminar in Special Education.
   h. Elective Courses in Communicative Disorders:
   i. Students may choose any of the courses in the area numbered 800 or above.
   j. Elective Courses in Related Area:
   k. Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas.
6. Pass a written comprehensive examination, administered under the direction of the Departmental Graduate Committee.
5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

I. Required Courses: 30 hours
- SPED 590, Introduction to Research
- SPED 586V, Interdisciplinary Approaches to Developmental Disabilities
- SPED 602M, Introduction to the Mentally Subnormal Child
- SPED 613M, Curriculum Planning for the Developmentally Disabled
- SPED 604V, Theoretical Approaches for Teaching the Developmentally Disabled Child
- SPED 605M, Methods and Materials for Teaching Mentally Retarded
- SPED 672, Basic Observation and Student Teaching
- SPED 682M, Advanced Observation and Student Teaching
- SPED 670V, Seminar in Special Education

II. Electives: 6 hours
- SPED 480M, Language Development of Exceptional Children
- SPED 480, Learning Disabilities
- Psy 827, Testing and Measurement
- Psy 811M, Psychological and Educational Testing
- SPED 512M, Reading Diagnosis and Remediation for the Elementary Classroom Teacher

Master of Science: Resource Teaching in Learning Disabilities:
Resource Teaching in Learning Disabilities is a specialized training program designed to prepare the graduate student in identification, analysis, and intervention techniques relative to children who have specific learning deficits. Since the program assumes a knowledge of "normal" learning development, the student should enter the program with a strong background in learning theory, child growth and development, curriculum development, and methods and techniques of teaching. The training program is divided into three sequential steps which provide experiences necessary to develop clinical teaching, specific diagnostic and intervention skills, and practical application. The student will be comprehensively evaluated at the end of each of the first two steps and during Step III.

Upon completion of this program, the student will receive a Master of Science degree in Special Education with a major or endorsement as a Resource Teacher in Learning Disabilities. Other roles which the student could assume as a result of this program are clinical teacher, diagnostic teacher, and self-contained learning disabilities teacher. These positions are available only according to local school district job descriptions.

Entrance Requirements:
1. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) must be taken and scores submitted to the Special Education Department for consideration before applications are evaluated and processed to the Graduate College. A raw score of 33 on the MAT is required for initial entrance into the program.

2. Teaching Certification
   A. The applicant must hold a teaching certificate from a state education agency and be eligible to teach in elemenary or secondary grades or special education.
   B. Students accepted into the program without certification must complete the College of Education CORE Program. No student will be eligible to enter STEP II of the program without having completed the CORE program.

3. No certification and/or endorsement in areas of special education will be offered at the graduate level where certification/endorsement is available at the undergraduate level.

4. Teaching Experience
   Students must have completed a minimum of two years of successful teaching in pre-school, kindergarten, elementary, secondary, special education, or other services before final enrollment is considered. It is possible for students to begin the program without teaching experience; however, overall experience will not be recommended until two years of teaching has been completed.
Master of Science: Teaching the Emotionally Disturbed

Entrance Requirements
1. The student must have completed the following courses:
   a. Child Development — 3 hours
   b. Learning Theory — 3 hours
c. Curriculum Development — 3 hours
d. Student Teaching (or equivalent) — 3 hours
2. The student must demonstrate a "B" average for the last two years of coursework. The student may be granted provisional admission with less than a "B" average (but not less than 2.5) (See Graduate Catalog). The student must maintain a "B" average for graduate work.
3. The Miller Analogies Test must be taken prior to evaluation of admission application. The student must score 55 for provisional admission and 45 for unconditional admission.
4. The student will demonstrate his/her ability to articulate by writing a position paper in terms of previous work or teaching experience.
5. An informal interview with the advisor.
6. Student must hold a Bachelor's degree with a teacher's certification in one or more teaching areas.
7. Student must have completed two years of successful teaching before endorsement will be granted.
8. Students must fulfill all other entrance requirements as required by the Graduate College of the University of Nebraska at Omaha.

Program Requirements
1. Thirty-six (36) hours must be completed for the M.S. in Special Education with a major in Emotionally Disturbed and endorsement as a Teacher of the Emotionally Disturbed, K-12.
2. The student will be required to pass a 2-hour comprehensive competency examination at the end of each step. This exam will be scheduled once a term.
3. Courses
   Step I — 12 hours
   Required
   SPED 801, Introduction to Research — 3 hours
   SPED 882, Educ. Strategies for Ed Child and Adol — 3 hours
   SPED 840, Emotional/Social Development of Children and Youth — 3 hours
   SPED 840, Learning Disabilities — 3 hours

   Electives
   SPED 881, Interdisciplinary Approaches to Developmental Disabilities — 3 hours
   PSY 841, Abnormal Psychology — 1 hour
   PSY 845, Personality Theories — 3 hours
   PSY 839, Psychology of Exceptional Children — 3 hours
   PSY 851, Advanced Educational Psychology — 3 hours

   Comprehensive Examination

   Step II — 12 hours
   Required
   SPED 895, Diagnosis of Learning Disabilities — 3 hours
   SPED 883, Practicum in Teaching Emotionally Disturbed — 3 hours
   SPED 875, Childhood Language Disorders — 3 hours

   Comprehensive Examination

   Step III (9 hours)

   Required
   SPED 870, Seminar in Special Education — 3 hours
   SPED 875, Basic Observation and Student Teaching in Special Education (3)
NON DEGREE AREAS

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

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

Curriculum and Instruction
This area includes those offerings which have or could have a broad (K-12) multi-grade level application. Offerings in this area and having the Curriculum and Instruction prefix (CI) are meant to serve students within the education profession by broadening their skill levels, making available merged talents of collegiate faculty and functioning within different or multi-level educational settings.

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

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

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

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

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

Art

Studio Art

831M Advanced Sculpture (3) Advanced work in area of student's choice with facilities for ex­
cercyless: welding, acrylic, and woodwork. Prereq: Art 331 and permission of in­
structor.

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 con­
temporary art. Prereq: Art 341 and permis­sion of the instructor.

853M Advanced techniques in printmaking (3) Intaglio, lithography, collagraph, and the em­
bossed print, stressing color and technical profi­
ciency in the various media. Prereq: 331 and permission of instructor.

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

831V Graduate Sculpture (2) Advanced prob­
lems in sculptural media. Prereq: Art 431 and permission.

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

851V Graduate Printmaking (3) Advanced prob­
lems in printmaking in either intaglio or li­
thography techniques. Prereq: Art 451 and per­
mission.

Biology

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

336/836J Ecology (4) Study of interrela­tion­
ships between organisms and their biotic and abiotic environment; includes population biol­
ey, community dynamics, biotic interactions, and evolution. Prereq: Biology 145 and 175.

855J Morphology of Plants (5) An evolutionary survey of the major plant groups, including con­sideration of the morphology, ecology, life his­
tory, research use, and economic importance of each group. Prereq: Biology 145, Gen. Botany, or permission. Grad.

353/853J Flora of The Great Plains (3) The classification, identification, and recognition of common vascular plants, including weeds, orna­
mamentals, and indigenous plants, found in the great plains. Prereq: For 353, Biology 145, junior­senior. For 853J, Biology 145.

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

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

374/874J Histology (4) Analysis of the micro­
scopic anatomy of tissues and organs, their ad­
aptations and functional significance. Prereq: For 374, Biology 175, and a course in vertebrate anatomy, or permission of the instructor. Jun­
or-senior. For 874J, Biology 175, and a course in vertebrate anatomy, or permission of the in­
structor.

384/884J Embryology (4) A study of the princi­
plest of development in multicellular organisms, including current concepts derived from experi­
mental embryology, with emphasis on verte­
bate 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 fac­
tors that determine their location. Special atten­tion to North America is included. Prereq: Biology 102 and Biology 145, botany, or permission.

412/812M Problems in Ecosystem Management (2) Directed study in the application and evalu­
ation of methods used for managing native and reestablished ecosystems; the principal study site is the 65 ha. Allwine Prairie Preserve. Strong emphasis is placed on field work. Prereq: Graduate standing in Biology and permission of the instructor required.

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

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

418/818M Limnology (4) A study of the physi­
cal, chemical, and biotic relationships that serve to establish and maintain plant and animal communitie 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 or­
ganic evolution in terms of evidences which support the theory and the mechanisms in­
volved 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 div­
Animal Physiology (4) A comprehensive study of animal function emphasizing mechanisms of regulation and control. Prereq: For 474, Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of the instructor.


Mammalogy (4) A study of the evolution and adaptive significance of behavior manifested by the organism, as well as the evolution and adaptive significance of behavior manifested by the animal unit. Prereq: For 477, Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of the instructor. Junior-senior.

Vertebrate Embryology (4) A study of the evolution and adaptive significance of behavior manifested by the organism, as well as the evolution and adaptive significance of behavior manifested by the animal unit. Prereq: For 477, Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of the instructor. Junior-senior.

Environmental Physiology (3) A detailed study of animal function emphasizing mechanisms of regulation and control. Prereq: For 474, Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of the instructor.

Research in Animal Physiology (4) A study of the current concepts in genetics with emphasis on new gene concepts, gene expression in different species and populations, and the application of genetics to other areas of biology. Lecture and discussion of selected research papers. Prereq: Graduate standing in biology and permission of the instructor.

Biochemistry (4) A study of the morphology and anatomy of organisms in relation to their function. Prereq: Graduate standing in biology and permission of the instructor.

Histology (4) A study of the current concepts in genetics with emphasis on new gene concepts, gene expression in different species and populations, and the application of genetics to other areas of biology. Lecture and discussion of selected research papers. Prereq: Graduate standing in biology and permission of the instructor.

Behavioral Physiology (4) A detailed study of selected dynamic environmental factors by organisms of various taxa. Prereq: General physics and identification of animal physiology, or permission of the instructor. Graduate.
803V Business Information Systems (3) A study of how information systems are constructed and of the opportunities and problems associated with this activity. Prereq: BA 800V.

804V Applied Quantitative Analysis (3) A collection of business-oriented models and techniques applied to a variety of business problems in a case study format. Prereq: BA 800V.

805V Business Forecasting (3) This course is concerned with the statistical measurement and evaluation of general business conditions and specific business policies changing business conditions. Emphasis is placed on the application of the statistical techniques of analysis to the business situation. Prereq: Econ 800V or 802V.

807V Business Forecasting (3) This course includes the development of forecasting models and in-depth study of selected techniques commonly used in business environments. Emphasis is given to applications and therefore students will be required to develop forecasting models and test their performance as part of the course. Prereq: BA 800V or ECON 830M or permission of instructor.

810V Managerial Economics (3) Economic analysis of the firm and its environment; emphasis on market structure, pricing, production possibilities and cost factors. Prereq: BA 800V. Emphasis is given to the theories that underlie the firm under conditions of uncertainty. Prereq: Econ 201 or 202 or Econ 800.

813V Electronic Data Processing (3) A study of concepts, analysis, and procedures of accounting, auditing, and financial management data which provides management with information for planning and controlling on-line operations. Prereq: completion of BA 800V or equivalent. Prereq: Accounting Principles. Students with consent of Managerial Accounting at the undergraduate level may enroll in BA 821V, BA 823V, or BA 825V.

821V Business Forecasting (3) Development of forecasting models and techniques to assist management in planning and controlling ongoing operations. Prereq: BA 800V or BA 830V or the equivalent of Managerial Accounting at the undergraduate level.

823V Control Systems (3) An analysis of the concept and basic techniques of the controller function with emphasis on operational control and long range budgeting. Prereq: BA 820V or the equivalent of Managerial Accounting at the undergraduate level.

