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THE GRADUATE CATALOG

ACADEMIC CALENDAR

First Semester 1977-78

July 15
Last day for submitting credentials for admission to Graduate Studies for First Semester 1977-78.

Orientation

July 16-Sept. 7
Last day for submitting credentials for admission to an undergraduate college for the First Semester 1977-78.

Aug. 1
Beginning of academic year.

Aug. 1-26
Registration (Field House)

Aug. 27-Sept. 2
First semester begins at 0700 both day and evening classes.

Sept. 2
Change of class schedules.

Sept. 3
Last day up to 1600 for change of class schedules. Adding a class to a schedule, changing a class from "audited" to a grade enrollment, or changing a CR/NC class registration to a grade registration.

Sept. 5
Labor Day, University closed.

Oct. 1
Last day for filing applications for degrees to be conferred in December.

Oct. 21
Mid-term (6th week) report from faculty of grades under C for all undergraduates.

Nov. 1
Last day a class may be dropped in order to receive a "W". Last day a class may be changed to "audited" or changed from a grade registration to CR/NC.

Nov. 20
Thanksgiving Vacation, no classes.

Nov. 27-28
Holiday, University closed.

Dec. 15
Status report for all prospective graduating students due in Registrar's Office by 1200.

Dec. 16-22
Last day for submitting credentials for admission to Graduate Studies for Second Semester 1977-78.

Last day of classes.

Dec. 22
Finals.

Dec. 23-31
Commencement.

Christmas Holiday, University closed.

Dec. 28
Grades due in Registrar's Office at 1200.

Dec. 26-Jan. 14
Special course offerings.

Inter-session

Second Semester 1977-78

Jan. 2
Holiday, University closed.

Jan. 3
Last day for submitting credentials for admission in undergraduate college for the Second Semester 1977-78.

Jan. 4
Orientation

Jan. 11-13
Registration (Field House).

Jan. 16
Second Semester begins at 0700 both day and evening classes.

Jan. 16-20
Change of class schedules.

Jan. 20
Last day up to 1600 for change of class schedules. Adding a class to a schedule, changing a class from "audited" to a grade enrollment, or changing a CR/NC class registration to a grade registration.

Feb. 10
Mid-term fifth week report of grades under C for all undergraduates.

Feb. 10-16
Last day for filing applications for degrees to be conferred in May.

Spring vacation begins at 1200.

Feb. 17
Holiday, University closed.

Feb. 18
Classes resume at 0700.

Feb. 26-28
Semester begins.

March 1
Graduate Studies for the Evening Semester Session 1977-78.

March 16
Honors Day.

March 17-18
Status report for all prospective graduating students due in Registrar's Office at 1200.

March 21
Last day of classes.

March 25-27
Finals.

March 28
Commencement.

April 4
Last day for filing credentials for admission to Graduate Studies for the First Summer Session 1977-78.

April 17
Grades due in Registrar's Office by 1200.

April 29
Memorial Day, University closed.
DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

<table>
<thead>
<tr>
<th>DEPARTMENT OR AREA</th>
<th>Minor of Only</th>
<th>Master of Arts</th>
<th>Master of Science</th>
<th>Other</th>
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<td>Art</td>
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<td>Urban Studies</td>
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*Ph.D. in the specialties of industrial psychology and developmental psychology offered in conjunction with the Psychology Department. U.N.L. Ph.D. in the specialty of experimental/child psychology is offered in conjunction with the Educational Psychology and
GRADUATE STUDIES AT UNO

The first Master's degrees were awarded in 1919 by a special vote of the Board of Trustees of the "old" University of Omaha. In 1932, after the University became the Municipal University of Omaha, a Graduate Committee was organized to supervise graduate education. In 1942, the Graduate Committee was replaced by the Committee on Graduate Studies. The degree Master of Science in Education was approved in 1948. In 1954, the Committee on Graduate Studies became the Graduate Council and the Chairman became the Director of the Graduate Division. In 1960, the Board of Regents authorized a year of graduate study in education beyond the Master's degree. The Master of Business Administration was authorized in 1965 and the Master of Public Administration was authorized in 1970.

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1966. In October, 1966, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College; but in 1973, The Graduate College of the University of Nebraska was established with a University-wide graduate faculty.

Graduate studies provide the opportunity for advanced education of a 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 Social Work, and Specialist in Education.
2. To earn graduate credit for the issuance or renewal of certificates for teachers, administrators, and educational psychologists.
3. To provide for scholarly and professional advancement.

To enable the student to attain these objectives, Graduate Studies at UNO provide graduate courses, workshops, institutes, seminars, research and special problems courses, and the supervision of thesis and 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 University of Nebraska at Omaha is fully accredited by the North Central Association of Colleges and Secondary Schools, and the National Council for Accreditation of Teacher Education. It has programs approved by the American Chemical Society, The Council on Social Work Education, and the International Reading Association. It is a member of the National Commission on Accrediting (not an accrediting agency), the American Association of Colleges for Teacher Education, the Association of Urban Universities, the Association of American Colleges, the National University Extension Association, the American Association of University Women, the Council of Graduate Schools in the Midwest, the Midwest Conference on Graduate Study and Research, the Association of University Extension Colleges, the Adult Education Association of the United States, Association of Governing Boards, and the American Council on Education. Its courses are accepted, for purposes of teacher certification, by the Nebraska State Department of Public Instruction.

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

DEGREE PROGRAMS

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

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

Master of Arts or Master of Science Degree

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

Option 1.
A 30 semester-hour program (maximum of 6-hour thesis credit included) as determined by the cognizant Graduate Program Committee.

Option 2.
A 36 semester-hour non-thesis program as determined by the cognizant Graduate Program Committee.
Master of Arts for Teachers of Mathematics
This is a specialized graduate degree designed to provide secondary school mathematics teachers with more depth in mathematics combined with a core of relevant professional courses in education.

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

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

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

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

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

At the graduate level, requirements may be made retroactive only for those students who do not maintain a continuity of enrollment. "Continuity" means that the student is enrolled in both semesters of every academic year or in at least one session every summer until all requirements for the degree have been satisfied.

PROCEDURES AND REGULATIONS
Admission and Transcripts
The student is advised to be familiar with the academic regulations of the university and Graduate Studies and to have the student is expected to assume full responsibility for knowing the general academic requirements. The student is responsible for complying with all regulations of the University, Graduate Studies, and the departments of instruction, and for meeting all degree requirements. The advisor should be consulted whenever there is a question concerning degree requirements.

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

Foreign students must provide letters of recommendation, statements of financial independence, and evidence of ability to speak and write the English language. The baccalaureate degree must have been received from an institution accredited by the proper accrediting agencies.

New students should correspond with, or go directly to, the Director of Admissions in order to apply for admission. Each new student will be required to file with the Director of Admissions:
1. An application for graduate study at the University of Nebraska at Omaha.
2. One (1) official transcript of all undergraduate and graduate, if any college work previously taken. Transcripts and other materials submitted in support of an application, and the permanent property of the University and will not be returned. (Graduates of the University of Nebraska at Omaha need not submit transcripts.)
3. Scores on the GMAT which should accompany the application for admission to the Master of Business Administration program.

NOTE: For consideration for the Fall, Spring, Evening Summer, First Summer or Second Summer term, above credentials must be on file by July 15, December 15, April 15, May 15 or June 15 respectively. Those wishing to be considered for admission to the program in counseling and guidance should see page 30 for separate deadlines.

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

The test(s) required 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 charge the regulations included in this Catalog with respect to admission to Graduate Study, the continuance of graduate study, and the granting of a degree.

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

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

All testing at UNO in the three categories below is under the supervision of the Director, Counseling and Testing Center. Registration deadlines and testing dates are available from the Counseling and Testing Center, Eppler Building, or the Graduate Office, Adm. 250.

Graduate Record Examination
Graduate students are required to take the general aptitude test of the Graduate Record Examination (GRE) during their first semester of enrollment in Graduate Studies, unless they have taken 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 his 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 holding a Master's degree in the field in which he desires to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination.

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

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 30).

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

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

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

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

Unconditional admission to graduate study may be granted to a student who has a Bachelor's degree from a regionally accredited institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least 15 semester hours of undergraduate work that meet specific requirements of the departments in his graduate major and minor. A moral character examination (statement which is not regionally accredited will be considered) will be made, in addition to the evaluation of the student's academic record by the dean as he would be admitted by the state university or reporting institution in that state. In such cases, further work may be required, or suitable examinations, or in some cases the student may be admitted to a Bachelor’s degree in an accredited institution. In addition to the specified transcript record, appropriate transcript records are taken into account.

The University of Nebraska at Omaha

The Graduate Catalog

10
Policy for Admission to Graduate Study

The Graduate School of the University of Nebraska at Omaha reserves the right to accept graduate students for study and to determine the qualifications of such students. Graduates of accredited institutions who wish to pursue graduate study must meet the requirements of the Graduate School and the departments or divisions of the University. Applicants for graduate study must submit evidence of satisfactory academic performance and a statement of purpose. The Graduate School may require additional materials or testing. Admission is based on academic qualifications and potential for graduate study. Applicants are encouraged to consult with the appropriate department or division before submitting an application. Admission decisions are made on a case-by-case basis.

Provisional Admission

Provisional admission may be granted to students who have been accepted provisionally by the Dean of Graduate Studies and Research. Provisional admission is granted to students who have not completed all of the requirements for regular admission to graduate study. Provisional admission is typically granted for specific courses, and students must meet all requirements for regular admission within the specified time period.

Conditional Admission

Conditional admission may be granted to students who have been accepted provisionally by the Dean of Graduate Studies and Research. Conditional admission is granted to students who have not completed all of the requirements for regular admission to graduate study. Conditional admission is typically granted for specific courses, and students must meet all requirements for regular admission within the specified time period.

Graduate Degree Program Form

All graduate students must complete the Graduate Degree Program Form before beginning graduate study. This form is available from the Graduate Office and must be submitted to the Dean of Graduate Studies and Research. The form must include a statement of purpose, a plan of study, and a list of courses to be taken. The form must be approved by the appropriate department or division.

Registration Procedure

The student must 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 his major adviser and submit it to the Dean of Graduate Studies and Research (if he is registering for more than twelve hours). Students must be formally admitted to graduate study prior to their first registration.

Certification or Professional Growth

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

Admission to Candidacy for Graduate Degree

Admission to graduate study does not admit the student to candidacy for any degree. A student may not apply for admission to candidacy for any degree until he has met the requirements of unconditional admission.

Non-Degree

Some students who do not anticipate pursuing a degree program may be admitted to graduate study as non-degree students. This classification is appropriate for the following groups:

1. Students taking courses for teacher certification
2. Students taking courses for professional growth
3. Students taking courses for cultural advancement
4. Students taking courses for transfer to another institution.

Applicants in the non-degree category must meet all requirements for admission to graduate study. Each department may also establish additional requirements for admission.

Credit Hours

Credit hours must be counted toward a degree only if (a) the student has received an unconditional status, (b) the degree program requires a minimum of twelve credit hours, and (c) the student has completed all of the requirements for regular admission to graduate study. Credit hours earned in other institutions will not be counted toward a degree.

Certification of Completion

When a student has completed all of the requirements for a degree, he may be granted a certification of completion. The certification must be signed by the Dean of Graduate Studies and Research and the appropriate department or division.

Application for Degree

The student must file an application for degree with the Registrar's Office at least thirty days prior to the date of graduation. The application must include a statement of purpose and a plan of study. The application must be approved by the appropriate department or division.

Graduate Catalog

The Graduate Catalog contains information about the graduate programs, policies, and requirements. It is available from the Graduate Office and from the Registrar's Office.

FINA1 COMPREHENSIVE EXAMINATION

The final comprehensive examination is the culmination of a student's graduate study. It is designed to assess the student's mastery of the subject matter and to ensure that the student has achieved the learning outcomes of the graduate program. The examination is administered by the appropriate department or division.

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

APPLY FOR THE DEGREE

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

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

APPLY FOR THE DEGREE

The candidate for the degree must file an application for degree in the Registrar's Office in the semester or session in which the degree is to be granted (See Calendar for date.)
examination. (Note: In most departments, students who plan degree program completion in August should register for the comprehensive examination in the preceding June.) Results of comprehensive examinations must be submitted to the Graduate Office by the departmental chairperson no later than twelve working days after completion 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 obtain firsthand experience in research methods under competent direction. Up to two of the credits is allowed if the thesis and the candidate must include the thesis as a course in his schedule during at least one semester. The thesis should be submitted at least eight months before the commencement in which the student plans to receive his degree. Three typewritten copies of the thesis (two copies for the University Library and the student's personal copy, plus an additional copy if requested by the department, are required), any other comparable process, providing the thesis produces permanent copy and is approved by the chairperson of the thesis committee. Either micro or Elite product produced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairperson of the thesis committee. Either micro or Elite product produced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairperson of the thesis committee. Either micro or Elite product produced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairperson of the thesis committee.

The composition of a committee to approve the thesis proposal and to conduct the oral examination and the thesis field is recommended by the department and submitted to the Dean for Graduate Studies and Research for his approval. 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 held in the student's major department, a second committee member must be used. The student's major adviser is the chairperson if the committee for the thesis is an assistant professor or above in the graduate faculty. The scheduling of oral examinations will be contingent upon the availability of appropriate members of the Graduate Faculty.

ORAL EXAMINATION ON THESIS

The examination on thesis is final in form rests with the student and his major adviser. All theses must be written in accordance with a standard thesis manual. The Graduate Faculty has approved an official manual for each department and the student will be advised by his major adviser of the standard form to be used. The cost of binding three copies (see Fees) must be paid by the candidate at the time the thesis is submitted in final form to the Graduate Office. If the department conducting the thesis requires an additional copy, it is to be bound at the student's expense. The fees are payable in the Cashier's Office.

SUMMARY OF PROCEDURE FOR GRADUATE STUDENTS

1. File an official transcript of undergraduate credits (and graduate, if any), an application for admission form with the Director of Admissions. You will be notified by mail of your admission to graduate study.

2. Arrange to take the entrance examination (GRE, GMAT or MAT) in the Eppley Building. If you have previously taken the examination, the scores sent to the Graduate Office.

3. Arrange your class schedule with your adviser and have him sign your registration form.

4. Pay a $10 matriculation fee at the time of your initial enrollment into graduate study.

5. Apply for admission to candidacy for the degree in accordance with the procedure described above.

6. Apply for the degree in the Office of the Registrar during the semester or session in which the degree is to be conferred. (See Calendar for exact date.) NOTE: If you are unable to complete the degree requirements during the semester in which the degree is to be conferred, you must register for the degree and you may be required to register for the degree the following semester in which you are unable to complete the degree.

7. Inform your adviser or department chairperson at the time of your final enrollment that you wish to sit for the comprehensive examination (provided your department is not one of those who administer the comprehensive examination earlier in the program).

8. Notify the Graduate Office at the time of your final enrollment of your intention to graduate at the end of the semester so that your graduate record may be compiled.

9. Remove incoherences with grades, pay all fees and fines (traffic, library, etc.) and satisfy any other obligations you may have before you are admitted to University at least twelve working days prior to conferral of the degree.

10. If you are writing a thesis, make arrangements with your department for the oral examination to be given by ample time to have the corrected and approved thesis deposited in the Graduate Office at least twelve working days prior to conferral of the degree. The scheduling of oral examination will be contingent upon the availability of appropriate members of the Graduate Faculty.

11. Order the cap and gown from the Bookstore.

QUALITY OF WORK

A "B" average must be maintained in all work taken as part of the requirements for the degree. A final grade of less than "C" may result in suspension or graduation. Failure in any course will be recorded on the permanent record of the student. The student is responsible for maintaining his grade point average at or above "C" or "B" level. The grading system uses the following terms: A, B, C, D, F. A grade of "C" or "B" or below in either the major or minor area is considered a failing grade and the student will be required to complete the course work for the degree.

The above quality of work standards also apply to non-degree students. A grade of "C" or "B" or below in either the major or minor area is considered a failing grade and the student is required to complete the course work for the degree.

Seven letter grades are assigned to each student's grades may result in restrictions on enrollments for additional courses: "excessive" will be defined by the Dean for Graduate Studies and Research on an individual basis. All grades of "I" on courses which are part of the degree requirements must be removed at least twelve working days before conferral of the degree.

NOTE: The policy for Incomplete is presently under review and is subject to change without published notice.

POLICY ON CLASS ATTENDANCE

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

If a student is absent or anticipates an absence, the student's primary responsibility is directly to the instructor. In the event the student should consult with him accordingly. A student who is absent from class, or in whom it is suspected that he is not to be absent for an extended period, the student should promptly notify the instructor and be prepared to document the reason for extended absence.

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I

sons for absence conveyed to other instructors. The initial appeals procedure is the same as that provided by the academic deans. The next step in the appeals process rests with the respective academic dean and the Provost and Vice Chancellor for Academic Affairs. The routing of appeals shall be in the department and colloquial 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, 1973. It applies to academic matters, other than those associated with class attendance.

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

1. Initially, the appeal should be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the Department or Interdepartmental Area Graduate Committee administratively responsible for the student's graduate program.
3. If denied, an appeal may be made to the graduate council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see paragraph E).

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

1. Initially, the appeal should be submitted to the student's supervisory committee.
2. If denied, the appeal may be submitted to the student's supervisory committee.
3. If denied, the appeal may be submitted to the Department or Interdepartmental Area 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 negotiations or more than one campus, the Graduate Council of the campus administratively responsible for the program, in this case, the augmented council will constitute the appeal board. The decision concerning the negotiation of a campus Graduate Council for a specific appeal involving registrations on a campus other than the one administratively responsible for the student's program will be made by the Dean for Graduate Studies on the campuses involved.

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

E. Only under special circumstances will Committee III of the Executive Graduate Council have an appeal from its decision carried further that the Graduate Council believes that...

a. The campus graduate council has violated some element of due process or fair procedure (example: has failed to allow the parties concerned to present their cases fully to the council; has failed to listen to the pertinent facts or evidence or has failed to consider some pertinent evidence).

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 an appeal may be made within 20 working days of the day the decision of the campus council is requested. This appeal must be submitted to the University Council during the semester the University is in session.

3. Committee III of the Executive Graduate Council must make a decision to hear the appeal or not 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 transmitted to the concerned parties within 40 working days after the decision to hear the appeal. Such notification will be made in writing.

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 which you feel may have the expertise you need, and actions on your behalf by the Ombudsman are just some of the duties of the office. The office is confidential and free. If you have questions about University procedures, or don't know where to turn when you are confronted with unusual problems, try the Ombudsman, Administration 213. A more detailed description of the Ombudsman is in the Undergraduate Catalog.

STUDY LOAD

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

Students carrying less than twelve hours of credit may enroll in the full-time graduate student activities card by paying the full-time fee of $36.00.

NOTE: Students enrolling for more than twelve hours must have the approval of the Dean for Graduate Studies and Research.

AUDIT

A student wishing to audit a course must secure the permission of his adviser, must register for the course to audit, and must secure the approval of the instructor of the course whose permission must be secured prior to registration. Students carrying less than twelve hours may not be auditors during a five-week summer session.

Students carrying less than twelve hours may apply for the full-time student activities card by paying the full-time fee of $36.00.

NOTE: Students enrolling for more than twelve hours must have the approval of the Dean for Graduate Studies and Research.

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 and 900 are open to graduate students only. Some courses numbered 800-899 are open to both seniors and graduates. The same is true of a selected few 800 numbered courses. It is expected that these courses are to graduate students only. Courses numbered 900-999 will be open to graduate students only. Typically, such differentiation might include depth studies, field studies, and special interest projects.
RESIDENCE REQUIREMENTS
A minimum of 30 semester credit hours in residence (6 in case of the Master of Science, Master of Public Administration, Master of Social Work and the Master of Business Administration degree) 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.

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

Courses for which transfer is requested must not have been used to satisfy the requirements for any previously awarded degree. Grades in courses for transfer of credit must be equivalent to "B" or higher. A written request for transfer of credit must be submitted to the student's major adviser who forwards the petition with his recommendation to the Dean for Graduate Studies and Research for his approval.

The student must have the former credit admitted to candidacy for the degree. All work accepted for transfer of credit must have been taken within the three-year period allowed for the Master's degree.

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

Students who wish to take graduate courses at the University of Nebraska at Lincoln or at the Medical Center for transfer to a graduate school should secure the Intercampus Graduate Student Exchange Form from the Graduate Office. Transfer of graduate credit from all schools in the University system will be accepted only with the consent of the student's committee with at least one-third of the minimum degree requirements to be taken at the UNL or UNO campus, whichever is greater than the degree. Only grades of "C" or better may be transferred from other institutions 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 advisor and the Dean for Graduate Studies and Research of his designee prior to submitting the withdrawal form to the Registrar's Office. Any refund of fees will be based on the University's refund schedule. Special Enrollment Fee, inclusive of tuition,matriculation fee, Orientation Fee, and all other required fees are non-refundable and will not be prorated.

REGISTRATION CHARGES

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

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves of the delayed billing option must familiarize themselves with the due dates, as published. Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalty. Students in need of financial aid must consult the Student Financial Aid Office in the Eppley Building. Applications for financial aid should be made at the earliest possible time.

Tuition, fees, deposits and refunds

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.

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

Resident of Nebraska: $10.00
Non-Resident: $30.00

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

Resident of Nebraska: $25.00
Non-Resident: $100.00

Tuition:
Per Semester Credit Hour. Undergraduate or Graduate Resident of Nebraska (see residency status): $180.00
Non-Resident: $480.00

Audits (not for credit fee) is set at one-half of the Resident tuition rate. Registration for audit requires special permission and is subject to approval. Audit fees are not refundable and do not apply toward the audit registration. Students who register for a course for audit and who later change to audit registration will be required to pay the full resident or non-resident tuition rate.

Orientation Fee (Undergraduate): Payable upon enrollment of all new undergraduate students $3.00

Special Instructional Fees:
Applied Music: Voice and all instruments except percussion and harp. Fee may be paid by the Director of the Music Department for any full-time student who is male or female. One semester credit hour: $95.00
Two semester credit hours: $175.00
Three semester credit hours: $230.00
Four semester credit hours: $450.00
Conference, non-credit, off-campus contract course fees are determined for each offering based upon the costs factors and peculiar circumstances involved.

University Program and Facilities Fee (UPFF):
The University Program and Facilities Fee (UPFF) of $36.00 also entitles the student to a regular student activity card covering athletics, publications and general student activities. Part-time students may obtain a reduced student activity card by paying the full-time fee of $30.00.

Special Service Fees:
Continuing Engineering Studies - Professional Studies - Development Degree Program
Initial application: $25.00

Additional Articulation Fee
Graduation Fee $30.00

Degree in Absence (payable in addition to graduation fee) $30.00
Bad Check Fee $30.00
Dishonored checks given in payment for tuition and fees must be redeemed in cash prior to reissuance of registration, otherwise the late registration fee will be assessed in addition to the bad check fee.

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Teacher Placement Fees:
Registration Fee: $10.00

This fee is required before any further service is given. This fee prepares the placement file for the new registrant and updates the file for re-registrants making the file readily available for office use or mailing to prospective employers. The registration fee is required of all graduates preparing for teacher certification.

Vacancy Bulletin Fee & Postage Cost: $10.00
3rd class mailing: $1.00
1st class mailing: $1.70

The vacancy bulletin will not be mailed unless the registration fee is paid.