825V Seminar in Accounting (3) A study of problem areas which may be independent or interrelated in public, private, and governmental agencies. Prereq: BA 820V or the equivalent of Managerial Accounting at the undergraduate level.

830V The Environment of Management (3) A course examines both the intra-organizational processes of managerial planning, decision making, organizing and controlling as well as the external environment's impact on these processes. A systems framework is used to examine the environment, which includes an examination of international factors on the practice of management.

831V Human Behavior in Organization (3) An inter-disciplinary study of the psychological and sociological trends represented by a variety of theories of organizational behavior as well as broader bases for understanding and interpreting individual and group behavior. Prereq: MCB 449 or BA 811M and written permission of the CBA Graduate Coordinator.

832V Personnel Administration (3) Extensive treatment of the relevant development of theories and coverage of certain new methods, techniques, and procedures that relate to personnel administration and human resource management. Methods are made to select and present material to illustrate the impact of the various aspects of resource management and personnel administration, as related to human problems in organizations. Prereq: BA 813V.

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

840V Marketing Policies (3) A marketing management approach to the determination of policies employed in solving problems in marketing. Prereq: Mkt 331 or BA 811M.

842V Business Forecasting (3) Analysis of the methods, research, and policies needed to develop and administer an enterprise's marketing program. Prereq: Mkt 331 or BA 811M.

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

850V Financial Management (3) Examines the problems of managing the financial operations of an enterprise with emphasis on analysis and solutions of long and short term financial problems. Prereq: Mkt 331 or BA 311M. Students with consent of Managerial Accounting at the undergraduate level may enroll in BA 821V, BA 823V, or BA 825V.

851V Security Analysis (3) A study of the techniques of analysis of marketable securities. Statistical and financial ratio methods of analysis are examined as well as broader bases for appraisal of values of securities. Prereq: BA 830V or BA 831M.

852V Seminar in Investment Management (3) The theory of investment management and its application in formulation of investment decisions of different types of investors. Prereq: BA 325 or BA 311M.

853V Banking and Financial Markets: Structure, Function, and Policy (3) A comprehensive study of the structure and functioning of financial firms and markets; recent policies affecting the financial system; proposals for structural and regulatory changes. Prereq: BA 850V.

855V Seminar in Finance (3) Selected topics from areas of business financing. Prereq: BA 850V.

860V Real Estate and Land Use Economics Theory (3) This course covers the integration of the technical literature dealing with the development of real estate and land use economics. The tools are presented and developed with an emphasis on real estate decision-makers in identifying and evaluating professionally the complex factors which determine property values, income, investment, and land-use patterns. Prereq: Econ 201 and 840V.

861V Current Problems in Real Estate and Land Use Economics (3) A study of current problems in real estate-land use economics. Emphasis is given to the private and public sectors. Analysis of economic development, land use planning and use and the use of real property to provide a viable environment for all citizens. Prereq: RE 340, RE 346, RE 450, and written permission of the instructor. Prereq: Econ 201 and 840V.

868V Policy, Planning, and Strategy (3) A comprehensive study of business problems, prospects and opportunities at various levels of organizations. The student is responsible for demonstrating interrelationships between the various disciplines of study. Only a B or B is considered an acceptable grade. Prereq: Taken in last 9 hours of MBA program.

890V Independent Research (3) Individual research project taken under the direction of a faculty supervisor. No grade lower than C is allowed. Prereq: Taken during last six of semester credit hours. Prereq: Taken concurrently with BA 811M.

897V Special Topics in Business (1-3) Topics not covered in other courses. Prereq: Consent of instructor. May be repeated for credit with the approval of the College of Business Administration, and subject to the limit of nine hours for the entire 897V series. Prereq: Taken concurrently with BA 811M.

899V Advanced Independent Study (1-6) A research project, under the supervision of a faculty thesis adviser in the CBA Graduate Coordinator. Some topics will require more advanced study in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours for the entire 899V series which must be from outside the program area. Prereq: Taken concurrently with BA 811M.

899V Advanced Independent Study (1-6) A research project, under the supervision of a faculty thesis adviser in the CBA Graduate Coordinator. Some topics will require more advanced study in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours for the entire 899V series which must be from outside the program area. Prereq: Taken concurrently with BA 811M.

899V Advanced Independent Study (1-6) A research project, under the supervision of a faculty thesis adviser in the CBA Graduate Coordinator. Some topics will require more advanced study in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours for the entire 899V series which must be from outside the program area. Prereq: Taken concurrently with BA 811M.
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COMMUNICATION

801M History of Mass Communication (3) The American Mass Media: issues from the 17th Century to the present. Emphasis on mass media as social institutions, particularly in their interaction with government and the public, with emphasis on themes of criticism, normative evaluation, and solutions to perceived media problems.

840M Mass Media and Society (3) The study of mass media as social institutions, particularly in their interaction with government and the public, with emphasis on themes of criticism, normative evaluation, and solutions to perceived media problems.

841M 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.

842M Theories of the First Amendment: Speech and Press (3) An examination of freedom of expression and communication in the United States, the historical evolution of this principle, and related matters. Emphasis on the philosophical and legal aspects of freedom of speech and press and the theories held by legal scholars. Prereq: Communication 440 or 441 or permission.

830M Communication and Mass Culture (3) An examination of the cultural, historical, and political context of mass communication. Prereq: Graduate standing and majoring in Communication or instructor's permission.

811M Development of Rhetorical Theory (3) The development of rhetorical theory from ancient Greece to the eighteenth century. Prereq: Nine hours of speech.

817M Organizational Communication (3) Communication in relation to problematic issues in the organization. Prereq: Permission of the instructor.

822M Literacy Aspects of Journalism (3) Survey of the journalistic works of pertinent American writers through readings, lectures, discussions, plus creative writing assignments.

828M Public Relations (3) A study of the principal principles and psychological processes underlying persuasive communication, a review of theories of audience, message, and channel, and the role of the public relations professional in the development of effective communication.

827M Political Communication (3) A study of the evolving role of the electronic media in shaping political attitudes in the U.S. and contemporary democratic society. Prereq: Political Science 100 or Komm 150, 151.

834M Mass Communication and Political History (3) Mass communication and its role in the development of mass society. Prereq: Komm 101 and 3 hours of psychology, sociology, or political science.

825M Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: Permission. (Same as Psy 452M, 525M)

835M Issues in Broadcasting (3) A study of the current issues facing American broadcasting. Prereq: Komm 150 or 151.

837M Broadcast Workshop (3) A workshop to explore communication theory and practice of selected skills in their application. Prereq: Komm 150 or permission.

833M Film Theory and Criticism (3) Study of major theories of film and criticism in Europe and America, with concentrated analysis of selected films. Prereq: Komm 231 or DA 105 or permission of instructor.

840M Mass Media and Society (3) The study of mass media as social institutions, particularly in their interaction with government and the public, with emphasis on themes of criticism, normative evaluation, and solutions to perceived media problems.

841M Communications Law (3) A discussion of laws, legal issues, court decisions and government regulations which have special application to the mass media, such as libel, privacy, contempt of court, copyright, censorship, and the Federal Communications Commission. Universals of human symbolizing processes (e.g., mass communication) will be explored extensively and intensively. Principles underlying the communication process will be examined. Prereq: Graduate standing and majoring in Communication or instructor's permission.

842M Theories of the First Amendment: Speech and Press (3) An examination of freedom of expression and communication in the United States, the historical evolution of this principle, and related matters. Emphasis on the philosophical and legal aspects of freedom of speech and press and the theories held by legal scholars. Prereq: Communication 440 or 441 or permission.

830M Communication and Mass Culture (3) An examination of the cultural, historical, and political context of mass communication. Prereq: Graduate standing and majoring in Communication or instructor's permission.

850M Seminar in Communication Theory (3) Analysis of current research approaches to the study of communication, emphasis on theoretical models and significant research in various professional interests. Prereq: Communication 847V or the instructor's permission.

857V Seminar: Mass Communication (3) This seminar was designed for students preparing to take the major, a minor, or permission of the instructor. The mass communication system in the United States will be considered in its basic psychological and legal contexts and the current political, cultural, sociological and psychological theories relating to the process and effects of mass communication. Prereq: Graduate standing and majoring in Communication or instructor's permission.

890V Independent Research or Creative Projects (1-6) For majors in Communication supplementing advanced graduate courses. Prereq: Admitted to candidacy (or application pending); written proposal of each project approved by the student's committee.

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

940 Seminar in Small Group Communication (3) Research methods, procedures: methods for developing skills in small group communication and leadership; research procedures; methods for developing skills in small group communication; research on the development, facilitation and barriers of non-human communication. Prereq: Communication 801V or equivalent; or basic statistics, or permission of the instructor. (Same as Sociology 940V and Psychology 940V)

955 Seminar in Applications of Non-Vocal Communication (3) Workshop workshop designed to prepare students to work in the field. Prereq: Permission of the instructor.

812U Counseling With Parents (3) A course examining the counseling techniques and counseling relationships. Special attention is given to counseling parents of children in disturbed situations. Prereq: Count 825 or Count 822 or permission of the instructor.

818U Advanced Practicum in Counseling (2-3) Continuation of practicum in counseling. Prereq: Count 825 or 836 and permission of the instructor.

815V The Student and Student Personnel Work in Higher Education (3) An overview of the characteristics of college students and their interaction with campus environment and personal, social, and educational influences. The impact of counseling is considered as it affects personality growth, social development, and career planning by college students. Prereq: FED 810V.
897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.

897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.

897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.

897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.

897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.

897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.

897V Practicum in Counseling (4) Supervised experience co-facilitating group counseling or case work under the supervision of a counselor of the University. Prereq: Coun 824, 827, and/or permission of instructor.

832V Counseling and Guidance Internship (6-12) Field experience in guidance program under the supervision of a qualified counselor and a graduate faculty member of the University. Prereq: Coun 824 and permission of department.
ment of gifted children and youth, and (3) develop an awareness for flexibility as a means of meeting the diverse potential of gifted children and youth. Prereq: Graduate Standing.

820V Teaching the Gifted and Talented (4) This course is intended for the processes for developing a total sequential K-12 program for the gifted and talented, upon the special qualities of teaching the gifted, and the preparation of the gifted and talented. Prereq: Admission to Graduate College. Introduction to the Education of the Gifted or permission.

Dramatic Arts

801M/802M Advanced Projects in Dramatic Arts (1-3) Special projects in dramatic arts supported by practical experience; individual research projects; combined study and practice. Prereq: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

806M Children's Theatre Production (3) Study of preparation, production, design, production and production of plays for children. Students plan a complete children's theatre production or become actively involved in an actual production. Prereq: Graduate major or minor in theatre or permission of the instructor.

809M Advanced Oral Interpretation (3) Theories and techniques for the interpretation from antiquity to the present. Preparation and presentation of a recital. Prereq: DA 109.

813M/833M Acting: Historical Periods and Styles (Each 3) The fundamental theories and practices of major styles of acting from ancient Greek drama to the modern period, including interpretation of outstanding dramatic literature. Prereq: DA 310 or permission of instructor.

844V Directing: Rehearsal and Performance (3) A practitioner in play selection, analysis, casting, directing, and production. Prereq. DA 101, 206, 203, 231 or permission of the instructor.

850/851M Costume Design (Each 3) An introduction to the fundamentals of stage costume design, including line, silhouette, movement, color and character, and the selection of fabrics. Emphasis on visual presentation of designs, including consideration of materials and methods of construction. Prereq: DA 206-207, 351; Art 110; 121.


867M Stage and TV Lighting (3) Characteristics and practical applications of color and their application to the theatre and television: elementary electrical principles: dissipation and reflection; lamps; control systems. Prereq. DA 101, 206, 207, 261.