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

Late Fees and Penalties:
Late Registration (during evening classes): $5.00
Late Examination (each course): $5.00
Late Payment of Tuition Billing: $35.00
Remittance of Cancelled Registration: $100.00
Replacement of ID Activity Card: $1.00

Deposit:
Key (per key with authorization) refundable: $1.00
Locker and Travel Deposit-Refundable: $5.00
Required for students entering HPER service courses.
Also required of Faculty, Staff and students using Field House Facilities. Chemistry, Laboratory Deposits-Refundable: $10.00

Testing Fees:
Credit by Examination — per course (Departmental): $25.00
American College Testing (ACT), National: $7.50
American College Testing (ACT), Residual: $11.50
College Level Examination Program (CLEP): 20.00 *

*See Test Registration Form for Other Rates

Graduate Management Admission (GMAT): 12.50
Graduate Record Exam (GRE): 10.50
Law School Admissions Test (LSAT): 15.00
General Educational Development (GED): 10.00
Miller Analogies Test (MAT): 10.00

Co-requisites as a Foreign Language (TOEFL): 17.00

Refund Schedule:
Refunds are computed from the date application is received by the Registrar, NOT from date of withdrawal from classes. Refund stipends issued by the Registrar and given to students are void and not redeemable, unless presented to the Cashier (Epbley Buildings) within 30 days after date of course withdrawal from Classes.

Students paying tuition and fees on a deferred payment basis or under any other loan granted by the University, who withdraw before the account is paid in full are not relieved from payment of the balance due. Refunds will be first applied to unpaid balances, and any remaining balance must be paid.

Refunds for withdrawals are figured from the official beginning of the semester as stated in the University’s academic calendar, not from the beginning of students’ individual class schedules.

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<tr>
<th>Period of Drop/Withdrawal</th>
<th>Regular Semester</th>
<th>Refunded</th>
<th>Charged</th>
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</thead>
<tbody>
<tr>
<td>Before first official day of semester</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>First week of classes</td>
<td>75%</td>
<td>25%</td>
<td>0%</td>
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<tr>
<td>Second week of classes</td>
<td>50%</td>
<td>50%</td>
<td>0%</td>
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<tr>
<td>Third week of classes</td>
<td>25%</td>
<td>75%</td>
<td>0%</td>
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<tr>
<td>Fourth week of classes</td>
<td>0%</td>
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<tr>
<td>Fifth week of classes</td>
<td>0%</td>
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<td>0%</td>
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<tr>
<th>Summer Sessions (5 and 6 Weeks)</th>
<th>Regular Semester</th>
<th>Refunded</th>
<th>Charged</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before first official day of semester</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>First three days of classes</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Remainder of first week</td>
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<tr>
<td>Second week of classes</td>
<td>25%</td>
<td>75%</td>
<td>0%</td>
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excellent record: The Mary-Ellen Patterson-Phi Delta Gamma Scholarship and the Nelle Buyer-Phi Delta Gamma Scholarship.

Applications and details concerning these scholarships may be obtained from the Dean for Graduate Studies and Research Room 250, Administration Building. Applications should be in the Graduate Office by March 1 of each year.

LOANS
Qualified women graduate students are eligible for a Phi Delta Gamma loan on a limited basis. To apply for loans from other sources as well, contact the Director of Financial Aid, Room 169, Administration Building.

ORGANIZATIONS
Phi Delta Gamma is a national sorority for graduate women in all fields. Membership is by invitation.
Phi 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 Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.
Omron Delta Epsilon is a national honorary association for graduate students in Economics. Membership is by invitation.

ADMINISTRATION FOR GRADUATE STUDIES

GRADUATE FACULTY
The Graduate Faculty comprises 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 teach graduate courses, supervise students enrolled in subdoctoral graduate programs, serve on the final examining committees for these students and vote on any matters presented to the graduate faculty including the election of the Executive Graduate Council and the Graduate Council for UNO.

Requirements for the nomination of Graduate Faculty Members include:
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 clear equivalent as determined by the Graduate Committee of the nominee's department or interdepartmental area.
3. The nominee must have completed at least one year of service at the college or university level subsequent to the receipt of the terminal degree or its equivalent.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching.

NOTE: These criteria are under review and changes may occur at any time.

GRADUATE FACULTY FELLOWS
Graduate Faculty Fellows supervise the scholarly work and research of doctoral students through service on Supervisory Committees. The qualifications of Graduate Faculty Fellows have a direct bearing on the quality of doctoral education at the University of Nebraska.

Requirements for the nomination of Graduate Faculty Fellows include:
1. The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
2. The nominee must have published research and scholarly work of quality, or have demonstrated comparable creative achievement.
3. The nominee must be currently involved in research and/or creative work.

4. The nominee's other pertinent qualifications including funded research and development projects and/or teaching effectiveness in working with graduate students may be provided.

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

FACULTY SENATE RESEARCH COMMITTEE
This is an advisory committee to the Dean for Graduate Studies and Research.

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

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

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

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

Each new graduate student, in conference with the chairperson of the Graduate Program Committee of the student's department, shall select his major advisor. 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 Graduate Program Committee after consultation with the student and his major advisor. At the master's level, committees of three members are usually sufficient. The chairpersons should be a member of the Graduate Faculty and when ever feasible, the student's advisor and thesis director. The representative from a department other than the major must be a member of the Graduate Faculty. In addition to at least three voting members, faculty members in the university system may be appointed to serve ex officio (without vote) as consultants (or to gain experiences as special representatives of the Dean for Graduate Studies and Research). The Graduate Program Committees at UNO represent both the Graduate Faculty and the student's field of study. The word program denotes all kinds of academic requirements which must be satisfied by the graduate student in order to qualify for a particular degree (for in the case of the 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 are given together with quality-of-work standards, are included under programs; also included are transfer credits and those electives which are major or minor courses.

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

CENTER FOR URBAN EDUCATION
The Center for Urban Education is a practical, problem-oriented off-campus laboratory which is not housed in any of the individual departments or colleges but reports to the Vice-Chancellor for Academic Affairs. The Center has an advisory council consisting of several deans and public officials.

The Center focuses upon problems of low-income areas (both urban and rural) but does not offer sep-
arate 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 out-reach 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 appeals therefrom, at any major administrative unit shall be carried out under the appropriate faculty-student appeals committee at that campus.
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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, and mathematics. Students with inadequate backgrounds may be admitted provisionally. GRE (advanced and aptitude) is required.

Master of Arts

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

To complete the Master of Arts degree with a major in biology the candidate must present 30 hours of graduate work in biology to include credit in general botany, general zoology, and genetics. Please note that the student and his faculty committee shall determine the content of the course work in the supporting sciences of inorganic and organic chemistry, general physics, and mathematics. Students with inadequate backgrounds may be admitted provisionally.

Master of Science

A student may become a candidate for this degree only upon the recommendation of his faculty committee.

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

The candidate must pass a final written comprehensive examination.

BUSINESS ADMINISTRATION

The Master of Business Administration Degree

The MBA is a professional graduate degree designed to provide an intense educational experience for students who desire to assume positions of increasing responsibility in business.

Courses in the program give the students an understanding of the principles of management, marketing and finance and a proficiency in the use of accounting, computers, statistics, and quantitative methods as tools for analysis of business activities. Also, the student is made aware of the societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business. Emphasis is placed on decision making and problem solving.

Admission Standards

The minimum standards for students in the MBA program are:

GPA = 3.00 + GMAT = 790

Students with below standard GPA or GMAT scores will be considered for admission on an exception basis. Special consideration is given if either the GPA or GMAT score is exceedingly strong.

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

Degree Requirements

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

- Economics: Econ 201 and Econ 202 or Econ 503
- Accounting: Acc 201 and Acc 202 or BA 811
- Computers in Business: CS 112
- Quantitative Methods or Principles of Decision Sciences: DS 315
- Statistics: DS 313
- Business Law: L&S 323
- Corporate Finance: BF 325
- Management Principles: MOD 349
- Marketing: MKT 311

These foundation courses cannot be used to meet the 36 semester hours required for the MBA degree. The quality of work in the foundation core should be the same as for degree requirements.
Courses successfully completed (A, B, C grades) in the student's undergraduate program are considered as sufficient preparation. Otherwise, the student must include the course deficiencies in the program of study.

Students who through experience or self study consider themselves proficient in any of these areas may complete a satisfaction by Examination in lieu of course work.

It is recommended that students complete the majority of the foundation courses before enrolling in either core courses, option courses, or electives.

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

- **Core Courses**
  - Option courses 12
  - Electives 6

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

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

### Core Courses
- BA 800V: Quantitative Analysis
- BA 810V: Business and Society
- BA 815V: Managerial Economics
- BA 820V: Managerial Accounting
- BA 835V: Human Behavior in Organizations
- BA 840V: Policy Planning, and Strategy

### Option Courses

#### Option #1 - Business Administration
- BA 830V: Environment of Management
- BA 845V: Marketing Policies
- BA 850V: Financial Management
- BA 855V: Business Conditions Analysis

#### Option #2 - Marketing
- BA 840V: Marketing Policies
- BA 841V: Promotional Policies
- BA 845V: Seminar in Marketing

#### Option #3 - Decision Sciences
- BA 802V: Research Methods in Economics and Business
- BA 803V: Business Conditions Analysis

#### Option #4 - Real Estate
- BA 860V: Real Estate and Land Use
- BA 861V: Current Problems in Real Estate and Land Use Economics
- BA 889V: Ethics

#### Option #5 - Accounting
- BA 821V: Accounting Theory
- BA 823V: Control System
- BA 825V: Seminar in Accounting

#### Option #6 - Economics
- BA 850V: Business Conditions Analysis
- BA 855V: Business Information Systems
- BA 860V: Independent Research (in Accounting)

#### Option #7 - Management
- BA 831V: The Environment of Management
- BA 835V: Personnel Administration

One of the following courses: 3
- BA 830V: Business Information Systems
- BA 850V: Business Conditions Analysis
- BA 840V: Marketing Policies

#### Option #8 - Banking and Finance
- BA 855V: Financial Management
- BA 815V: Security Analysis
- BA 855V: Seminar in Investment Management
- BA 900V: Independent Research in Finance
- BA 845V: Seminar in Money and Banking
- BA 853V: Banking and Financial Markets

#### Option #9 - Industrial Psychology
- BA 832V: Personnel Administration
- PSY 862M: Psychological Aspects of Industrial Training and Education
- PSY 861V: Seminar in Industrial Psychology

#### Option #10 - Individually Designed Program
- Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 2 C's in either foundation or graduate courses is permitted.

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 M.B.A. program at least once each semester. Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 2 C's in either foundation or graduate courses is permitted.

In selecting electives the student must be guided by the restrictions that a maximum of 6 hours of the following courses will be included in the graduate program of study.

### CIVIL ENGINEERING

**Master of Science**

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

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

The degree program is offered by the faculty of the merged departments of Civil Engineering at Omaha and Lincoln, and will be administered by the Graduate College, UN-L. Requirements for the Program will include the following:

Graduate Committee The Civil Engineering Department has a Graduate Committee of six faculty, selected from the Omaha and Lincoln campuses, appointed by the Department Chairperson and approved by the Graduate College.
COMMUNICATION

Master of Arts

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

All students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Program Committee. These core courses provide a basic, intensive and broad coverage of communication as a field of advanced study, including foundations of both mass and transactional communication in combination with research and theory. Currently the core courses are Communication 801V, 805V, 8151, and a theory or research seminar, above the 800M level, which may be in the student's area of concentration.

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

Thesis option: Successful completion of 24 semester hours of course work, at least 12 hours of which must be in graduate studies plus a thesis (6 credit hours) based on a proposal approved by the student's committee. The completed thesis is defended orally before the committee, and the committee conducts an oral comprehensive examination covering the student's field(s) of study (unless the written comprehensive examination was taken previously and passed).

Non-thesis option: Successful completion of 36 semester hours of course work, at least 18 hours of which must be in graduate studies, plus at least 6 of the 36 hours must be in the student's area of concentration. In lieu of a thesis, an independent research or creative project, based on a final approved proposal, the student's committee, may be formulated in writing, video, or film; plus a written comprehensive examination covering the student's major emphasis and minor or area studies, judged by a faculty committee.

COUNSELING AND GUIDANCE

Students may begin a program of studies in Counseling and Guidance at any one of three starting options during the course of the year. Once a program has been begun, students are expected to pursue the program on a continuous enrollment basis. Fulltime study is encouraged, however, provision is made for those who are employed or have more than part-time to pursue their program. All students are required to participate in the counseling and guidance program on a course-work basis, whether full or part-time, and must consult their advisor to determine the sequence. Failure to do so could possibly result in a delayed completion date.

Students obtain a Master's degree in Counseling and Guidance with an area of specialization. Current specialty areas include Elementary School Counseling, Secondary School Counseling (both of which require current teaching certificates as endorsement as a Counselor in Nebraska or Iowa). Agency Counseling, College Student Personnel Services, and Counseling in Gerontology. Required courses are determined in relation to the student's previous work experience and anticipated work setting. Most programs however would fit within one of the general outlines given below. Students are admitted and permitted to continue programs in Counseling and Guidance on the basis of their potential for successful training and professional practice.
UNIVERSITY OF NEBRASKA AT OMAHA

Specialization in College Student Personnel Services

I. Foundation Course
   FED 801V, Introduction to Research
   3 hours

II. Selected Core Courses
   These courses are selected in accordance with the student's particular area of interest. Most often these courses are taken in the departments of Sociology and Psychology.
   6-15 hours

III. Counseling and Guidance Courses
   These courses are selected in accordance with the student's particular area of interest. Most often these courses are taken in the departments of Sociology and Psychology.
   21-27 hours

Counseling with specialization in Gerontology

I. Foundation Course
   FED 801V, Introduction to Research
   3 hours

II. Counseling and Guidance Courses
   25-28 hours

III. Gerontology Courses
   12-15 hours

CRIMINAL JUSTICE

Degree Programs

The Criminal Justice Department offers the student a choice of a 30 credit-hour Master of Arts Degree or a 36 credit-hour Master of Science Degree in either Law Enforcement or Corrections.

Admission Requirements for the Criminal Justice Graduate Program

All candidates must have a minimum of 18 semester hours of Criminal Justice or related courses which represent the core undergraduate curriculum. In addition, all candidates must have completed a basic statistics course and a research methods course and have completed a minimum of 15 hours in the Social Science area.

Master of Arts

To earn the Master of Arts Degree in Criminal Justice with a major emphasis in Law Enforcement or Corrections, the student must satisfactorily complete the following course requirements:

Master of Arts in Law Enforcement

Required Core Courses

BIBL 301, Introduction to Biblical Studies
3 hrs.

BIBL 302, Introduction to Biblical Studies
3 hrs.

BIBL 303, Introduction to Biblical Studies
3 hrs.

BIBL 304, Introduction to Biblical Studies
3 hrs.

BIBL 305, Introduction to Biblical Studies
3 hrs.

BIBL 306, Introduction to Biblical Studies
3 hrs.

BIBL 307, Introduction to Biblical Studies
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BIBL 308, Introduction to Biblical Studies
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BIBL 309, Introduction to Biblical Studies
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BIBL 310, Introduction to Biblical Studies
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BIBL 311, Introduction to Biblical Studies
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BIBL 312, Introduction to Biblical Studies
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BIBL 313, Introduction to Biblical Studies
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BIBL 314, Introduction to Biblical Studies
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BIBL 315, Introduction to Biblical Studies
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BIBL 316, Introduction to Biblical Studies
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BIBL 318, Introduction to Biblical Studies
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BIBL 319, Introduction to Biblical Studies
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BIBL 397, Introduction to Biblical Studies
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BIBL 398, Introduction to Biblical Studies
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BIBL 399, Introduction to Biblical Studies
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BIBL 400, Introduction to Biblical Studies
3 hrs.

BIBL 401, Introduction to Biblical Studies
3 hrs.

BIBL 402, Introduction to Biblical Studies
3 hrs.
EDUCATIONAL FOUNDATIONS

Graduate courses offered by the Department of Educational Foundations serve two purposes, to prepare students for degrees in education as or as cognate or select courses on any approved program of study. The program is carefully designed to give the student a broad background in teaching and to prepare him for the profession or for graduate work in related fields. Courses are offered as part of the Master of Science Degree in Education — Urban Education Major.

The Master of Science program in Urban Education is designed for graduate students who are interested in exploring the role of the teacher in the urban school system. The program provides a broad and balanced coverage of the major areas in education and a solid background in urban education. The program is designed to meet the needs of urban educators and to prepare them for careers in urban education.

Entry Requirements:

1. Hold a Bachelor's degree from an accredited institution.
2. Submit completed application forms for graduate study together with the names of three references.
3. Complete an interview (where possible) with the Urban Education Committee.

Graduation Requirements:

For a student to graduate from the program with the Master's Degree in Urban Education he/she must fulfill the following requirements:
1) Complete a minimum of thirty-six graduate hours. (Eighteen required, six from the Primary Electives and a minimum of nine from the Secondary Electives List.)
2) Assist and/or participate in departmental colloquium activities.
3) Complete satisfactorily both written and oral sections of the comprehensive examination in urban education.
4) Complete practicum and/or field study in the immediate locale, another American metropolis, or another country.

PROGRAM:

This program will consist of a minimum of thirty-six hours selected from the following course offerings:

REQUISITE COURSES:

- FED 801V: Introduction to Research in Education
- FED 802V: Alternative Strategies in Education
- FED 803V: Urban Education
- FED 804V: Practicum or Special Projects

ECONOMICS

Master of Arts

An applicant for admission to the program for the Master of Arts degree must have completed the equivalent of 15 undergraduate semester hours in Economics. At least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, and 829V. The course work under the Master of Arts program consists of 24 hours and 6 hours of thesis under course 899V, Thesis.

Master of Science

An applicant for admission to the program for the Master of Science degree must hold a Bachelor's degree from an accredited institution and be certified at either the elementary or secondary teaching level. The degree program of at least 36 semester hours must include 12 hours of the major areas in educational administration and supervision.

An applicant for admission to the program for the Master of Science degree in educational administration and supervision (without endorsement) must hold a Bachelor's degree from an accredited institution and have completed at least 36 semester hours in educational administration and supervision. As part of the degree program, graduate course work in related fields may be taken, up to a total of not more than 12 semester hours.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

Master of Science

An applicant for admission to the program for the Master of Science degree in educational administration and supervision (with endorsement) must hold a Bachelor's degree from an accredited institution and be certified at either the elementary or secondary teaching level. The degree program of at least 36 semester hours must include 12 hours of the major areas in educational administration and supervision.

An applicant for admission to the program for the Master of Science degree in educational administration and supervision (without endorsement) must hold a Bachelor's degree from an accredited institution and have completed at least 36 semester hours in educational administration and supervision. As part of the degree program, graduate course work in related fields may be taken, up to a total of not more than 12 semester hours.

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

Specialist in Education

An applicant for admission to the Specialist in Education degree in the department of Educational Administration and Supervision must hold a Master's degree and present acceptable evidence of having served as a certified school administrator or supervisor. These programs of study are designed to prepare the candidate to pass the designated qualifying examination.
Plan B: Successful completion of 36 credit hours in course work, including at least 18 hours in \textit{806V, 808V, 809V, 810V.}\) Chairperson of any of the three aforementioned Departments.

**GENERAL SCIENCE**

The program for the Master of Arts with a major in general science represents an integration of studies in the Departments of Biology, Chemistry, and Physics. Since this program is presently undergoing revisions, requests for information during the 1977-78 academic year should be directed to the chairperson of any of the three aforementioned Departments.

** GEOGRAPHY AND GEOLOGY**

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

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

- **Option I** should be chosen by those preparing for careers in research and scholarly work, or in college or university teaching. The option requires a minimum of 24 semester hours in geography courses numbered 800M-800V and 900, and thesis 1-4 hours for a combined total of 28 hours.

- **Option II** may be chosen upon the advice and with the approval of the major advisor. This option requires a minimum of 36 semester hours in geography courses numbered 800M-899V or 999-999, or selected cognate courses in other departments. No thesis is required for this option. Students who have taken the degree under Option II and later elect to continue in graduate work for the Ph.D., will not be encouraged by the department to continue unless evidence of ability to carry on independent research is presented.

**Admission Requirements**

An applicant for admission to either the Master of Arts or the Master of Science degree program in geography must present a prerequisite minimum of 15 undergraduate semester hours of geography including Physical (106 or 107 or 117) and Cartography (333) or the equivalent. Those students who don't meet these requirements must make up the deficiency during their first year of graduate study.

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

Basic courses required for either an M.A. or M.S. degree include: Geographical Concepts and History of Geography, 801V, and Geographic Concepts: Quantitative Methods, 802V, and Field Geography, 806V. In addition, all students will be required to attend General Seminar. The remainder of the program shall consist of courses selected by the student with the advice and consent of an advising committee.

**HEALTH, PHYSICAL EDUCATION, AND RECREATION**

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

**Master of Science**

**Major in Physical Education**

To be admitted to this degree program, students must possess an undergraduate major or minor in physical education or related field. Students pursuing the Master of Science Degree with a major in physical education will select course work from the 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 advisor will determine the exact courses leading to the degree.

**AREA**

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**THE GRADUATE CATALOG 39**

**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 as follows and conform to one of the following general patterns:

I. 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 the direction of a seminar committee. A balance of 15 and 9 must be maintained between major and minor areas of study. Seminar study should be divided two and one, depending upon the student's area of concentration.

II. 13 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved hours of graduate course work in a related field, such as 9 hours constituting a graduate minor. The minor department must be consulted to determine the student's eligibility to do graduate work in that department.

In either program of study, a thesis, not to exceed 6 semester hours in independent study credit, is required under the direction of the major advisor. In the event that less than 6 hours of credit is assigned the thesis project, it should be noted that at least half of the total program must be in courses open only for graduate credit.
Students applying for study in the Interdepartmental Area must hold a bachelor's degree in Home Economics.

Candidates for the Master of Science degree in Human Development and Family Sciences must hold a bachelor's degree in another discipline. The minor portion should be a designated member of the Graduate Faculty.

Course offerings in the Interdepartmental Area are available in a variety of ways.

For the Master of Science degree in Home Economics, it is necessary to take a minimum of 9 hours in the Natural and Social Sciences. The work leading to the master's degree in Home Economics may be completed under Option I, II, or III. See Graduate Studies Bulletin for more information.

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.

The Master of Arts in Human Development and Family Sciences may be completed under Option I, II, or III.

The Department of Food and Nutrition offers a Bachelor of Science degree in Food and Nutrition. The Bachelor of Arts degree in Human Development and Family Sciences may be completed under Option I, II, or III.

The Department of Home Economics offers a Bachelor of Science degree in Home Economics.

The Graduate student must complete a minimum of 9 hours in the Interdepartmental Area.

The following conditions will be applied to the Lincoln campus, additional graduate course offerings from the Lincoln listings will be available in Omaha periodically dependent upon demand and staff.

The Graduate Catalog contains detailed information on all of the above programs.

**HOME ECONOMICS**

Home Economics graduate offerings at UNO may include a minor (HDR or FN) for those pursuing programs in another discipline. The minor portion should be determined in consultation with a designated member of the Graduate Faculty from Home Economics.

UNO courses may also be used to satisfy recertification.

A student may request a change of course offerings in the Home Economics program to the Bachelor of Science degree from an accredited institution. Departments within the college may determine specific course deficiencies.

**APPLICATION FOR A GRADUATE DEGREE**

Applications for a graduate degree in Home Economics are to be made to Graduate Studies, Lincoln Campus: In addition to this, an important step to initiate a graduate program is to consult with the chairperson of the appropriate department in Lincoln. Dean Hall, Omaha Division, will assist in making such appointments. For a graduate degree in Home Economics, it will be necessary to take four courses on the Lincoln campus, although additional graduate course offerings from the Lincoln listings will be available in Omaha periodically dependent upon demand and staff.

Interdepartmental Area offers graduate work leading to the Master of Science or Master of Art degree.

Students applying for study in the Interdepartmental Area must hold a bachelor's degree in Home Economics or an equivalent.

The undergraduate must have included the equivalent of 2 hours in Home Economics, distributed in at least three subject-matter areas and 20 hours in Natural and Social Sciences. The minor portion must be completed in one of the four cooperating departments.