871M History of the Theatre to 1642 (3) A history of the development of western culture and its literature from its origins to 1642.
806V Education and Society (3) A study of the problems that modern society is confronted with and the role education has in helping to meet these challenges. Emphasis will be placed on the interface between the educational institution and other major areas of life, including the social fabric. Attention will be given to the median. 807V Alternative Strategies for Education (2) An intensive study of a (A) the impact of present school system on education and practice on the student and (B) Current alternative proposals for education (B) 808V Practicum Internship (2-8) An integration of community and school experiences with special reference to the disadvantaged pupil, including the history and problems of the junior high and elementary schools — language arts, social studies, evaluation, classroom control and curriculum are the foct. 809V The Urban School (3) An analysis of the societal and institutional processes and problems resulting from the integration of urban education in urban settings. A study of the urban school. 810V Research Project (1-3) Individual or group study and analysis of specific problems in education. 811V Conflict and Controversy in Urban Education (3) A course designed for students who wish to study the problems of contemporary issues which confront the educational institution and their repercussions on the society in an urban milieu. Topics are modified annually to reflect current educational issues. Meetings are scheduled once per month, September through May. 813V Field Research Techniques in Urban Education (3) The basic purpose of this course is to give students an opportunity to design and conduct research within the urban Milieu. Anthropological field research and naturalistic studies will be given emphasis. Students will be required to develop a field research design and will learn to gather and collate data. Practicum work will culminate in the completion of an urban educational field study. Prerequisites: Graduate standing. FED 801, 833, or permission of instructor. 833V Anthropology and Urban Education (3) The course's purpose is to examine ways in which education, conceptualized as cultural transmission, contributes to and is influenced by institutions and changes in culture. An understanding and working knowledge of the cultural milieu of the course will be emphasized. Relationships among ecological, social, and ideological factors in a multicultural society will be stressed. A limited anthropological field study is a requirement of the course. Prerequisites: FED 801v or Introduction to Research. 835V Futurism and Education-Learning for Tomorrow. The Futurist view of future in Education (3) Designed to make use of the telephone in order to receive a small, immediate information service from individual Futurists who have expertise in the field of Futures Studies. Participating in the course, students are expected to have four capabilities upon which to build their own futures. 808V Practicum Internship (2-8) An integration of community and school experiences with special reference to the disadvantaged pupil, including the history and problems of the junior high and elementary schools — language arts, social studies, evaluation, classroom control and curriculum are the foct. 809V The Urban School (3) An analysis of the societal and institutional processes and problems resulting from the integration of urban education in urban settings. A study of the urban school. 810V Research Project (1-3) Individual or group study and analysis of specific problems in education. 811V Conflict and Controversy in Urban Education (3) A course designed for students who wish to study the problems of contemporary issues which confront the educational institution and their repercussions on the society in an urban milieu. 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COURSE DESCRIPTIONS

871V Advanced Practicum in Elementary Education (3) Advanced practicum will demand an increased responsibility on the part of the student. An semester and a concomitant increase in variety of experiences, based on the student's own practice (EED 871v) and a continuous refinement of the quality of teaching based on the performance during his first practicum experience (EED 870v). Prerequisites: Permission of advisor and satisfactory completion of EED 870v, practicum in elementary education. 899 Thesis (1-6) Independent research project required of all students taking master of arts degree. See major advisor.
description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language learning.

6M0N Shakespeare (3) A critical study of selected major literary figures or major literary movements which have appeared since World War II.

495/895M Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures or major literary movements which have appeared since World War II.

860M Shakespeare (3) A critical study of selected major literary figures or major literary movements which have appeared since World War II.

496/896M Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics; applied linguistics, descriptive linguistics, teaching English as a foreign language. Prereq: English 458/858M and permission of the instructor.

497/897M The American Novel (3) A critical and historical study of the work of twelve or more significant American authors of the nineteenth and twentieth centuries. Prereq: English 486/886M or permission.

898M 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. Prereq: English 486/886M or permission.

891V Seminar: Introduction to Literary Research (3) A survey of research methods in literature and history, and interpretation, with a primary emphasis on methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing or permission of the chairman of the department of English.

840V Seminar: Literary Criticism (3) Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century England and twentieth century America. Prereq: Graduate standing or permission of the chairman of the department of English.

860V Seminar: American Literature (3) Individual research and group discussion relating to a general topic in American literature. The course may be repeated for additional credits under different topics, with permission of the chairman of the department of English.

851V Seminar: English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.

852V Seminar: English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.

853V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English authors and works of the Restoration and August Age (1660-1750). Prereq: Graduate standing.

854V Seminar: Victorian Literature (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission of the chairman of the department of English.

855V Seminar: Victorian Literature (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission of the chairman of the department of English.

856V Seminar: American Women Writers (3) The methods and results of linguistic geography, sociological desegregation, and modern studies with emphasis on American English in the community and the classroom. Prereq: English 458/858M or permission of instructor.

870V Seminar: American Literature (3) The methods and results of linguistic geography, sociological desegregation, and modern studies with emphasis on American English in the community and the classroom. Prereq: English 458/858M or permission of instructor.

891M Contemporary Poetry of England and America (3) A study of the English and American poetry, the important ideas it contains, and the relevant critical theory of the contemporary period.

893M American Poetry (3) The practice and theory of American poetry from the colonial period to the present day.

894M Studies in Language and Literature (3) Special topics (when offered) appear in class schedules. Complete syllabus available in English Department.

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

896/896M Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics; applied linguistics, descriptive linguistics, teaching English as a foreign language. Prereq: English 458/858M and permission of the instructor.

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853V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English authors and works of the Restoration and August Age (1660-1750). Prereq: Graduate standing.

854V Seminar: Victorian Literature (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission of the chairman of the department of English.

855V Seminar: Victorian Literature (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission of the chairman of the department of English.

856V Seminar: American Women Writers (3) The methods and results of linguistic geography, sociological desegregation, and modern studies with emphasis on American English in the community and the classroom. Prereq: English 458/858M or permission of instructor.

870V Seminar: American Literature (3) The methods and results of linguistic geography, sociological desegregation, and modern studies with emphasis on American English in the community and the classroom. Prereq: English 458/858M or permission of instructor.

891M Contemporary Poetry of England and America (3) A study of the English and American poetry, the important ideas it contains, and the relevant critical theory of the contemporary period.

893M American Poetry (3) The practice and theory of American poetry from the colonial period to the present day.

894M Studies in Language and Literature (3) Special topics (when offered) appear in class schedules. Complete syllabus available in English Department.
88 UNIVERSITY OF NEBRASKA AT OMAHA

846/863M Environmental Remote Sensing
(3) A seminar on various aspects of conventional low-altitude aerial photography through digital image processing on platforms such as "Skylab" and "Landsat" with emphasis on practical applications. Provides basic background for further environmental evaluation.

Prereq: Graduate standing.

890/909M Urbanization in Developing Areas
(3) The presented and morphological variety of types and cities found in presently developing areas of the world. The emphasis will be upon contrasting the cities of the developed and developing areas.

Prereq: Geog 463 or 464, 6 hours of geog., or junior standing and urban geog. For 890, 6 hours of geog. and Urban Geog. 892M.

849V Seminar in Geography (3) A student conference on significant ideas, methods, and theories in geography and philosophy in geography from classical Greeks to present. Prereq: Permission.

853V Seminar in Geography: Geophysical Methods
(3) The understanding and appreciation of techniques in geography. Emphasis in planning, exploring theory and design, graph theory and spatial statistics. Prereq: Permission.

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

871V Cultural Geography (3) The philosophical basis of cultural geography; interpretation of the cultural landscape. Prereq: Permission.

873V Geography of Agriculture (3) A systematic study of the characteristics of agriculture on a world-wide basis. Prereq: Permission and Geog 313 or Econ 313.

877V Advanced Geomorphology (3) A seminar and literature review on the present concepts in literature in the field of landform studies. Discussion will emphasize classic ideas as well as the modern concepts of climatic, dynamic, and quantified geomorphology. Some study of the quantified chronology will be necessary. Several optional Saturday field trips. Prereq: Geog 525V or 652V and 17 or 17U. Instructor permission.

885V Solis (3) An examination of the older geographical concepts of distribution, landform, and the new works concerned with soil forms on a regional, rather than zonal, basis. Prereq: Geog 106 or 107. Graduate, permission.

886V Independent Research (1-3) (May be repeated for a maximum of 3 hours.) Advanced study in the form of a major paper to give the senior or graduate student knowledge of experience in using government documents, professional and technical literature, and primary materials with a region. Must be under the supervision of the instructor who is particularly qualified for the topic. Prereq: Completion of the graduate general seminar or the local chapter of CTU national honorary geography fraternity. Prereq: Permission of department chairman.

885 Field Geography (3) A systematic discussion of techniques for studying and analyzing land use and land properties and their significance and nature of their patterns as a part of the whole geographic environment. Prereq: Permission.

894V Seminar in Advanced Concepts and Applications
(3) Designed for the graduate student desiring to do advanced work in remote sensing. Includes emphasis on photogrammetric sensors and especially digital processing of multispectral aerial and satellite applications are multi-disciplinary in nature. Prereq: GEOG 486/863M and Graduate Standing.

895V Land Use (3) A field course designed to understand, by actual field investigation, land use patterns in urban areas and relate the concentration of social, physical, and economic factors which lead to the shaping of the land use place. The major emphasis will be placed upon field investigations of land use patterns and their interaction with the functional region receiving the major consideration. Prereq: Geog 412.

897V Cartographic Methods (3) Teaches the student proper use of drawing instruments, effective layout and exposure to the latest cartographic techniques, leading to a high level of competence in the design and reproduction of maps.

877V Population Seminar (3) The significance of differences from place to place in the structure, size, and quality of human inhabitants and changes through time. Prereq: Permission. (Same as Soc 875V.)

880V Internship in Environmental/Regional Planning
(1-6) (Repeatable up to 6 hours) Introduces student to public agencies enabling students to gain knowledge and experience in comprehensive regional planning. Prereq: Permission, and 12 hours graduate credit in geography.

881V Urban Seminar in Metropolitan Planning and Development
(3) An overview of the present status of planning, land use, and difference in urban areas with special emphasis on structure of planning departments and the technical methods of land use. Prereq: 12 hours of advanced study in urban planning. Prereq: Permission. (Same as Soc 881V.)

888V/898V Internship in Social Gerontology Seminar On The Urban Community (2-6) An interdisciplinary course on the metropolitan community. Each semester various departmental and college offerings concerned with urban problems are put on broad interdisciplinary basis. Prereq: Experience working as a case worker or social worker in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, political science, and sociology).

916V Thesis (1-6) Independent research project written under the supervision of an adviser.


895 Topics in Regional Geomorphology of North America (3) A seminar on some landsystems ranging from North America from the perspective of a particular geomorphologist concerned. Planned within the general geomorphology of a specific region. Prereq: Permission.

977V (1-3) General Seminar (1 Required. Review of current research by geographers including nomenclature and ontological associations and initial thesis proposal.

914V Seminar in Social Gerontology (3) An introduction to the field of education for and about the elderly. Prereq: Permission of department and college offering.

947/955M Health Aspects of Aging (3) The study of aging around the world by a comparative method in the social, economic, and cultural framework. An exploration of some processes of the empirical research by elderly people. Includes courses in gerontology and permission.

948/948M Gerontology (3) The study of aging around the world by a comparative method in the social, economic, and cultural framework. An exploration of some processes of the empirical research by elderly people. Includes courses in gerontology and permission.