When the student initially enrolls, he shall, in consultation with his or her sponsor and candidate, agree to take the comprehensive examination. The non-European portion of the examination will be over the specific course taken for the minor. The comprehensive examination will be of six hours duration (two three-hour segments), and the minor portion examination will be of three hours duration.

If the candidate offers an outside minor, the department and adviser will be responsible for the minor examination.

The reading committee will consist of the sponsor and one other graduate faculty member expert in the minor area. The reader for the minor area will be the instructor of the courses offered in the minor. In the major area, the second reader shall be the selection of the second reader must be the candidate and candidate. Both readers of the major and all readers of the minor 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 be used as the final examination.

The sponsor and the reading committee will select the items to be appropriate to the student's program and academic ability. An applicant is usually expected to have completed fifteen 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 toward the degree.

The Graduate Catalog contains detailed information on all of the above programs.
DEPARTMENT OF POLITICAL SCIENCE

PolITICAL SCIENCE

An applicant for admission to the Master of Arts or Master of Science degree program with a major in Political Science must present a prerequisite of fifteen undergraduate semester hours of coursework in Political Science or an equivalent student's academic adviser to meet individual interests and needs.

Master of Arts

Degree Requirements: The course program must include twelve hours of required thirty hours at the 800V level exclusive of thesis hours. The remaining course hours are elective but must be planned in conformance with the student's academic adviser to meet individual interests and needs.

Master of Science

Degree Requirements: For the Master of Science with a major in Political Science, eighteen hours of the required thirty hours must be at the 800V level. The remaining course hours are elective but must be planned in conformance with the student's academic adviser to meet individual interests and needs.

PSYCHOLOGY

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including intermediate level and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing. Graduate Record Examination score on the verbal, Quantitative, and Advanced Psychology Subtests and the letters of recommendation. Exceptions to these admission requirements can be made on an individual basis.

Master of Arts

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

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

1. A. Psychology 903 (Personnel in Learning)
   B. Psychology 956 (Personnel in Development)
2. A. Psychology 921 (Personnel in Perception)
   B. Psychology 922 (Personnel in Physiological Psychology)
3. A. Psychology 910 (Personnel in Analysis of Variance)
   B. Psychology 913 (Personnel in Factor Analysis)
4. A. Psychology 940 (Personnel in Personality)
   B. Psychology 942 (Personnel in Social Psychology)

The student must earn a grade of at least B in the four required personnel courses. If a C is earned, or a withdrawal (W) is recorded, in one personnel course the course may be repeated or the other in the group may be taken. Should two such grades (C's and/or W's) be recorded, the student will be dropped from the degree program. Under special circumstances (e.g., A W as necessitated by illness, a unique academic record, etc.) the departmental Graduate Committee will entertain a petition for exemption from this rule.

The remainder of the student's course work is elective but must be planned in conformance with this rule.

PSYCHOLOGY

Graduate Hours: 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.

Master of Science

To complete the M.S. with a major in industrial/organizational psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology or 24 hours in psychology plus 12 hours in a related minor field. The M.S. degree will require a comprehensive examination in a way that is determined by the department. To meet the graduate studies requirements a student must take at least half of his work in courses which are open only to graduate students.

Specialist in Education

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

Doctor of Philosophy

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

Summary of Procedure for the Doctor of Philosophy Degree

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

1. Admission to the UNL Graduate College by the evaluation of official transcripts presented in person or by mail prior to registration.
2. Registration after consultation with advisors in major and minor departments.
3. Appointment by the UNL Graduate Office of a supervisory committee on the recommendation of the department or area Graduate Committee.
4. Submission to the UNL Graduate Office of a program approved by the supervisory committee and the Graduate Committee.
5. Satisfaction of foreign language or research tool requirements as set forth in the approved program and passing of comprehensive examinations in major and minor or related fields when the student's program of courses is substantially completed.
6. Submission to the UNL Graduate Office of a report from the supervisory committee on the specific research for the dissertation and progress to date.
7. Admission to candidacy for the Ph.D. degree by filing a report in the Graduate Office of the passing of the comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination). The term of candidacy is limited to three years.
8. Filing of an application for the degree at the Registration and Records Office. Information Window, 208 Administration Building at UNL. This application is effective during the current term only. It must be renewed at the appropriate time if regraduation for graduation are not completed until during a later term.
9. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time to review and approval, which must be obtained at least three or four weeks prior to the date of the final oral examination.
10. Presentation to the Graduate Office of two copies of the approved dissertation, three copies of the approved abstract, and the application for the final oral examination at least three weeks prior to the date of that examination.
11. Approval of the final oral examination.
12. Deposition of two copies of the dissertation in proper form, on copy of the abstract, and a summary of that in a microfiche of the dissertation and publication of the abstract, with the UNL Director of University Libraries. Delivery of the certificate of deposit, signed by members of the supervisory committee, the UNL Director of University Libraries, and UNL Comptroller, to the Graduate Office. In addition, one bound copy of the dissertation is to be deposited with the student's major department.
Administrators are required for a wide variety of governmental programs and students in the M.P.A. program will likely come from widely differing backgrounds. Some may come from current public employment while others may enter with degrees in the social sciences, engineering, business administration, or the humanities.

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

For students to be admitted unconditionally to the M.P.A. program, they must have completed all general education requirements and prerequisites in the following: Introduction to Public Administration, Accounting, and Statistics. The department will recommend a provisional admission to the committee if the applicant has a grade point average of at least 3.0 in these subjects, has a grade point average of at least 3.0 in courses numbered 300 or above, and has a grade point average of at least 3.0 in courses numbered 400 or above. If any of these requirements are not met, the student will be admitted on a conditional basis.

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

- SW 821, Human Behavior and the Social Environment I
- SW 822, Human Behavior and the Social Environment II
- SW 851, Social Welfare Policy & Services I
- SW 852, Social Welfare Policy & Services II
- SW 915, Social Work Practice in Child Welfare
- SW 924, Social Work Practice in Mental Health
- SW 953, Delinquency and its Treatment
- SW 962, Administration in Social Work
- SW 964, Supervision in Social Work
- SW 975, Community Planning & Organization
- SW 989, Advanced Seminar in Social Work Practice
- SW 963, Special Studies in Social Welfare

SECONDARY/POST-SECONDARY EDUCATION

Major in Secondary Education

Programs in Secondary Education are developed on an individual basis by the student and his 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 scores on the General 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 study.

Master of Science (Minor)

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

AREA

<p>| | | |</p>
<table>
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<tbody>
<tr>
<td>HOURLS</td>
<td>Min</td>
<td>Max</td>
</tr>
<tr>
<td>I. SED Core</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SED 421V — Seminar in Secondary Education</td>
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</tr>
</tbody>
</table>

Other area of the following:

- SED 490V — Problems Post-Secondary/Higer Education
- SED 430V — Seminar for Coordinating Teachers
- SED 430V — Emerging School Curriculum
- SED 430V — Analysis of Teacher Behavior
- SED 430V — Simulation Learning Laboratory for Secondary Teachers
- SED 930V — Seminar in Applications of Non-Verbal Communication Theory

II. Research

- Research Methods, Statistical
- Methods, Tests & Measurements
- Professional Specialization
- Improvement of Instruction, Teaching
- Seminars, Independent Research
- Special Studies

IV. Related Professional Courses

V. Related Academic Courses

Total: 36 hours

*A minimum of 15 hours of SED courses must be included in each plan of study. Minimum or maximum are determined by advisor.

**Minimums or maximums are determined by advisor.

Master of Science (without Minor)

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

Students seeking the Master of Arts Degree in Sociology must meet the following requirements. Students seeking the Master of Arts 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.

### Requirements for the Master of Arts in Sociology

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>I.  SED Core</td>
<td>Min.</td>
</tr>
<tr>
<td>SED 823 — Seminar in Secondary Education</td>
<td>9</td>
</tr>
<tr>
<td>SED 825 — Seminar in Secondary Education (with one of the following):</td>
<td>Max. 25</td>
</tr>
</tbody>
</table>

#### I.  SED Core

| SED 800 M — Problems: Post-Secondary/H Secondary Education | Min. 3 |
| SED 820 V — Seminar for Cooperating Teachers | 3     |
| SED 809 V — Emerging School Curriculum | 3     |
| SED 833 V — Analysis of Teacher Behavior | 3     |
| SED 846 V — Simulation Gaming Laboratory for Secondary Teachers | 3     |
| SED 946 V — Seminar in Applications of Non-Verbal Communication Theory | 3     |

#### II.  Research

- Research Methods, Statistical Methods, Tests and Measurements: 3
- Professional Specialization: 12
- Improvement of Instruction, Teaching Field
- Seminars, Independent Research, Special Studies: 12
- Related Professional Courses: 2
- Courses that support ultimate goal of the student as approved by advisor in advance of any course enrollment: 9

#### III.  Related Academic Courses

- Total: 36 hours
- Total: 30 hours

### Sociology

#### Specializations

- Sociology**: The specialization in Sociology is designed for students interested in research and teaching in sociology at the college level. The student must complete 21 additional graduate semester hours, including 9 hours in research methods and at least one semester of fieldwork. A thesis is required.

#### Requirements

- A minimum of 36 semester hours of Sociology and related courses.
- At least 21 semester hours of Sociology must be taken at the university level.
- At least 12 semester hours must be taken at the 800-level.
- At least 12 semester hours must be taken at the 800-level.
- A minimum of 21 additional graduate semester hours, including at least nine semester hours of 800-level work. A thesis is required.

#### Master of Science in Applied Sociology

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

Master of Arts: Speech Pathology

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

1. 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.)

2. Submit two letters of recommendation from people who know your undergraduate work well.

3. Have successfully completed a minimum of twenty-four semester hours of work pertinent to admittance to the major. These hours are to include the following courses or their equivalents:
   - SPED 341, Introduction to Communication Disorders
   - SPED 433, Speech Reading and Auditory Training
   - SPED 437, Hearing Loss and Audiology
   - SPED 428, Speech Mechanisms
   - SPED 470, Hearing Science
   - SPED 443, Speech Pathology I: Articulation
   - SPED 465, Speech Pathology II: Rhythm and Symbolization
   - SPED 450, Communication Disorders in the Elementary and Secondary Schools
   - SPED 451, Basic Clinical Practicum in Speech Pathology
   - SPED 472, Childhood Language Disorders

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

5. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   - Required Courses:
     - FED 801V Introduction to Research
     - SPED 451V Advanced Clinical Practicum in Speech Pathology (school)
     - SPED 452V Advanced Clinical Practicum in Speech Pathology (externship)
     - SPED 464V Diagnostic Methods in Communicative Disorders
     - SPED 468V Clinical Audiology
   - Elective Courses:
     - Students may choose any of the courses in the area numbered 800V or above.
   - Thesis:
     - Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of his committee.

Master of Arts: Mental Retardation

The Master of Arts degree with a major in mental retardation is a program primarily designed for persons certified or have near certification in special education. It involves a concentrated course of study designed to improve and advance competencies in the area of mental retardation and to provide investigative approaches to problems associated with children who are mentally retarded. Requirements include:

1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major advisor.

2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.

3. Students may undergo course work which will lead to:
   - a major of 24 hours in mental retardation.
   - a thesis not to exceed six semester hours. OR
   - a major of 15 semester hours in mental retardation.
   - a minor of nine semester hours in a related field of interest.
   - a thesis not to exceed six semester hours.

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

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

6. Subject to review of the applicants transcripts and related experience of retarded children, required courses may be selected from the following:
   - Required Courses:
     - FED 801V Introduction to Research
     - SPED 470V Seminar in Special Education
     - SPED 477U Practicum in Special Education
     - SPED 478P Thesis
   - Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.

Master of Science: Reading

The Master of Science degree with a major in reading conforms to standards of the International Reading Association 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, they are recommended for K-12 endorsement in reading in Nebraska.

1. Core Professional Courses
   - 18 hours
   - Including work in graduate reading courses SPED 911, 912, 813V
   - 814V, 815V, 917V or 918V or their equivalents.

2. Related Professional Courses
   - 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.

3. Related Cognate Courses
   - 12 hours
   - Including selected work in such areas as guidance and counseling
   - and/or the various subject areas mentioned under sections 1 and 2.

Master of Science: Speech Pathology

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

1. 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)

2. Have successfully completed a minimum of twenty-four semester hours of work prerequisite to admittance to the major. These hours are to include the following courses or their equivalents:
   - SPED 341, Introduction to Communication Disorders
   - SPED 433, Speech Reading and Auditory Training
   - SPED 437, Hearing Loss and Audiology
   - SPED 428, Speech Mechanisms
   - SPED 450, Communication Disorders in the Elementary and Secondary Schools
   - SPED 451, Basic Clinical Practicum in Speech Pathology
   - SPED 472, Childhood Language Disorders
   - SPED 850, Diagnostic Methods in Communicative Disorders
   - SPED 851V, Advanced Clinical Practicum in Speech Pathology (school)
   - SPED 852V, Advanced Clinical Practicum in Speech Pathology (externship)
   - SPED 864V, Diagnostic Methods in Communicative Disorders
   - SPED 868V, Clinical Audiology

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

4. Thirty-six hours of course work and practicum. These hours may be taken from the following:
   - Required Courses:
     - FED 801V Introduction to Research
     - SPED 850V, Diagnostic Methods in Communicative Disorders
     - SPED 851V, Clinical Audiology
     - SPED 851V, Advanced Practicum Speech (School)
     - SPED 852V, Advanced Practicum Speech (externship)
     - SPED 853V, Seminar in Speech Pathology
     - SPED 857V, Seminar in Special Education
   - Elective Courses:
     - SPED 842V, Advanced Studies in Disorders of Voice
     - SPED 843V, Advanced Studies in Disorders of Rite and Rhythm
     - SPED 844V, Advanced Studies in Disorders of Aspiration and Related Problems
     - SPED 845V, Current Practice in Speech Pathology
     - SPED 847V, Speech Science III: Neuropsychology of Speech and Language
     - SPED 850V, Basic Practicum Speech
     - SPED 855V, Alertness Speech Rehabilitation
     - SPED 856V, Speech Problems of Cerebral Palsed Children

5. Elective Courses in Related Areas
   - Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas.
Master of Science: Teaching the Deaf

The Master of Science degree with a major in teaching the hearing impaired is based on the standards for the certification of teachers of the hearing impaired as developed by the Committee on Professional Preparation and Certification adopted by the Council on the Education of the Deaf. Students who plan to enter this program must show evidence of having held a valid certificate in one of the following areas: elementary education, secondary education, K-12 special content area.

A Nebraska pre-standard certificate and a CED provisional certification will be recommended upon satisfactory completion of the program.

SPED 820M. History, Education, and Psychology of the Deaf 2 cr. hrs.
SPED 821M. Teaching of Speech to the Deaf I 2 cr. hrs.
SPED 822M. Teaching Speech to the Deaf II 2 cr. hrs.
SPED 823M. Teaching Language to the Deaf I 2 cr. hrs.
SPED 824M. Teaching Language to the Deaf II 2 cr. hrs.
SPED 833M. Hearing Loss and Audiology 2 cr. hrs.
SPED 839M. Hearing Science 3 cr. hrs.
SPED 870V. Sensori in Special Education 3 cr. hrs.
FED 801V. Introduction to Research 3 cr. hrs.
SPED 820M. Curriculum Planning for the Disabled 3 cr. hrs.
SPED 872V. Basic Student Teaching 3 cr. hrs.
SPED 873M. Advanced Student Teaching 3 cr. hrs.
SPED 810V. Research Projects 3 cr. hrs.

38 cr. hours

Master of Science: Teaching the Mentally Retarded

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

1. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Dean for Graduate Study and Research and the Major advisor.
2. Applicants who hold a valid teaching certificate. Those not holding teaching certificates will be required to take preparatory courses in teacher education (the number of courses to be taken will be subject to the review of the applicant's transcripts and his/her related experiences in teaching children).
3. To be admitted as a candidate for an M.S. degree with a major in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.
4. Each candidate, having successfully completed thirty hours of course work, and practicum, and enrolled for their last six hours, will be required to pass a final written and oral examination.
5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FED 801V. Introduction to Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 860V. Interdisciplinary Approaches to Developmental Disabilities</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 860S. Introduction of the Mentally Subnormal Child</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 860M. Curriculum Planning for the Developmentally Disabled</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 860V. Theoretical Approaches for Teaching the Developmentally Disabled Child</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 860M. Methods and Materials for Teaching Mentally Retarded</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 872V. Basic Observation and Student Teaching</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 873V. Advanced Observation and Student Teaching</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPED 810V. Research Projects</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Entrance Requirements:

1. Admission to the University of Nebraska at Omaha Graduate College requires that the Graduate Record Examination (GRE) be taken within Step I of program sequence.
2. Teaching Certification
   A. The student must hold a teaching certificate from a state education agency and be eligible to teach in elementary or secondary grades, special education, or special services (psychology, guidance counseling, etc.)
   B. 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.
   C. Students accepted into the program without certification must submit to his/her advisor a deficiency plan for completing certification.

3. Teaching Experience
   Students must have completed a minimum of two years of successful teaching in pre-school, kindergarten, elementary, secondary, special education, or special services before final endorsement is recommended. It is possible for students to enter and complete the program without teaching experience; however, endorsement will not be recommended until two years of teaching has been completed.

4. Pre-requisite Courses
   Regardless of the student’s major area of study coming into the program, his/her transcripts must show courses, graduate or undergraduate, which relate to:
   A. Child Development — 3 hours
   B. Learning Theory — 3 hours
   C. Curriculum Development — 3 hours
   D. Student Teaching (or equivalent) — 3 hours
   E. Methods Courses — 3 hours

5. Pre-competency Evaluation
   Upon admission to the Graduate College and prior to entering Step I, the student must make arrangements with his/her program advisor to undergo pre-competency evaluation. This evaluation will include the following:
   A. Written — this will test the ability of the student to articulate in writing a position taken by him/her relative to previous work or teaching experience.
   B. Interview (informal) — an interview conducted by the faculty will be used to seek information from the student relative to his past experiences, personal and specific attitudes, and approaches to various problems of teaching and pupil-teacher relationships.
   C. Objective Test — this is designed to examine the student’s past and present exposure to theories and terms concerning the area of special education and learning disabilities.
Course Requirements:

1. **STEP I** (12 hours) — This is an entrance level step which will prepare the student in the theoretical aspects of learning, language, and behavioral deficits. It is also designed to give the student a foundation for the inquiry approach to problem solving. Courses for Step I include the following:

   **Required** (9 hours)
   - SPED 840: Learning Disabilities (3)
   - SPED 880: Social and Emotional Growth of Children and Youth (3)
   - FED 801: Introduction to Research (3)

   **Electives** (3 hours)
   - SPED 911U: Problems in Teaching Reading—Elementary (3)
   - SPED 912U: Problems in Teaching Reading—Secondary (3)
   - SPED 800U: Interdisciplinary Approaches to Developmental Disabilities (3)
   - SPED 875M: Childhood Language Disorders (3)
   - SPED 847V: Neuropsychology of Speech (3)
   - SPED 871V: Parent/Professional Relationships (3)
   - Psy 836V: Learning in Children (3)
   - Psy 839V: Linguistic and Cognitive Development (3)
   - Psy 859V: Social and Personality Development (3)

2. **STEP II** (16 hours) — Upon successful completion of Step I, student will enter Step II which is the candidacy level. Step II combines both theory and practice in preparing the student in the analysis of children's learning and emotional behavior and the application of intervention techniques relative to learning problems. During this step, students must submit to the Graduate College a completed Application for Candidacy Form. Courses for Step II include the following:

   **Required** (13 hours)
   - SPED 855V: Basic Diagnosis of Learning Deficits (3)
   - SPED 856V: Advanced Diagnosis of Learning Deficits (4)
   - SPED 857V: Clinical Teaching in Learning Disabilities (3)
   - SPED 881M: Classroom Techniques for Behavior Control (3)

   **Electives**
   - SPED 862M: Curriculum Planning for the Disabled (3)
   - SPED 863V: Diagnostic and Remedial Instruction in Reading (3)
   - SPED 867V: Diagnostic and Remedial Techniques for Early Childhood (3)
   - Psy 813M: Psychological and Educational Testing (3)
   - Cora 831V: Child Assessment in Elementary School Guidance (3)
   - Eled 819V: Diagnostic and Corrective Instruction (3)
   - Eled 843V: Introduction to Curriculum Planning—Elementary (3)
   - Eled 822M: Learning Materials for Early Childhood Education (3)
   - SPED 830V: Emerging School Curriculum (2)
   - SED 877V: Vocational Curriculum Construction (3)

   **Other secondary methods courses**
   - SPED 810V: Research Projects
   - SPED 800V: Special Projects

   **Comprehensive Evaluation** — At the end of Step I and prior to entering Step III, each student will be given a comprehensive evaluation of Step I experiences. This evaluation may take the form of a written exam or oral exam or both. Students must attain at least an 80 percent proficiency level before enrolling in Step II. Students not attaining an 80 percent proficiency level may: (a) be evaluated a second time and/or (b) be recommended to take additional elective courses, or (c) be given a comprehensive evaluation of Step I experiences. This evaluation may take the form of a written exam or oral exam or both. Students must attain at least an 80 percent proficiency level before enrolling in Step II. Students not attaining an 80 percent proficiency level may: (a) be evaluated a second time and/or (b) be recommended to take additional elective courses, or (c) be given a comprehensive evaluation of Step I experiences. This evaluation may take the form of a written exam or oral exam or both. Students must attain at least an 80 percent proficiency level before entering Step III. Students not attaining an 80 percent proficiency level may: (a) be evaluated a second time and/or (b) be recommended to take additional elective courses from the program.

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

   - SPED 850: Seminar in Special Education (3)
   - SPED 873: Advanced Observation and Student Teaching in Special Education (3)
   - SPED 872: Basic Observation and Student Teaching in Special Education (3)

   **Master of Science: Teaching the Emotionally Disturbed**

   **Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 810V</td>
<td>Introduction to Research</td>
<td>1</td>
</tr>
</tbody>
</table>

**The Master of Science degree provides a major in teaching the emotionally disturbed, including courses and field experiences which will lead to certification. Precursory work includes a course in child development and state certification in at least one teaching field. The number of candidates for the degree will be restricted.**

**U R B A N S T U D I E S**

Master of Science With a Major in Urban Studies

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

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

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

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

**Degree Requirements**

Thirty-six semester hours of course work are required. A core of six required courses shall be completed, plus nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 833V, 844V, 850V, 852V, and History 844M or 812M, and a course in research methods. Courses applicable to the area of concentration may include, but are not necessarily restricted to, Political Science 892M, 843M, 880V, Public Administration 840V, 842V, 844V, 846V, 847V; Geography 811V, Psychology 899; Sociology 810M, 814M, 815M, 827M, 899M, 880M, 811M, Gerontology 810M, 892M; Counseling 899M, 822V, 827V, Community and Regional Planning 811M, 812V. A minimum of nine hours of optional credit may be selected from Economics 855V, 887V, 888V; History 843M, 811M; Geography 881V, 812V; or any of the courses listed above.

Eighth hours of the course work must be at the 800V level. A comprehensive final examination is required, although a thesis is not required.

SPED 860V: Interdisciplinary Approaches to Developmental Disabilities
SPED 880M: Emotional Development of Children and Youth
SPED 881M: Classroom Techniques for Behavior Control
SPED 870V: Seminar in Special Education
SPED 872V: Basic Observation and Student Teaching of Special Education
SPED 873V: Advanced Observation and Student Teaching of Special Education
SPED 874V: Parent-Professional Relationship in Special Education
SPED 884M: Learning Disabilities
Psych 845M: Personality Theories
Psych 851V: Advanced Educational Psychology
Psych 857V: Behavior Modification
(NP) 851: Developmental Psychology
(NP) 852: Group Dynamics
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.

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

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

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

Art

831M Advanced Sculpture (3) Advanced work in area of student’s choice with facilities for oxicrylylene welding, arc welding, and wood working. Prereq: Art 311 and permission of instructor.