955 Administrative and Legal Concerns of the Elderly (3) Consideration of the legal concerns which are likely to arise as people age. Includes introduction to American legal system, and emphasis on underlying legal concepts and issues of special importance to older persons. Prereq: Gerontology 411/811, Applied Social Gerontology.

455/455M Health Aspects of Aging (3) The study of aging around the world by a comparative method in the social, economic, and cultural framework. An exploration of some processes of the empirical research by elderly people. Includes courses in gerontology and permission.

967V Directed Readings in Counseling and Gerontology (1-3) A study of recent and current literature on counseling with older people. Prereq: Gerontology 411M or (Cost 488M) Counseling major and permission.

977V Personal Values and Aging (1) Course designed to increase student self-awareness of personal values and feelings related to aging and the aged.
HEALTH, PHYSICAL EDUCATION AND RECREATION

General HPER

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

801V Research in Health, Physical Education and Recreation (3) An introduction to the nature and significance of research in HPER. Attention will be given to reading, evaluating, conducting, and applying research results to classroom situations. Basic statistical techniques will be covered. Prereq: Graduate student in HPER.

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

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

HEALTH EDUCATION

496/896M Topics in Health Education (3) An examination of current problems and issues in the elementary and secondary school health areas. Prereq: Permission of the instructor. The course covers selected topics regarding the scientific and medical disciplines. Prereq: Permission of the instructor. The course will be focused on psychological aspects, orthopedic aspects, prevention and rehabilitation, pedagogical aspects, legal aspects, and aging. Prereq: Basic courses in human anatomy, physiology, kinesiology, research methods, public health psychology and growth and development or special permission of the instructor.

Physical Education

822V Problems and Issues in Physical Education (3) An examination of current problems and issues in physical education. Special emphasis is given to problems that relate to the general aims and purposes of physical education. Prereq: Permission of the instructor.

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

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. Prereq: Permission of instructor.

828V Curriculum in Physical Education (3) A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.

830V Analysis of Research and Literature in Human Movement (3) Survey of research and literature in human movement for the purpose of understanding the student's role as a researcher. Prereq: For 455, six hours of health of permission of the instructor.

835V Elementary School Health Education: Selection of Content (3) This course is designed to provide the student with an in-depth study of selected content in health education. These selected content areas include: Drug education, nutrition, dental health, human sexuality, and personal hygiene. Prereq: Permission.

837V Improvement of Instruction in Physical Education (3) An examination and discussion of current programs, conditions, and materials within physical education. Emphasized is the improvement of each individual's teaching in the physical education setting.

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

845V Kinesiological Analysis of Motor Skills (3) An investigation of the biomechanical basis of motor performance. Emphasis is given to the descriptive analysis of sports skills and fundamental movement patterns and an examination of techniques for collecting biomechanical data.

850M Behavioral Aspects of Coaching Athletes (3) This course is designed to provide the graduate physical education student with an overview of the behavioral aspects of coaching athletes. The course will cover coaching as it relates to such areas as skills, abilities, and personality of the elementary school, junior high school, high school, and college athletes. Such personal factors as individual, intellectual, academic, emotional, competition, cooperation, morale, sportsmanship, and leadership will be discussed in terms of the effects on the athlete. Focus will be on the psychological research in the middle years and in later years. (3010) 850M Topics in Mens Health (3) 12 hours of psychology and/or gerontology or permission.

RESEARCH AND EVALUATION OF PHYSICAL EDUCATION (3) Analysis of tests, measurement apparatus, and testing procedures used in physical education. Includes a review of basic descriptive statistics. Practical experience in test administration is provided.

947/953M Exercise Physiology (3) A study of the major physiological systems of the human body with particular emphasis given to exercise physiology. Includes application of physiological concepts to training and conditioning. Prereq: HPER 288 or equivalent. F, SU.

RECREATION/LEISURE STUDIES

424/624M Organization and Administration of Recreation (3) Designed to provide a background of information on community recreation with special attention to organization, promotion, development from the administrative aspect. Prereq: For 824M, at least 9 hours of upper division courses in recreation or permission of the instructor.

430/630M Recreation Programming (3) An advanced study of recreational programming and planning with particular application of research techniques utilizing survey, analysis, case study, and experimental methods. Prereq: For 430, recreation major or permission of instructor.

451/851M Recreation Programs for the Mentally Retarded (3) Designed to explore recreation programs for the mentally retarded. Consideration given to developing an understanding of the relationship between recreation and the retarded person's potential for social independence living. Prereq: For 851M, junior standing or permission of the instructor.

454/854J Recreation Programming for the Mentally Retarded (3) Designed to explore recreation programs for the mentally retarded. Prereq: Junior standing or permission of the instructor.

535/855J Medieval Europe, 284-1095 (3) Establishment and development of the church and of feudal society from the decline of the Roman empire to the investiture struggle. Prereq: For 354, junior standing or permission of the instructor.

535/854J Medieval Europe, 1095-1290 (3) Religious, social, economic, political and intellectual developments of the early medieval period extending from 1095 to 1290. Prereq: For 354, junior standing or permission of the instructor.

535/853J Medieval Europe, 1095-1492 (3) Religious, social, economic, political and intellectual developments of the early medieval period extending from 1095 to 1492. Prereq: For 354, junior standing or permission of the instructor.

535/852J The Age of the Renaissance (3) An introduction to the economic, social, political, cultural, and intellectual changes that followed the crusades and the investiture struggle through the 16th century. Prereq: For 354, junior standing or permission of the instructor.

535/851J The Age of the Renaissance (3) An introduction to the economic, social, political, cultural, and intellectual changes that followed the crusades and the investiture struggle through the 16th century. Prereq: For 354, junior standing or permission of the instructor.

641/841J History of the South (3) Economic, social, and political development of the south as a region. Prereq: For 344, junior standing or permission of the instructor.

644/844J History of the South (3) Economic, social, and political development of the south as a region. Prereq: For 344, junior standing or permission of the instructor.

645/845J The American Frontier: 1600-1800 (3) A study of the frontier systems of the thirteen colonies and of Spanish and French exploration of the western movement of the United States to the Mississippi river. Prereq: For 344, junior standing or permission of the instructor.

681/861J The American Frontier: 1800-1900 (3) The trans-Mississippi west from the Louisiana Purchase and French days to the disappearance of the frontier around 1900. Prereq: For 344, junior standing or permission of the instructor.

682/862J Diplomatic History of The United States Before 1900 (3) A study of the foreign relations of the United States before 1900. Prereq: For 334, junior standing or permission of the instructor.

683/863J Diplomatic History of The United States Since 1860 (3) A study of the foreign relations of the United States since 1900. Prereq: For 334, junior standing or permission of the instructor.

684/864J History of Nebraska (3) From the earliest known records to the present. Prereq: For 334, junior standing or permission of the instructor.

684/864J History of Nebraska (3) From the earliest known records to the present. Prereq: For 334, junior standing or permission of the instructor.

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PRESIDENTIAL HISTORY

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

315/815J The American Frontier: 1600-1800 (3) A study of the frontier systems of the thirteen colonies and of Spanish and French exploration of the western movement of the United States to the Mississippi river. Prereq: For 313, junior standing or permission of the instructor.

316/816J The American Frontier: 1800-1900 (3) The trans-Mississippi west from the Louisiana Purchase and French days to the disappearance of the frontier around 1900. Prereq: For 313, junior standing or permission of the instructor.

331/831J Diplomatic History of The United States Before 1900 (3) A study of the foreign relations of the United States before 1900. Prereq: For 334, junior standing or permission of the instructor.

334/834J Diplomatic History of The United States Since 1860 (3) A study of the foreign relations of the United States since 1900. Prereq: For 334, junior standing or permission of the instructor.

341/841J History of Nebraska (3) From the earliest known records to the present. Prereq: For 334, junior standing or permission of the instructor.

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

353/853J Medieval Europe, 284-1095 (3) Establishment and development of the church and of feudal society from the decline of the Roman empire to the investiture struggle. Prereq: For 354, junior standing or permission of the instructor.

354/854J Medieval Europe, 1095-1290 (3) Religious, social, economic, political and intellectual developments of the early medieval period extending from 1095 to 1290. Prereq: For 354, junior standing or permission of the instructor.
39/1091 Topics in History (3) A pre-seminar on selected topics based on a consideration of interpretive historical writings and/or source materials. Permission of the instructor.

405/065M History of Women in The United States (3) Study of women's history from the prehistoric period to World War I. Prereq: For 405, junior standing or permission of the instructor.

406/066M History of Women in the United States, II (3) This course discusses the history of women in America including the study of feminist theorists. Prereq: For 406, junior professional and employment opportunities, careers of women and the New Feminism of the 1970's. Prereq: For 406, junior standing or permission of the instructor.

411/111M American Social and Intellectual History Since 1865 (3) Primarily a non-political approach to American history, this course will examine significant topics in American thought and society. Prereq: For 411, junior standing or permission of the instructor.

412/122M American Social and Intellectual History Since 1865 (3) Primarily a non-political approach to American history, this course will examine significant topics in American thought and society. Prereq: For 412, junior standing or permission of the instructor.

413/113M The Revolutionary Era, 1763-1789 (3) An analysis of the imperial and internal factors which led to the revolution and the formation of the new nation. Prereq: For 413, junior standing or permission of the instructor.

414/124M The Early Federal Period, 1789-1815 (3) A study of the interworkings of politics, economics, and foreign affairs in molding government during the formative years of the United States. Prereq: For 414, junior standing or permission of the instructor.

416/126M The Jacksonian Era (3) An interpretive study of the middle period of American history, emphasizing the role of Jackson and his period. Prereq: For 416, junior standing or permission of the instructor.

418/131M Civil War and Reconstruction (3) A political study of the period from 1865 to 1877. The background of the Civil War, the war years, and the reconstruction of the nation during reconstruction. Prereq: For 418, junior standing or permission of the instructor.

421/134M 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. Prereq: For 421, junior standing or permission of the instructor.

423/136M Century Since 1932 (3) A study of the history of the United States since Franklin Delano Roosevelt's election to the presidency. Prereq: For 423, junior standing or permission of the instructor.

424/138M Twentieth Century America Since 1932 (3) A study of the history of the United States from World War II to the present. Prereq: For 424, junior standing or permission of the instructor.

425/139M Intellectual History of Modern Europe From The Renaissance to The French Revolution (3) A study of the intellectual, political, religious, economic, scientific, and philosophical ideas that characterized European culture from the Renaissance to the French revolution. Prereq: For 425, junior standing or permission of the instructor.

426/140M Intellectual History of Modern Europe From The Early Nineteenth Century to The Present (3) A study of the most recent intellectual, scientific, and philosophical ideas of the last century. Prereq: For 426, junior standing or permission of the instructor.

427/141M Twentieth Century America Since 1932 (3) A study of the history of the United States from World War II to the present. Prereq: For 427, junior standing or permission of the instructor.
Home Economics

Education and Family Resources

807 Occupational Experience Programs (1-6) Preparation and objectives of the project method. Providing adequate educational experiences in administering, evaluating occupational experience programs. May include supervised occupational experience.

808 Special Topics (1-6) Focus on problems of contemporary concern in the area, implications for and application to the special setting in which learners serve in role of educator. Prereq: 12 hours home economics and permission of instructor.

Food and Nutrition

453/553 Cultural Aspects of Diet (3) Cultural approach to development of the dietary patterns of major world food groups. Factors involved in food habit alteration. Offered alternate years only. Prereq: FdNutr 241, 9 hours social science or permission of instructor.

453/553 Ecology of Malnutrition (3) Fundamental principles underlying the current world malnutrition problems. Investigation of projected future problems and schemes for their prevention and control. Prereq: FdNutr 241 or permission of instructor.

Human Development and The Family

455/555 Nutrition Throughout the Life Cycle (3) The role of nutrition in the physiological development throughout the life span including pregnancy, lactation, infancy, childhood, working age, and retirement. Prereq: FdNutr 241 or permission of instructor.

455/555 The Child and Family in The Community (3) Study of legislation and agencies pertaining to children and families. Field trips and supervised observation through contacts with community agencies. Offered alternate years only. Prereq: Lect 2 lab 3. Prereq: Permission of instructor.

Textiles, Clothing and Design

416/816 Principles of Tailoring (3) Theory of tailoring techniques, the design factors and the spatial arrangement of the fibers required to create tailored and mass produced tailored garment. Lect 2 lab 2. Prereq: Math 197 or permission of instructor.

808 History of Textiles (3) A study of the historical role of textiles, in the art of social and economic development of various cultures. Prereq: 9 hours textiles, clothing and design, 3 hours art history or a course in history of western world or permission.

Mathematics and Computer Science

Computer Science

311/811 Information Systems Analysis (3) Decision-making processes, from a computer science perspective. Prereq: CS 171 or 172.

312/812 System Design and Implementation (3) Principles and techniques of the design and implementation of information systems. Hardware and software selection and evaluation. Prereq: CS 311.

320/820 Programming Techniques (3) The study of software production and quality including correctness, efficiency, and psychometric factors. Prereq: Comp of CS 250, 251 or 252.

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

470/870 Compiler Construction (3) Assemblers, interpreters and compilers. Compilation, implementation of a compiler, including compile-time and run-time symbol tables, lexical, syntax, semantic, and error analysis. Prereq: Comp of CS 323 and CS 450 and CS 172.

849 Information Organization and Retrieval (3) Introduction to information processing as related to data bases, using 6 to 12 hours of automatic information systems, including techniques for organizing, searching, and retrieving structured and unstructured information on digital computers. Prereq: CS 323 and CS 345 recommended.

867V Algorithmic Combinatorics (3) Classical combinatorial analysis, graph theory, trees, network flow, matching theory, extremal problems, block design. Same as Math 867V.


882 Advanced Numerical Methods II (3) Solutions to boundary value problems, numerical solutions to partial differential equations. Same as Math 882.

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

895V Data Base Design and Organization (3) Design and implementation of information systems. Prereq: CS 670 or permission of instructor. Prereq: Math 197 or permission of instructor.

895V Data Base Design and Organization (3) Design and implementation of information systems. Prereq: CS 670 or permission of instructor. Prereq: Math 197 or permission of instructor.

Mathematics

311/811 Differential Equations (3) Methods of solving ordinary differential equations. Prereq: Math 196. It is further recommended that the student has taken Math 197 or takes it concurrently.

323/823 Introduction to Analysis (3) Provides a theoretical foundation for the calculus and in particular the study of real and complex analysis. Prereq: Math 196, Math 197, Math 201 or permission of instructor.

330/830 Numerical Methods (3) Solving equations and systems of equations, interpolation, numerical differentiation and integration, numerical solutions to ordinary differential equations, numerical calculations of eigenvalues and eigenvectors, analysis of algorithms and errors, computational efficiency. Same as CS 830. Prereq: Math 196, Math 197, Math 201 or permission of instructor.

350/850 Selected Topics in Mathematics (1-6)

This is a variable content course with 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. Prereq: Math 350 for Math 850. Students may not apply for more than 300 hours of Math 850 toward the minimum major requirements. Math 850. Prereq: Math 241 or Math 370. Prereq: Permission of instructor.


370/870 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.

411-412/811M-812M Abstract Algebra (Each 3) An advanced undergraduate (beginning graduate) course in abstract algebra, including groups, rings, and fields. Elements and elementary proofs are included. Prereq: Math 370.
839V Harp

service teacher. Prereq: Permission.

Study of advanced conducting problems in

band

301/SolJ Elements or Electronics

mmds and computers, the nature of personal

brain, the extent of similiarities between human

science teachers at the secondary level. Con­

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Physics

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495 and

495/495M The Special Theory of Relativity
(3) This course includes the general relativity

ground, the important experiments, Lorentz

transformations, covariant formulation, appli­
cations to electronics, communications, and

philosophical implications of special relativity

including relativistic electrodynamics. Prereq:

Calculus and Physics 112 or 112.

412/812M Atomic and Molecular Physics
(3) This course consists of an introduction to

quantum theory to atomic and molecular physics.

Topics include Schrodinger theory, solution of

square well and square barrier potential equa­
tions, separation of motion, selection rules, matrix

elements, spin-orbit coupling, and the Raman

effect. Prereq: Physics 111-112 or 211-212

and Physics 325 or the equivalent.

414/814M Nuclear Physics (3) Methodology and

principles of nuclear science, nuclear struc­
ture, artificial and natural radioactivity, muon

tops, tracer, and technetium emission health

physics, reactor theory. Prereq: Calculus

and General Physics I (112). Prereq: Calculus

and General Physics I (112)

435/835M Astrophysics (3) Physics and theory of

the physical characteristics, distribution, and

space motion of stars. Prereq: For 435, Calculus

and Physics 325, or permission of the instruc­
tor. Prereq: General physics and permission of

the instructor. 435/835M Quantum Mechanics
(3) This is a rigorous introduction to quantum

mechanics. The student must have a familiarity

with the methods of Schrodinger's wave mechanics

and Heisenberg's matrix mechanics. Using these techniques the following topics are discussed: Particles in

potential wells, hydrogen atom, two-dimensional and

three-dimensional periodic potentials, quantum

bonding, for 835m, Calculus, Physics 325, or

permission of the instructor.

437/837M Electricity and Magnetism
(3) An advanced discussion of electrodynamics

and magnetostatics as well as a theory of light.

Prereq: Calculus, Physics 325, or permission.

376/876M Electricity and Magnetism
(3) A course in electrodynamics. Topics include

well's equations and methods for their solution,

conservation laws, boundary conditions, poten­
tial, and transformations of the fields. Prereq:

Physics 325, or permission.

380/880M Thermodynamics and Statistical

Mechanics (3) The topics of thermodynamics

include various equations of state, first and sec-

ond laws of thermodynamics, thermodynamic

potentials and their use. In addition, an intro­
duction to classical statistics, Bose-Einstein and

Fermi-Dirac statistics and transport of quan­
tum phenomena is given. Prereq: Calculus and

Physics 112 or 112.

405/805M Solid State (3) Behavior of materials in

the solid state as concerns energy levels, wave

mechanics, optical and electrochemical pheno­
mena. Prereq: Calculus and Physics 112 or 112.

464/804M The Legislative Process (3) A compre­

hensive study of the legislative process of the

Congress of the United States. Prereq: Political

465/805M The Judicial Process (3) This is a course

in the operation of the judicial system. It ex­

amines the federal and state courts; their powers,

judicial selection, the bar, and the role of the

judges. Prereq: For 465, Political Science 110

and junior standing.

412/812M Public Opinion and Political Behavior
(3) Analysis of the political socialization process

as it relates to opinion formulation and partici­

pation. Prereq: For 412, on the operation of the

political system. Prereq: For 412, junior

standing.

417/817M Constitutional Law: Foundations
(3) Examination of the principles, design and

institutional structure of the American constitu­

tional system. Analysis of Declaration of Inde­

pendence, Articles of Confederation, Constitu­tion

al Convention, ratification debate. Stress laid

on Federalist Papers and on reform

crization of Constitution.

418/818M Constitutional Law: The Federal Sys­
tem (3) Analytical examination of American

constitutional law regarding the relations of na­
tion and state (Federalism) and the powers of the

state governments. (Judicial, Congressional

and Executive).

419/819M Constitutional Law: Civil Liberties
(3) A study of the First Amendment and the

Civil Liberties Act of 1966. Prereq: For 419,

Physics 112 or 112 and Calculus I and II (Phys

113 is helpful). Prereq: Calculus and Physics

325 or permission.

420/820M International Politics of Asia (3)

Analysis of contemporary relations among the

large powers with emphasis on the great powers;

and the totality of the international system. Ex­

phasis on 1st, 4th, 5th, 6th, 8th, 13th, 14th, and

15th Amendment cases. Prereq: Calculus

(III). Prereq: Calculus and Physics

325 or permission.

420/820M International Political Theory
(3) Analysis of contemporary relations among the

Asians as a part of the international system.

Prereq: Calculus and Physics 325 or permission.

424/824M Foreign Policy of The U.S.S.R. (3)

A study of the foreign policies of the

Soviet Union and its world role. Prereq:

13th, 14th, and 15th Amendment cases.

Prereq: Calculus and Physics 112 or 112 and

Calculus and Physics 325, or permission.

425/825M International Relations (3) Methods

of studying problems of international politics.

Prereq: Calculus and Physics 325 or permission.

427/827M Problems of International Relations
(3) A study of the international problems of the

two major superpowers. Prereq: Calculus

and Physics 325, or permission.

431/831M Political Theory I (3) Reviews and

analyses the leading political theories of western

man from the Hebrews and Greeks to the mid­

17th century. Prereq: For 431, junior

standing.

432/832M Political Theory II (3) Continues the

review and analysis of the leading political theo­
ries of western man in the 17th and 18th cen­
turies. Prereq: For 432, junior standing.

433/833M Political Theory III (3) Continues the

review and analysis of the leading political theo­
ries of western man in the 19th and 20th cen­
turies. Prereq: For 433, junior standing.

435/835M Democracy (3) A basic study of the

tree, practice and practitioners of political de­

ocracy, its roots, development, present appli­
cations and problems and future. Prereq:

For 435, junior standing.

436/836M Dictatorship (3) A basic study of the

tree, practice and practitioners of political dic­
tatorship, its roots, development, major 20th cen­
tury application and basic tenets. Prereq: For

436, junior standing.

437/837M Commnication (3) The Mass media

as it is an impactive to political power, its

world-wide extension, and the threat it poses for

the world in the hands of the Soviet Union and

others.

459/859M Government and Politics of Great

Britain (3) A comprehensive study of the British

politics and government. Emphasis will be fo­

focused on the formal institutions, political cus­
toms and practices of the British political

system. Prereq: For 450, junior standing.

492/892M Topics in Political Science
(3) A pro­

seminar on selected topics based upon analysis

of the literature of political science and/or pri­

mary source materials. Prereq: For 492, junior

standing or permission of the instructor.

609V Seminar in The Research Methods of

Political Science and Public Administration (3)

A critical investigation of the methods of data

collection and the impact of legal and public

administration research. Prereq: Permis­
sion of the instructor. (Also listed under

Public Administration)

804V Seminar in American Government and

Politics (3) A critical analysis of selected aspects

of the structure and function of the American

political system with emphasis on the political

search by the student. Prereq: Permission of

graduate advisor.

815V Seminar in Public Law (3) Practical meth­

ods of research as applied to specifically

identified problems in the student's area of

constitutional, and/or international law. Prob­
lems studied will correspond to the area of

interests of the student, either to resolve a

problem given by the professor or to support a

thesis for the student. Prereq: Senior standing.

829V Seminar in International Politics (3)

An examination of the theoretical frameworks

advised for the systematic study of international
relations, with application to particular problems in international relations. Prereq: Permission of graduate advisor.

385V Seminar in Political Theory (3) Analysis of the role of ideas in normative, empirical, and ideological political theory and their impact upon the development of political institutions. prerequisite: Permission of political theory or permission of graduate advisor.

386V Seminar in Comparative Politics (3) An examination of the nature, theories, and literatures of comparative politics and the evaluation of the theories by application to contemporary political systems. Prereq: Permission of graduate advisor.