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

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

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

834V Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: Art 431 and permission.

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

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

Biology

822J Microtechnique (3) A course in the techniques of fixation, dehydration, staining, cleaning and mounting biological material in the manufacture of microscope slides. Prereq: Two years of biological sciences.

834J Ecology (4) The study of the behavior of whole organisms and groups of organisms in relation to their total living and non-living environment. Prereq: For 334, Biology 145 and 175, junior-senior. For 834M, Biology 145 and 175.

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


354/854J Morphology of Higher Plants (4) A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends.

Prereq: For 354, Biology 145, junior-senior. For 854J, Biology 145.


371/871M Fauna of The Great Plains (3) A survey of the common animal groups found in the great plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands. Prereq: For 371, Biology 145, junior-senior. For 871M, Biology 145.

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

381/881J Embryology (4) A study of the principles of development in multicellular organisms, including current concepts derived from experimental embryology, with emphasis on vertebrate morphogenesis. Prereq: General zoology, Biology 175, and a course in vertebrate anatomy.

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

416/816M Cellular Biology (4) This course is a comprehensive study of the structure and function of plant and animal cells. Prereq: For 414, Biology 145 and 175, organic chemistry, or permission of the instructor. Junior-senior. For 816M, Biology 145 and 175, organic chemistry, or permission of the instructor.

418/818N Histology (4) A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment. Prereq: For 418, Biology 145, 175, and organic chemistry, junior-senior. For 818M, Biology 145, 175, and organic chemistry.

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

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


492/992V Paraparasitology (4) Taxonomy, morphology, physiology, life history, dissemination, and control of the parasitic protozoans, helminths, and arthropods. Prereq: BI 475. Biology 175.


472/872M Experimental Endocrinology 472V (3) An introduction to the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: For 472, a course in endocrinology, concurrent registration in Biology 473 or permission of instructor. Junior-senior. For 872M. Biology 175.

473/873M Experimental Endocrinology 473V (3) A survey of endocrine physiology stressing the regulatory and integrative roles of the hormones, the control of the endocrine system, the properties, the biological effects, and the control of the nervous system. Prereq: For 472. Junior-senior. For 873M.

473/873M Experimental Endocrinology 473V (3) A survey of endocrine physiology stressing the regulatory and integrative roles of the hormones, the control of the endocrine system, the properties, the biological effects, and the control of the nervous system. Prereq: For 472. Junior-senior. For 873M.


492/992V Paraparasitology (4) Taxonomy, morphology, physiology, life history, dissemination, and control of the parasitic protozoans, helminths, and arthropods. Prereq: BI 475. Biology 175.


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business conditions. Emphasis is placed upon the practical application of the techniques of accounting in business situations.

Pre: Econ 800 or Econ 202.

380Y Managerial Economics (3) Economic analysis of the business firm and its environment, with emphasis on market structure, pricing, production possibilities and cost factors. Additional consideration is given the theory of the firm under conditions of uncertainty. Pre: Econ 800 or Econ 202.

280Y Managerial Accounting (3) A study of concepts, analysis, and procedures of accounting utilized in planning and controlling routine operations, for non-routine decision, policy making and implementing, and for external reporting to stockholders, governments, and interested parties. Pre: BA 813 or Acct 202.


380Y Managerial Accounting (3) A study of control techniques and the control function of an enterprise. Pre: BA 820 or BA 821.

580Y The Environment of Management (3) A study of the business area which may be independent or interrelated in private, public, and governmental accounting. Pre: BA 820 or BA 821.

380Y The Environment of Management (3) A classical and behavioral study of the organization and its environment which decision-making occurs to accomplish the efficient and economic achievement of its objective. Pre: Mgt 249 or BA 814.

31V Human Behavior in Organization (3) An interdisciplinary study concerned with the problems of combining and utilizing human resources to the effective and efficient operation of business enterprises. Pre: BA 349 or BA 814.

32V Personal Administration (3) Extensive treatment of the relevant developing theories and coverage of certain new methods, techniques, and procedures that are related to personal administration and human resource management. Efforts are made to select and present material in its practical, applied aspects of resource management and personnel administration. Only those areas of human problems in organizations. Pre: BA 31V.

35V Seminar in Management (3) A student-presenter course emphasizing current issues and problems in the areas of management theory and operation. Pre: BA 830V and BA 831V.

380Y Marketing Policies (3) A marketing management course designed to determine the policies employed in solving problems in marketing. Pre: Mgt 231V or BA 831V.

41V Promotional Policies (3) Analysis of the methods, research, and policies needed to develop and administer an effective promotional program. Pre: Mk 331 or BA 815.

485V Seminar in Marketing (3) Exploration of selected topics and critical analysis of contemporary marketing problems, trends, methods and approaches for semi-annual written and review report. Pre: BA 840V.

590V Financial Management (3) Examines the major problems of managing financial resources of an enterprise with emphasis on analysis and solution of long and short-term financial issues relevant to policy decisions. Pre: BF 325 or BA 816.

51V Security Analysis (3) A study of the techniques of analyzing marketable securities. Statistical techniques and regulatory procedures are examined as well as broader bases for analysis and evaluation of securities. Pre: BF 325 or BA 813.


23V Control Theory (3) An analysis of the concepts and basic techniques of the controller's function with emphasis on operational control and long range planning. May be taken concurrently with 12 hours of accounting.

43V Seminar in Accounting (3) A study of problems which may be independent or interrelated in public, private and governmental accounting. Pre: BA 820 or BA 821.

580Y Financial Accounting (3) A study of the areas of financial accounting and analysis of recent problems in the areas of financial accounting and analysis. Pre: BA 820 or BA 821.

580Y The Environment of Management (3) A classical and behavioral study of the organization and its environment which decision-making occurs to accomplish the efficient and economic achievement of its objective. Pre: Mgt 249 or BA 814.

580Y Managerial Accounting (3) A study of control techniques and the control function of an enterprise. Pre: BA 349 or BA 814.

580Y The Environment of Management (3) A classical and behavioral study of the organization and its environment which decision-making occurs to accomplish the efficient and economic achievement of its objective. Pre: Mgt 249 or BA 814.

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580Y Managerial Accounting (3) A study of control techniques and the control function of an enterprise. Pre: BA 349 or BA 814.

429/829M Applications of Microbiology to Sanitary Engineering. (3) Applications of microbiology to the treatment of waste waters and the bacteriological examination of water and sewage systems. Prereq: CE 220. For 829m, graduate standing and Civil Engineering 327.

835M Soil Mechanics. (3) Application of the effective stress principle to shear strength of cohesive soils; analysis of stability of slopes; verification of continuum relationships for soils; solutions for stresses and displacements for an elastic continuum; solution of the consolidation equation for various initial and boundary conditions. Prereq: Civil Engineering 334; or equivalent.

411/844M Structural Analysis I. (3) Analysis of statically indeterminate structures, including continuous members, frames, and trusses. Numerical and classical methods of analysis, including an introduction to solutions by matrix methods: proportioning shallow foundations; pile driving analysis; control of groud water. Prereq: Graduate standing, Civil Engineering 334; or equivalent.

456/856M Advanced Hydrology. (3) Advanced topics in hydrology with emphasis on methods of solution to hydrologic problems, such as: rainfall, snow, ground water, and seasonal variation. Prereq: CE 335 or equivalent. Graduate standing.

457/857M Irrigation Engineering. (3) Introduction to the principles of engineering hydrology, with emphasis on the investigation of hydrologic problems, including hydrologic principles, runoff, soil erosion, and design of irrigation systems. Prereq: CE 454. Civil Engineering 334 or permission of the instructor. For 857m, graduate standing and permission of the instructor.

464/864M Traffic Engineering. (3) Traffic engineering principles and concepts with emphasis on traffic operations and engineering problems. Prereq: CE 335 or equivalent. Graduate standing and permission of the instructor.

465/865M Pavement Design and Evaluation. (3) Traffic engineering principles and concepts with emphasis on traffic operations and engineering problems. Prereq: CE 335 or equivalent. Graduate standing and permission of the instructor.

474/874M Urban Transportation Planning. (3) Development of urban transportation planning.
805V Alcoholism Treatment Modalities (3) An examination of alcoholism treatment modalities. Prereq: Consent of department.

820V Counseling Procedures (2-4) Counseling experience under the supervision of a practicing counselor of the university. Prereq: Consent of department.

820V Counseling Seminar (2-3) The group process with emphasis on the experiential aspects. Prereq: Consent of department and permission of instructor.

821U Counseling with Parents (3) A course emphasizing techniques used in working with families. Prereq: Consent of department and permission of instructor.


822V Clinical Counseling (3) A study of the techniques used in counseling. Prereq: Consent of department and permission of instructor.

822V Counseling in Guidance and School Work (3) A course designed to acquaint the counseling student with the techniques used in counseling guidance. Prereq: Consent of department.

825V Counseling in Guidance and Social Work (3) A course designed to acquaint the counseling student with the techniques used in counseling guidance. Prereq: Consent of department.

827V Group Techniques in Guidance (3-2) The group process with emphasis on the experiential aspects. Prereq: Consent of department and permission of instructor.

828V Criminal Justice (3) An examination of the role of parents in America and to other alternatives to the delinquency process. Prereq: Consent of department.

828V Criminal Justice Seminar (3) An examination of the role of parents in America and to other alternatives to the delinquency process. Prereq: Consent of department.

837V Group Counseling Techniques (3) A course designed to acquaint the counseling student with the techniques used in counseling guidance. Prereq: Consent of department.

840V Substance Abuse Counseling (3) An examination of the role of parents in America and to other alternatives to the delinquency process. Prereq: Consent of department.

849V Guidance Services and The Disadvantaged Youth (3) A study of the techniques used in counseling and guidance with special emphasis on the problems of the handicapped and disadvantaged. Prereq: Consent of department.

849V Special Counseling Seminar (3) A course designed to provide practical experience under supervision of various areas within student personnel services. Prereq: Consent of department.

850V Parent Education Seminar (3) Review of literature related to the role of parents in America and to programs in parent education. Prereq: Consent of department and permission of instructor.

850V Professional Ethics (3) A course designed to acquaint the counseling student with the techniques used in counseling guidance. Prereq: Consent of department.

850V Ethical and Professional Standards in Counseling (3) A course designed to acquaint the counseling student with the techniques used in counseling guidance. Prereq: Consent of department.

850V Theological Criminology (3) A study of the role of the clergy in America and to other alternatives to the delinquency process. Prereq: Consent of department.

850V Seminar in The Processors of The Criminal Justice System (3) An examination of the role of parents in America and to other alternatives to the delinquency process. Prereq: Consent of department.

850V Seminar in Delinquency Prevention, Control and Correction (3) An inquiry into the social ramifications of the entire juvenile delinquency process including labeling, delinquency, incarceration and tolerance. Prereq: Consent of department.

886M Audio-Visual Materials in Education (3) A course designed to acquaint the counseling student with the techniques used in counseling guidance. Prereq: Consent of department.

THE GRADUATE CATALOG 67
Dramatic Arts

891M-892M Advanced Projects in Dramatic Art (1-3) Special projects in dramatic art, supplementing regular courses; 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.

8063 Children's Theatre Production (3) Study of the planning, direction, design, acting and production of plays for children. Students plan a complete children's theatre production or become involved in its actual production. Prereq: Undergraduate major or minor in theatre or permission of the instructor.


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

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

851M Costume Design (Each) An examination of costume design from the fundamentals of stage costume design, including line, silhouette, movement, color, texture and individuality. Emphasis on the visual presentation of designs, including costume work with life drawing and rendering technique. Prereq: DA 206-207, 351; Art 110, 121.


870M Stage and TV Lighting (3) Characteristics and control of light and color and their application to the theatre and television: elementary electronic systems; reflectors, lights, control systems. Prereq: DA 101, 206, 207, 261.

871M History of the Theatre to 1642 (3) A historical survey of the theatre and its literature from its origins to 1642.

872M History of the Theatre Since 1642 (3) A historical survey of the theatre and its literature from 1642 to the present.