387V Seminar in Comparative Politics: Emerging Areas (3) Research, analysis, and writing on topics that represent the particular aspects of the governments, politics, and political problems of emerging nations. Prereq: Permission of graduate advisor.

388V Independent Study in Topics in Urbanism (3-6) Individual student research on an individual basis under faculty supervision in topics pertinent to urbanism. Prereq: Undergraduate major in one of the social sciences. (Also listed under economics, geography, and sociology.)

389V-394V Interdisciplinary Seminar On The Urban Community (3-6) An interdisciplinary course in the metropolitan community in which the social, economic, and political functions of various departments and college offerings combine to form communities, and in which students are put in broad interrelated focus. Prereq: Undergraduate major in one of the social sciences plus 6 hours of psychology, including Psychology 101 or permission. (Also listed under economics, geography, and sociology.)

390V Readings in Political Science (3) Specially planned readings in political science for the graduate student who participates in problems in the completion of his degree program. Prereq: 6 hours of psychology or under supervision of a graduate advisor.

390P 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 scholarship, capacity to design, conduct, and complete an independent, scholarly research project. Prereq: Graduate standing. The teacher of the research topic and the completed project must be approved by the student's departmental committee. Prereq: Permission of graduate advisor.

Psychotherapy
401/801M History of Psychology (3) A study of the origins, development, and nature of psychology and its relation to external events; an historical view of psychology. Prereq: 101 and 801. For 401, junior standing.

406/806M Environmental Psychology (3) A study of the factors of natural and artificial environments on human behavior. Particular emphasis

tions with social distance, territoriality, privacy and such. Prereq: Psychology 101 and 801. Experimental Psychology with emphasis upon research, development and use of psychological tests evaluating the theories by application to contemporary political systems. Prereq: Permission of graduate advisor.

407/807M Cognitive Processes: Thinking and Imagination (3) An exploration of historical and contemporary theories of cognition. Prereq: Six hours of psychological experiences and cognitions, including concepts, problem solving, creativity, memory, and symbolic representation of ideas. Prereq: For 807M, Psychology 301 or 904.

412/812M Research Methods (3) Methods for gathering and evaluating information in psychology with emphasis on the design of experiments. Prereq: Psychology 213 or equivalent.


427/827M Animal Behavior (3) Behavior of diverse animals that illustrates 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: Psychology 101 and Biology 175 or permission. (Same as Biology 427 and 827M.)

428/828M Animal Behavior Laboratory (1) Laboratory and field studies of animal behavior with an ethical emphasis. Classical laboratory experiment pertains to the behavior of a wide spectrum of species, with emphasis on broad species diversity. Prereq: 428/828M or permission of instructor.

433/833M Individual Differences (3) A critical study of the theories of individual differences in the evolution of the human species. Emphasis is placed upon the influence of the age, ancestry, sex, physical traits, and environment in causation of individual differences. Prereq: Psychology 101 and 801.

434/834M Psychosomatic Psychology (3) The study of Sigmund Freud, psychoanalytic theory, and current emphasis upon the relationship of personality and health. Prereq: Psychology 213 or permission of graduate advisor.

444/844M Abnormal Psychology (3) A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy, and prognosis of syndromes are discussed. Prereq: Psychology 213 or equivalent and Psychology 343.

445/845M Personality Theories (3) A comparative approach to the understanding of personality theory emphasizing the conflicts, influences, and consistency approaches to personality. Prereq: Psychology 343 and senior standing or permission.

447/847M Jungian Psychology (3) To become familiar with Carl Jung's theories of personality, his methodology, philosophy, and interests.

448/848M Eastern Psychology (3) Theory and techniques of the Eastern traditions with emphasis on experiential understanding. Daily practice of meditation required.

455/855M Psycholinguistics (3) A discussion of the literature concerned with such psycho­ logical phenomena as human languages, both natural and artificial, and their development relative to the linguistic variables of sentence structure, meaning, and speech sounds, and the use of language. Prereq: permission of instructor.

455/855M Retardation (3) This course considers such topics as general retardation, intellectual function originating during the developmental period and associated with impairment in adaptive behavior. Research is emphasized. Prereq: Psychology 431/831M; or Psychology 213 or equivalent and Biology 175 or 465/865M.

459/859M Psychology of Exceptional Children (3) A study of the special problems of children and young persons with learning, auditory, or motor­ ical impairments, orthopedic anomalies, intellectual retardation, senility, speech disorders, emotional or social maladjustments, learning disabilities or cultural problems; and characteristic relationships of parents, professionals, and others with these persons. Prereq: Permission.

461/861M Engineering Psychology (3) The methods of experimental psychology are discussed as they relate to problems of designing machines for efficient human use. Prereq: Psychology 101 and 801. (Same as Engineering 461 and 861M.)

463/863M Techniques of Programmed Instruction (3) An introduction to methods and techniques used in the production of training programs, with special emphasis on the production of educational machines for efficient human use. Prereq: Psychology 101 and permission of instructor.

800V The Profession of Psychology (3) A re­ view of the history, characteristics, and problems of the profession including such topics as ethics, professional organizations, job and educational possibilities. Prereq: Permission of instructor.

805V Introduction to Therapeutic Techniques With Children (3) The purpose of the course is to become familiar with play therapy, a technique (or substantially related). Prereq: Psychology 213 or equivalent and Psychology 343.

814V Nonparametric Statistics (3) A study of distribution-free statistics with particular empha­ sis upon nonparametric tests; their application to research problems in social behavioral sciences. Prereq: Psychology 213 or equivalent and Psychology 343.

820V Psychological Assessment (3) A study of the theoretical and practical problems related to the field of psychological testing and the use of psychological tests in various situations: measurement, test development, and the use of psychological tests in counseling and interpretation. Prereq: Psychology 213 or equivalent.

850V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication with emphasis upon the history and their applications in various professional interests. Prereq: Psychology 213 or equivalent and permission of instructor. (Same as Speech 850V)

851V Advanced Educational Psychology (3) A study of the principles of learning theory and their application to problems of contemporary education, particularly to those problems existing in the classroom. Prereq: Psychology 213.

852V Clinical Assessment I: Foundations (3) This is an introductory or survey course on the clinical I and subjective measures of human assessment. It is intended to serve as the foundation for more advanced study of assessment according to disciplinary specialization. Clinical considerations are applied to professional judgment, diagnostic procedures, and psychological assessment of the normal and pathological personality. A study of case materials, rating scales, standardized intelligence and personality tests, objective tests, and critical social issues (relevant to assessment). Prereq: Admission to graduate study in psychology, social work, or education; Psychology 851 or equivalent recommended.

853V 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 and Psychology 431/831M or 832V and admission to either psychological assistant or school psychologist program.

854V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon educational testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree and Psychology 431/831M or 832V and admission to either psychological assistant or school psychologist program.

855V Introduction to Therapeutic Techniques With Children (3) The purpose of this course is to become familiar with play therapy, a technique (or substantially related) to the study of learning with children. The historical and methods of each of the research with olav thcranv is considered.

856V Seminar in Social Psychology (3) An introduction to the study of social behavior and the human mind with emphasis on the role of social behavior in individual behavior. Prereq: Sociology 101 or permission of instructor.

857M Learning Theories and Applications (3) An introduction to the study of learning processes and their applications to problems of social behavior. Prereq: Sociology 101 or permission of instructor.

858M Social Psychology: Personality and Society (3) An introduction to the study of personality and society with emphasis on the role of personality in social behavior. Prereq: Sociology 101 or permission of instructor.

859V Seminar in Community Psychology (3) An interdisciplinary course in the study of contemporary theories of community psychology and their relationship to urban and suburban environments. Prereq: Psychology 213 or permission of instructor.

860V Research Methods (3) An introduction to methods of research and their application to the study of social behavior. Prereq: Sociology 101 or permission of instructor.
856V Learning in Children (3) A course dealing with learning in infants, children, and for comprehensive understanding, and advanced adults. Research relevant to developmental differences in learning ability will be discussed. Content areas include measures, learning methodology with infants and children, learning in infancy, probability learning, trailed and non-trial learning, reversal shift learning, interaction, habituation and imitation learning.

858V Personality Modification (3) A course dealing with the techniques, rationale, and research literature of changing behavior through reinforcement processes. Emphasis will be placed on such purposes, and the role of personality development, single-subject research designs, and a broad range of behavioral techniques in the literature. Prereq: A minimum of one course in learning theory. (PSY 857, 857Y, 904, or equivalent) and permission.

857L Laboratory in Applied Behavior Analysis (3 hrs) Laboratory work in Applied Behavior Analysis. Psychology 957 (Applied Behavior Analysis) consisting of the systematic application of behavioral technology within the framework of single-subject experimental designs. Emphasis will be on the modification of behavior, including analysis and interpretation of cognitive, social, or behavioral problems. Prereq: Psych 857 or permission.

958 Personality Assessment (3) A course dealing with tests and techniques for evaluation of personality characteristics of individuals. Prereq: An advanced graduate student in psychology who is enrolled in a program of studies leading to certification as school psychologists. Prereq: At introductory course in group testing: psychology 213 or equivalent, and permission.

959 Seminar in Developmental Psychology (3-9) Faculty and student presentations on one or more of the following topics: newborn and early childhood, middle years and late years. Prereq: Psychology 959.

960 Proseminar: Personality (3) A course providing comprehensive coverage of psychological theories, research findings, and controversies in social psychology. To be offered in the course will be expected to develop a critical understanding of key issues in psychology. (3) Social and personality development, and various aspects of personality in infancy and childhood. Prereq: Permission of the instructor.

961 Industrial Training and Development (3) An advanced course in industrial psychology. Emphasis will be on problems of conducting training programs in response to actual industrial situations. Prereq: Permission of the instructor.

962 Industrial Training and Development (3) An advanced course in industrial psychology. Emphasis will be on problems of conducting training programs in response to actual industrial situations. Prereq: Permission of the instructor.

963 Seminar in Applications of Non-Verbal Communication Theory (3) Theories and research relating to non-Verbal communication, analysis of non-verbal interaction within families, systems, and institutions. Emphasis will be on the modification of behavior, including analysis and interpretation of cognitive, social, or behavioral problems. Prereq: Psych 857 or permission.

964 Seminar in Small Group Communication (3) Research and theory in the processes of small group interaction, motivation and leadership, research procedures; approaches to teaching a discussion course. Prereq: Communication 941 or 949, or permission of instructor. (Same as Communication 941 and Sociology 945)

965 Seminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

966 Seminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

967 Topical Seminar in School Psychology (3-6) A course dealing with the teaching and learning of psychological behavior. Prereq: Permission of instructor.

968 Seminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

969 Proseminar: Personality (3-9) A course providing comprehensive coverage of psychological theories, research findings, and controversies in social psychology. Topics will include socialization, person perception, interpersonal attraction, leadership and group effectiveness, and attitude change. Prereq: Permission of the instructor.

970 Proseminar: Experimental Social Psychology (3-9) A course providing comprehensive coverage of psychological theories, research findings, and controversies in social psychology. Topics will include socialization, person perception, interpersonal attraction, leadership and group effectiveness, and attitude change. Prereq: Permission of the instructor.

971 Proseminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

972 Proseminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

973 Proseminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

974 Proseminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.

975 Proseminar: Personality (3) A course focusing on the role of personality in the development, facilitation and barriers of human development. Prereq: Permission of the instructor.
Public Administration


441/841M Public Personnel Management (3) A study of the personnel process in the American government. The processes and problems of recruiting, selecting, training, and evaluating personnel are examined as well as problems in personnel leadership, neutrality, allocation, and performance. Prereq: For 441, P.A. 317, junior standing. For 841M, P.A. 317.

443/843M Municipal Administration (3) The administrative structure and administrative practices of the various cities covering such areas as finance, personnel, public works, public safety, health, utilities, and planning. Prereq: For 443, P.A. 317, senior standing. For 843M, Pol Sci 301, P.A. 317.

800V Seminar in The Research Methods of Political Science (3) A study of the research methods and design of public administration research. (Also listed under the title Research Methods). Prereq: 317, permission of graduate advisor.

805V Survey of Public Administration (3) This have had no undergraduate Introduction to Public Administration course work. It involves the study of the processes and problems of the public administration process. This course does not count toward the 36 hours of credit required for the MPA degree. Course in American government or permission.

810V Seminar in Public Administration (3) An introduction to the study of the processes and problems of public administration. Prereq: Permission of the instructor.

815V Seminar in International Behavior (1-6) Faculty supervised experience in industry or business in bridging the gap between the classroom and a job, emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Permission of department and admission to doctoral program.

919 Research Other Than Thesis (1-12) Research work under supervision of a faculty member. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level and permission of the department.

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

998 Internship in School Psychology (3) A systematic exposure to the practice of psychology in the schools. School consultation in a variety of educational settings will be undertaken. The student is required to maintain a contractual agreement between the intern and the appropriate university supervisor. Prereq: Completion of 4 hours of Psychology 997.

SOCIOLOGY

481/881M Metropolitan Planning and Development (3) An overview of the processes and methods of planning development, compartmentalized plans, and problems and solutions of metropolitan planning and development. Organization, government, and planning from pol sci, soc, or econ department. (Also listed under the title Metropolitan Planning and Development). Prereq: Permission of the instructor.

487/887M Adult Group Leadership (3) A study of adult groups in modern society and the characteristic roles of effective leadership in all types of groups. (5,5)

490/890M Problems: Post-Secondary/Higher Education (3) This course covers the development, current status and future direction of the problems of post-secondary/higher education in the United States. Its major focus is on the problems and issues confronting postsecondary/higher education in the future. (5,5)

800V Special Studies (1-3) A series of intensive courses especially for teachers in service who want to pursue special studies in private and public school programs. (5,5)

810V Research Project (1-3) Individual or group study and analysis of specific problems in schools. Typical problems may include surveys, school finances, transportation, school building construction, maintenance, and operation, curriculum and pupil personnel.

815V Practicum Teaching-Community and Junior College (3) The practicum is intended for those in-service teachers who want to become vocational or academic instructors at the community or junior college level. The eligible student will be placed in a practicum situation in a recognized teaching field under faculty supervision. Courses are scheduled as regular seminar, or workshops, according to purpose.

810V Research Project (1-3) Individual or group study and analysis of specific problems in schools. Typical problems may include surveys, school finances, transportation, school building construction, maintenance, and operation, curriculum and pupil personnel.

849 Seminar in Secondary/Post-Secondary Education (3) A study of the basic philosophy underlying vocational education and the principles and practices in the various fields. Prereq: Permission of the instructor.

851/851M Principles of Adult Education (3) An introduction to the study of adult education as a major development in contemporary America. The course surveys the major problems and principles of adult education and the foremost agencies providing programs. F,S,Su

862/862M Literature for the Adolescent (3) This course is designed to assist library media specialists, English teachers, teachers of the humanities and other classroom teachers to gain information about adolescents, their reading and viewing habits and interests. Factors which affect the content, form, and goals of literature are considered. Form, will be examined in depth. Prereq: 266M, LSH 120, or permission of instructor.

863/863M Seminar in Political Science (3) A seminar in political science with particular emphasis on the political processes and values utilized in curriculum planning. Strong emphasis is placed on cultural and social analysis of teacher behavior in a
(3) This course is designed especially for the teacher who is interested in the implementation of instruction in foreign language. The course will encompass a whole range of opportunities for improvement of instruction of such languages, but will concentrate on current developments in audio-lingual methods which will have implications for the classroom teacher.

400V Improvement of Instruction of Oral Language Skills (3) This course is designed to familiarize secondary school teachers with implications of recent research in the teaching of English. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.

450V Introduction to Special Vocational Needs (3) Designed for secondary education personnel who desire knowledge of the history and current status of Special Vocational Needs, the course will assist in developing a better understanding of handicapped and disadvantaged students. Prereq.: Admission to Graduate College.

471V Seminar in Social Studies Curriculum Construction (3) This course is designed for secondary school students to begin micro and macro social work practice. Prereq.: SW 816V, concurrent with SW 812Y, SW 814V, or permission.

475V Seminar in Special Education (3) This course is designed for social work students which surveys basic theories and techniques in various modalities used in social work practice with individuals, families and small groups. Prereq.: SW 814V, concurrent with SW 810Y, or permission.

500V Micro Practice Courses (3) These courses are designed to provide the student with knowledge of theories and techniques in social work practice. Prereq.: SW 812V, SW 814V.

700V Human Behavior and the Social Environment (4) An introductory course to provide the student with an overview of the social work profession as it relates to individuals, families, and groups. Prereq.: SW 810Y, SW 817V, or permission of instructor.

715V Micro Practice Courses (3) These courses are designed to introduce graduate students to beginning micro and macro social work practice. Prereq.: SW 810Y or concurrent or subsequent to SW 812V, SW 814V.
854V Gestalt-Transactional Analysis (3) An intensive didactic and experiential course, designed to give students in-depth knowledge and practice skills in the combined use of transactional analysis and Gestalt therapy.

Prereq: SW 820 or permission.

827V Issues in Human Sexuality for Social Work Students (3) An interdisciplinary, didactic review of current theory and research in human sexuality, with a special focus on psychosexual aspects of human sexuality. It is designed to give the student who has some background in the personal and sociocultural dynamics influencing communications regarding sex, programs of sex education for specific age groups, historical development of Government, current issues in human sexuality, and the causes of sexual dysfunction and the role of the mental health professional for treatment. Prereq: Graduate standing or the various issues and methodology of research methods course, or permission of the instructor.

850V Supervision in Social Work (3) To provide the student with knowledge of theories and practice in techniques of supervision and role development. Prereq: Graduate standing or the various issues and methodology of research methods course, or permission of the instructor.

855V Advanced Policy Analysis and Implementation (3) An advanced course in policy analysis, techniques, policy development and implementation. Prereq: SW 805, SW 814 and SW 817; undergraduate equivalent; or permission.

Social Problem/Condition Courses

469/869M Social Work in Child Welfare (3) This course is an elective for the advanced student who is seeking substantial specialized knowledge of current social work practice in mental health and mental retardation. Prereq: Senior social work major, graduate social work student, permission of instructor.

452/852M Social Welfare and Institutional Racism (3) An examination of racism in social institutions, including social welfare, with particular attention to the implications for social work practice and the social work practitioners. To increase the students understanding of the different ways that racism affects the behavior of both racial minorities and whites. Prereq: Senior social work majors, graduate social work students, or permission of the instructor.

463/863M Social Work in Health Care Programs (3) A critical review of social work practice in health care programs, as it relates to current issues in this field. The course provides for learning in both the theoretical and practical aspects of health care delivery. The students will have an opportunity to examine and experience several aspects of health care delivery and the social worker's role in it. Students will also be exposed to the various resources which are available in the provision of health care and some of the administrative mechanisms that are currently being employed in these settings. Prereq: SW 810 or permission of the instructor.

466/866M Social Work in Child Welfare (3) The course is designed for the student to acquire an understanding of the primary child welfare programs and services designed to strengthen family living. The three primary types of child welfare programs include (1) child protection, (2) supportive services, and (3) substitutive services. Prereq: SW 814V and SW 817V; undergraduate equivalent; or permission.

887 The Human Ecology of Child Abuse and Neglect: An Analysis of Research and Intervention (3) This course will provide a review of existing literature on the meaning, origins, and consequences of child abuse and neglect. The student will acquire the significant approaches to prevention and intervention. Prereq: Graduate standing.

854V Social Work Planning (3) An advanced course in social planning, including administrative practice for social services, comprehensive planning for social welfare programs, and planning for social change. Prereq: SW 814V and SW 817V; undergraduate equivalent; or permission.

899V Master’s Thesis (6) Under the supervision of the thesis instructor and the thesis committee, the student will complete a thesis research. Prereq: SW 889 or equivalent, or permission.

Sociology

Anthropology

421/821M Cultural Anthropology (3) Arts, economics, family, kinship, politics, religion, sub­ sistence, technology, and world view are approached as parts of an integrated whole, a way of life in human society. Illustrations will be drawn from a number of societies, anthropological theoretical perspectives. Prereq: Permission of the instructor.

422/822M North American Archaeology (3) American Indian culture is adapted to the group. Prereq: Permission of the instructor or the various issues and methodology of research methods course, or the various issues and methodology of research methods course, or permission of the instructor. Prereq: Permission of the instructor.

452/852M Psycholinguistics (3) A discussion of the various issues and methodology of research methods course, or the various issues and methodology of research methods course, or permission of the instructor. Prereq: Permission of the instructor.

899V Research Other Than Thesis (3) Students prepare a research proposal, carry out the research, write a final report, and present the purpose, design, outcome and meaning of the study. Prereq: SW 892 or SW 894 or permission.

889 Master’s Thesis (6) Under the supervision of the thesis instructor and the thesis committee, the student will complete a thesis research. Prereq: SW 889 or equivalent, or permission.
roles, self-control. Analysis and measurement of behavior in the context of social activities. Prereq: For 401, 9 hours of sociology, including 101 and 301. For 801M, permission of the instructor.

402/802M Collective Behavior (3) Group and individual processes of human social activities and institution formation are studied. The development of social processes and the role of subcultures in new movements and organizations through conflict and accommodation; sociocultural changes in response to urbanization and technological change. Prereq: For 402, 9 hours of sociology, including Sociology 101 and 301. For 802M, permission of the instructor.

410/810M The Community (3) A basic course in community sociology. Sociological theory and method, and the theories of empirical research are applied to published studies of communities in the United States and other countries. Comparative social scientific method is elaborated as it is determined to data derived from community investigations. Prereq: For 410, 9 hours of sociology, including Sociology 101. For 810M, permission of the instructor.

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

421/821M Urban Sociology (3) A geography of cities with a view to the present. The viewpoint of the city is placed in the community. Prereq: For 421, junior standing. For 821M, permission of the instructor. (Same as Geography 421.)

433/833M Sociology of Deviant Behavior (3) A theoretical analysis of deviant group behavior and subcultures in community standards of conventional behavior as expressed in deviance. Prereq: For 433, 9 hours of sociology, including Sociology 101. For 833M, permission of the instructor.

414/814M Urban Sociology (3) Examinations in urban sociological perspectives, urbanization processes, and the variety of metropolitan communities; urban stratification, metropolitan growth, urban neighbor groups, community power and urban policy and planning. Prereq: Permission of instructor.

511/811M American Family Problems (3) (1) A theoretical treatment of the family as a social institution. The essential functional elements and the manner in which they fit in to the social structure are discussed. Prereq: For 411, 3 hours of sociology; for 811M, permission of the instructor.

852M Advanced Qualitative Methods (3) This course is designed to familiarize students with contemporary which the social sciences explore social and cultural relations in natural settings. Students will conduct individual and/or group field projects. Prereq: Permission. Permission. Prereq: Permission of instructor. For 852M, permission of the instructor.

855M Advanced Quantitative Methods (3) This course provides an advanced consideration of methodologies and the use of the computer in the generation and management of quantitative social science data. Students will participate in the involvement of the process of decision making and evaluation applied to the study of various types of complex problems and index/scale construction and evaluation. Prereq: Permission of the instructor.

453/853M Seminar in Social Research (3) This seminar will be directed toward understanding the use of the research process, and practical problems faced by the researcher in the research of the subcultural phenomenon. Prereq: For 453, junior standing and permission of the instructor. For 853M, permission of the instructor.

465/865M Seminar in Sociology of Religion (3) This seminar will be directed toward understanding the role of religion in society, including Sociology 101. For 865M, permission of the instructor.

581V Seminar in Social Psychology (3) Asigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to the sociology of religion, and the selection and study of selected substantive topics of sociology, Prereq: Graduate standing and permission of instructor.

871V Seminar in Sociological Theory (3) Asigned reading, discussion, specialization individual work leading to the writing and presentation of a paper applicable to the sociology of theoretical issues in sociology selected by the instructor. Prereq: Graduate standing and permission of instructor.

875V Seminar in Applications of Sociology (3-6) Asigned reading, with emphasis in the practical application of sociological theory and method to applied social problems, research, and social policy. Prereq: Graduate standing and permission of instructor. (Same as Sociology 855V.)

879V Seminar in Research Methods (3-6) Asigned reading, with emphasis in the practical application of sociological theory and method to applied social problems, research, and social policy. Prereq: Permission. (Same as Sociology 855V.)

899V Seminar in Research on an Individual Topic (3-6) Asigned reading, with emphasis in the practical application of sociological theory and method to applied social problems, research, and social policy. Prereq: Permission. (Same as Sociology 855V.)

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899V Seminar in Research on an Individual Topic (3-6) Asigned reading, with emphasis in the practical application of sociological theory and method to applied social problems, research, and social policy. Prereq: Permission. (Same as Sociology 855V.)
240C/840C History of the Deaf (3)
An introduction to the history and development of the Deaf community, with an emphasis on the cultural aspects of deafness.

260/860M Introduction to Human Development (3)
A study of the psychological foundations of human development, including biological, cognitive, and social aspects.

340/840M Current Issues in Psychological Development (3)
An in-depth examination of current issues in psychological development, with a focus on research and theory.

421/821M Speech for the Deaf I (2)
Prospective teachers of the hearing impaired are introduced to the fundamentals of speech for the hearing impaired child, the process of speech and language development, and the speech and language needs of children with speech and profound hearing losses. To investigate the growth of speech and language in the Deaf child, the course emphasizes observation of and participation in Deaf communication environments.

422/822M Teaching of Speech to the Deaf II (2)
A study of the implementation of diagnostic speech procedures used with hearing-impaired children, the development of speech unit plans, the writing of individual speech prescriptions, and the application of diagnostic speech procedures to the teaching of speech to hearing-impaired children.

423/833M Language and Auditory-Verbal Training of Hearing Impaired Children (3)
An investigation of the nature and structure of language, the various methods of the development of language in normally hearing children. The effects of hearing loss on language development, language development in the hearing impaired child. This course is designed for students preparing to be teachers of the hearing impaired.

451/851M Basic Clinical Practicum in Speech Pathology and Audiology (1-3)
Summer practicum opportunities for those who wish to work with clients in nonclinical settings. Prereq: Consent of instructor.

460/860M Introduction to Mental Retardation (3)
An introduction to the field of mental retardation, with a focus on understanding the causes and implications of mental retardation.

464/864M Retarded Program! (3)
The philosophy and methodology of teaching mentally retarded children, including the development of teaching materials and techniques.

466/866M Retarded Training of the Mentally Retarded (3)
An in-depth study of the educational procedures designed for the teaching of mentally retarded children, with an emphasis on the psychological, social, and educational aspects of the field.

470/870M Vocational Training (3)
A study of the vocational training of the Deaf, including the development of employment opportunities and the integration of Deaf individuals into the workforce.

481/881M Classroom Techniques for Behavior Control (3)
A study of the techniques and methods employed in the classroom to control and manage behavior.

485/885M Prac. in Teaching Emotionally Disturbed (3)
A practicum in teaching emotionally disturbed (E.D.) children, with an emphasis on the psychological and social aspects of the field.

490V Special Projects (1-3)
A series of intensive courses designed to provide hands-on experience in the teaching of Deaf and hard-of-hearing children, with a focus on practical applications.
discovers that a handicapped child is going to be or has been placed in their class. Because of the nature of the class, it will not be restricted to regular educators. People concerned with the total development of the child should enroll in the course to be of value, Prereq: FED 801V or permission of instructor.

864V Interdisciplinary Approaches to Developmental Disabilities (3) This is an introductory course covering different disciplines and principles as viewed by different disciplines at the university's rehabilitation institute. The different disciplines will come in and present an overview of their role in working with the developmentally handicapped child. Prereq: FED 801V.

874V Research Projects (3) Individual or group study and analysis of specific problems.

812V Reading Diagnosis and Remediation for the Elementary Teacher (3) This course is designed for in-service teachers who are interested in diagnostic and remedial techniques appropriate for the elementary reader. Diagnostic instruments will be analyzed, constructed, and administered during the course. Remedial techniques for disabled readers will be examined. Prereq: One reading course and Graduate standing.

875V Diagnostic and Remedial Instruction in Reading (3) A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remedial treatment of reading disabilities. (F.S.Su) Prereq: SpEd 911 or 912.

814V Measurement and Evaluation of Reading (3) An advanced student seminar in reading for students who have had at least one semester of reading training in the use of proper remedial reading procedures. Students will provide them with practical training in the use of appropriate remedial reading procedures under the guidance of a reading specialist. (F.S.Su) Prereq: Permission of instructor.

815V Clinical Practice in Reading (3) A laboratory-oriented seminar for advanced students in reading which will provide them with practical training in the use of proper remedial reading procedures under the guidance of a reading specialist. (F.S.Su) Prereq: Permission of instructor.

834V Pediatric Audiology (3) The course is designed for graduate majors in speech pathology and audiology and for students in education for the deaf. The purpose of the course is to introduce the student to concepts important to the understanding of the development of human hearing in children and adults. The course will include basic terminology, techniques for testing and assessment of children categorized as neonates, infants, and toddlers, and methodologies. Disorders of hearing commonly found in children will be stressed. Remedial procedures and approaches for hearing disabilities will be developed. Prereq: Hearing (4) for grad or postgrad.

875M Hearing Disorders (3) This course will focus on the problems caused by disease process.

836V Theoretical Approaches to Teaching The Developmentally Disabled Child (3) This is an advanced methods course for students majoring in Special Education. It will be offered in the fall to graduate students in the following areas: retardation, speech disorders, learning disabilities, and visually impaired. It will be offered in the fall of the student's first year for early childhood education for the handicapped. (F.S.Su) Prereq: SpEd 801V and SpEd 8001.

876V Community Services for the Handicapped (3) An introduction to community and regional agencies providing services to the handicapped. Program goals, objectives, activities, manpower needs, and criteria for the involvement of public agencies, private agencies, and students will be presented. Prereq: Permission of instructor.

857V Seminar in Speech Pathology (3) Student selects and investigates three different areas of clinical interest. Prereq: Skinnerian behaviorist principles. It includes a survey of current literature and emphasis on practical applications. (Su) Prereq: SpEd 850M.

825V Current topics in Speech Pathology (3) Course provides an opportunity for graduate students and public school speech clinicians. This course is designed to expose students to the problems of communication: (1) the challenges of parents and teachers of a child with a cleft palate is confronted. Developing comprehensive, creative, and practical procedures and methods will be the primary aim of the course. (S) Prereq: Permission of instructor.

835V Alaryngeal Speech Rehabilitation (2) Provides an overview of the rehabilitation of the individual without a functional larynx; social, emotional, and medical considerations as well as clinical procedures for esophageal, pharyngeal, and prosthetic voice rehabilitation in the use; and professionals dealing with families of the handicapped. (F.S,Su) Prereq: Permission of instructor. Speech Pathology/Clinical Educator Graduate Program.

8721 Basic Practicums in Special Education (3) This course provides practical field experiences in general or special education with emphasis on problem areas. The course is open to students in all areas of special education. Assignments will be made according to the interest of the student. Prereq: Permission of instructor. Master's degree and acceptance in the ed sp program.

8723 Basic Observation and Supervision in Special Education (3) or 5) Classroom experiences with exceptional children in special education and for those who have had other professional experiences. Students will participate in observation, participation teaching, teaching, and collaboration with other teachers. (F.S.Su) Prereq: Permission of instructor.

8731 Advanced Practicums in Special Education (3) A second semester of participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the interest of the student. (F.S.Su) Prereq: Permission of instructor.

873V Advanced Observation and Supervision in Special Education (3) A second semester of classroom experience with exceptional children, and for those who have had other professional experiences. Students will participate in observation, participation teaching,
SPED 896. (F,S) Prereq: SPED 895 and SPED (3) Theoretical and limited practical knowledge of students who have successfully completed student teaching will be eligible to enter medical school. The purpose of this course is to provide the opportunity to design and implement methods and materials for teaching reading in each of the content subjects at the junior and senior high levels.

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

919 Seminar in Research in Reading (3) A course for graduate and post-graduate students relating to in-depth studies of significant, recent research in reading with appropriate application for instructional procedures which may be undertaken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent), FED 801 (or equivalent), and permission.

919 Topical Seminar in Reading (3) Participation is limited to individuals who have completed the Master's Degree in Education and have completed at least nine semester hours in reading, and who are professional workers in the field of reading education. The major intent of the course will be that of orienting and appraising students of the latest techniques and curriculum changes in reading. Specifics will be determined when the course is offered. The general topic selected will be announced each time the course is offered. The course may be repeated each time a different topic is covered, up to a maximum total of six credit hours. Prereq: Master's Degree in Education and have completed at least nine semester graduate hours in Reading.
Faculty and Administration
LEA KALLSTROM Ph.D., University of Nebraska-Lincoln, 1973; Associate Professor
BILL KALTSTADT Ph.D., University of Georgia, 1969; Associate Professor
JOHN K. KARLFOO Mathematics and Computer Science Ph.D., State University of New York at Buffalo, 1975; Associate Professor
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ERNST J. KEMNITZ JR. Chemistry Ph.D., University of Nebraska-Lincoln, 1971; Assistant Professor
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KENT KRIAN (GF) Political Science Ph.D., University of Chicago, 1970; Professor
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HELEN J. HOWELL Elementary and Elementary Education Ed.D., University of Colorado-Boulder, 1969; Professor
CHARLES O. INGHAM Biology Ph.D., University of Utah, 1960; Associate Professor
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KENNETH BERRY .................. Psychology
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HUGH P. COWIN ................... Chairperson

Sharon Crum .................................. Acting Program Coordinator
College of Home Economics

Harold Davis .......................... Chairperson
College of Engineering and Technology

J. Brad Chapman ................. Chairperson
Managemen, & Org. Behavior and Ethics
College of Business Administration

Hugh P. Cowin .......................... Chairperson

SHEILA CRUM ...................... Acting Program Coordinator
College of Home Economics

Robert L. Ackerman ................ Chairperson
Elementary and Early Childhood Education

David M. Ambrose .................. Chairperson
Marketing

Charles Hein .......................... Associate Chairperson

Frank S. Forbes ..................... Chairperson
Law and Society

Margaret Grossman ............... Chairperson
Graduate Studies and Research

Thomas Goutier ................. Chairperson, International Studies & Programs

Donald R. Hinkala ............... Chairperson
Biology

Robert J. Ellingson .............. Chairperson

Robert E. Berrier .......... Chairperson

Robert L. Ackerman .............. Chairperson

Robert J. Ellingson .............. Chairperson

Charles Hein .......................... Chairperson

Frank S. Forbes ..................... Chairperson

Margaret Grossman ............... Chairperson

Donald R. Hinkala ............... Chairperson

Biology

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