873M Seminar in Theatre History (3) Selected subjects in theatre history from ancient to modern times. The subject of the course will change each year, according to the interest of the students and the instructor. Prereq: Permission of the instructor.

883M Seminar in Dramatic Literature (3) A seminar for graduate and advanced undergraduate students which will explore selected subjects in dramatic literature in depth. Research papers and seminar reports will be required. The subject of the seminar will change from year to year. Prereq: Permission of the instructor.

Economics

805V Economic Education (I) (3) Open to any graduate student with no previous college work in economics. Prereq: K-12. Not open to majors in economics. A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish refreshing stimuli to the school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles.

806V Economic Education (II) (3) A continuation of the study of economic education covering principles of economic education. Prereq: Econ 805V.

807V Economic Education Institute (3) A study and an in-depth examination of selected economic concepts and their relation to citizen, students, teachers, community and society. Prereq: Permission by director of the institute.

816V Seminar in Labor Economics (3) A study and investigation of current developments and issues of labor related to wages, labor relations, trade unions, policy, and labor management. Prereq: Six hours of credit in undergraduate labor economics or permission.

820V Seminar in Micro Theory (3) This seminar develops modern micro-economics with an emphasis on utility functions and demand, production functions and cost, price and non-price policy of the firm, market and multi-market equilibrium. Emphasizes theoretical methods and techniques as well as specific content. Prereq: Econ 330 or permission of the instructor.

821M Competition and Monopoly in American Industry (3) An appraisal of the role of competition and monopoly in the American economic system with an examination of market structures, conduct, and economic performance in a variety of industries. Prereq: Econ 320.

821V Managerial Economics (Same As BA 11H) (3) A study of the principles of graduate students in business. Economic analysis of the business firm's decision-making strategies, with emphasis on market structure, production possibilities, and cost factors. Additional consideration is given to the theory of the modern economic system under conditions of uncertainty. Prereq: Graduate standing in the college of business administration.

822V Seminar in Macro Theory (3) A study of the evolution and establishment of the Keynesian model. An analysis of the macro theory and the many refinements of the Keynesian model. To learn some extensions of the Keynesian theory, especially in connection with inflation, investment, and economic growth. A development of understanding of recent work in fiscal and monetary theory. Prereq: DA 101 or permission of instructor.

823M Advanced Micro-Theory (3) A study of the role of marginal analysis and the concept of demand, supply, and growth. Classical and Keynesian systems are contrasted with recent theoretical principles being explored. Prereq: Econ 322.

824V Business Conditions Analysis (Same As BA 885V) (3) A study of modern economic theory and policy. The development of modern aggregate theory is reviewed. Recent fiscal and monetary policies and their effect on employment, inflation, investment, and economic growth are examined. Emphasis is given to understanding policy in a dynamic economic environment. Prereq: Completion of the college of business administration.

829V Research Methods in Economics and Business (3) The study of research techniques in business and economics. Prereq: Permission of instructor.

830V Econometrics (3) The study of the underlying assumptions, techniques, and applications of economic time series and cross section regression analysis in economics. Prereq: Permission of instructor.

845V Seminar in Money and Banking (3) Specialized research design and analysis in economics. Prereq: Permission of instructor.

857V Economic Education Institute (3) A study and an in-depth examination of selected economic concepts and their relation to citizen, students, teachers, community and society. Prereq: Permission by director of the institute.

865V Seminar in International Economics (3) The study of the trade technique of current issues in international economic theory, policy and institutions. Prereq: Econ 365 or 466 or permission of instructor.

880V Independent Study (Each 3) Guided independent study and research under supervision. Prereq: Graduate student in economics and permission of the instructor.

989V-999V Urban-Regional Research (Each 3) For masters of science degree, students must complete three courses in economics only. Consists of a study in urban economic problems, employing research techniques. Students do independent research, consulting with adviser, and submitting completed reports to a departmental committee. Prereq: Permission of graduate adviser.

995 Thesis (1-6) An independent research project, writing under the supervision of an advisor in the department of economics. Approval of the topic and the research design is determined by the student's departmental committee. Prereq: Permission of graduate adviser.

941V Seminar in American Economic History to 1865 (See History) (1) (3)

941 Seminar in American Economic History Since 1865 (See History) (1) (3)

Educational Administration and Supervision

890 Seminar in Research Design (3) A seminar designed to acquaint students with the principles of research design and the proper application of the principles to the evaluation of programs in educational administration. Prereq: Admission to Ed. S. Program.

980V Special Studies in Educational Administration and Supervision (3) Special courses of intensive nature, especially designed for educational administrators and supervisors of schools and school districts. May be taken in the area of educational administration or educational administration. Prereq: Admission to education administration program.

985V School-Community Relations (3) This program is designed to acquaint the student with all aspects of school-community relations. Primary attention will be given to ...
I' 911 Field Project in Educational Administration
analysis of specific problems in educational administration, and the role of electronic data processing.
UNIVERSITY OF NEBRASKA AT OMAHA
ministration and
inter-relationship to and implications for educational administration and supervision as they relate to the elementary and/or secondary school.

848V Supervision of Vocational Education
problems that modern society is confronted with. Emphasis will be placed on the role of supervisory practices as they relate to the elementary and/or secondary school.

853V Seminar in Educational Administration
implications for educational administration and the role of electronic data processing in education.

854V Pracitcium in Educational Administration and Supervision (3) Designed to provide guides of study and practice in elementary, secondary and adult education and supervision as the interests and needs of the student require.

860V School Plant Planning and Operation (3) Includes steps in planning the modern school building, site selection, financing, design and architecture; school furniture and equipment; maintenance and operation; rehabilitation; school grounds and maintenance of internal care. Prereq: FED 801V and EdAd 835V.

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

862V Administration and Staff Personnel (3) This course deals with the analysis of educational problems and issues in the following areas: Teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations and policies. Emphasis is placed on an in-depth understanding of the techniques of democratic administration. Prereq: FED 801V and EdAd 835V.

871V Interpersonal Relationships in Educational Administration (3) This course is designed specifically to deal with interpersonal and group relationships. It should be useful to those administrators who recognize the need to increase their knowledge of and skill in human relations.

880V Administration and Supervision of Vocational Education (3) Basic concepts for administration and supervision of vocational education, as well as the responsibilities of the supervisor, principal, and supervisor.

881V Urban School Administration (3) This course is designed to provide the historical and philosophical foundations of urban education as they relate to the economic, social, and environmental aspects of urban education. Prereq: FED 801V and EdAd 840V.

885V Administration and Supervision in Elementary Schools (3) The nature, principles and functions of administrative and supervisory practices as they relate to the elementary school. Prereq: FED 801V and EdAd 835V.

886V Administration and Supervision in Secondary Schools (3) The nature, principles and functions of administrative and supervisory practices as they relate to the secondary school. Prereq: FED 801V and EdAd 835V.

890V The Urban School (3) An analysis of the societal and institutional processes and problems which have affected the development of children in urban settings. A study of the urban school.

892V Administration of Higher Education (3) A study of the major functions of higher education with emphasis on the transmission, contributes to and is influenced by continuity and change in higher education. Emphasis is placed on the total study of the society selected and its resulting educational adaptation and future educational directions.

893V Communication for Teachers of The Disadvantaged (3) An intensive interdisciplinary course dealing with the nature of the disadvantaged and the communication skills for teachers, and group interaction for the instructional teams working with low-income pupils.

894V Education of the Disadvantaged (3) An intensive study of the educational systems of selected nations in Europe, Asia, Latin America, and Africa. Comparative emphasis is placed on a total study of the society selected and its resulting educational adaptation and future educational directions.

895V Seminar in Education (3) Systematic study of problems and developments which have current significance to American or foreign education, the individual student and group analysis emphasized.

896V Education and Society (2) A study of the problems, trends, and issues which form the social setting in which education is carried on. Emphasis will be placed on the role of the social setting in education.

897V Alternative Strategies for Education (3) An intensive study of the present and prospective educational organization and practice on the student level and the formal and informal evaluation of student educational performance. The course covers the major trends and problems of adult education and the portrayal of the role of the future of education. Prereq: FED 801V and EdAd 835V.

898V Introduction to Research (3) To acquaint the student with the research process and to give some understanding of the meaning and spirit of research, to enable the student to read, evaluate and apply research reports and techniques.

899V History and Philosophy of Education (3) An analysis of the historical and philosophical foundations of education. Prereq: FED 801V.

900V Urban Education in the Modern Society (3) An analysis of the urban education system and the role of the future in education. Prereq: FED 801V.

901V Social and Cultural Foundations of Education (3) Designed to provide the student with an understanding of the social and cultural foundations of education. Prereq: FED 801V.

902V Principles of Adult Education (3) An introduction to the study of adult education as a major field of study. The course surveys the major trends and problems of adult education and the development of the role of adult educators. Prereq: FED 801V.

903V Adult Group Leadership (3) A study of the principles of modern society and the characteristics of effective leadership in groups. Prereq: FED 801V.

904V Problems of Adult Education (3) An intensive study designed to give the student a basic understanding of child development and learning problems of the disadvantaged children and youth. Prereq: FED 801V.

905V Special Studies (3) A series of intensive courses scheduled as regular seminars, or workshops, according to purpose.

906V Seminar in Education (3) Designed to provide guidelines for study and practice in elementary, secondary, and adult education. Prereq: FED 801V.

907V Administration of The Instructional Materials (3) A course designed for students who wish to prepare themselves for the administration of an educational media program within an educational institution.

908V Administration of Supervision in Junior High School (3) This course is designed to study the problems and issues associated with the nature of the supervisory role of the junior high school principal.

909V Management (3) An analysis of the functions of business management: budgetary procedures, financial accounting, payroll and reporting, management of funds, purchasing procedures and inventory, administration of property, and administration of transportation.

910V School Finance (3) A study of the sources of support for schools and the administration of the surplus revenues generated by community activities. Prereq: FED 801V and EdAd 835V.

911V Field Project in Educational Administration (3) A study of the principles and practices conducted in the classroom. Major emphasis is given to the teacher's role in motivating the learning environment that will foster learning to relate to others and to the environment. Secondary emphasis is placed upon communication phenomena and the roles of the teacher and authority structures upon mental health.

912V Statistical Analysis and Research Methods (3) Designed to give the student an understanding of the concepts of research and methodology, and to enable the student to design an experiment or research project, and to collect data in an organized and meaningful manner. Prereq: FED 801V and EdAd 835V.

913V Research Project (1-3) Individual or group study and analysis of specific problems in schools.

914V Conflict and Controversy in Urban Education (3) A course designed for students who wish to prepare themselves for the administration of an urban educational system. Emphasis will be placed on the relationship of the educational institution and the teaching profession to social and political processes. Topi cs are modified annually to reflect changing educational issues. Class meetings are scheduled once each semester.

915V Field Research Techniques in Urban Education (3) The purpose of this course is to give students an opportunity to conduct field research within the urban educational milieu. Anthropologie methods and naturalistic studies will be given emphasis. Students will be required to conduct field research and will learn to gather and collate data. The course will culminate in the completion of an urban educational research project. Prereq: Graduate standing, FED 801, 833, for permission of instructor.

916V Anthropology and Urban Education (3) This course is designed to examine ways in which educational systems in urban environments in the United States and other comparable countries are influenced by and influence urban cultural environments. Emphasis will be placed on the understanding and working knowledge of the cultural concepts and roles that many cities and their institutions play in the development of urban education.

917V Introduction to Research (3) A course designed to provide guidelines for study and practice in elementary, secondary, and adult education. Prereq: FED 801V.

918V Adult Education: Learning for Tomorrow (3) An intensive study of the problems and issues which form the social setting in which education is carried on. Emphasis will be placed on the role of the social setting in education.

919V Education-Learning-Tomorrow (3) A study of the principles and practices conducted in the classroom. Major emphasis is given to the teacher's role in motivating the learning environment that will foster learning to relate to others and to the environment. Secondary emphasis is placed upon communication phenomena and the roles of the teacher and authority structures upon mental health.
280V Practicum Internship (2-8) An integration of community and classroom experiences with special reference to the disadvantaged pupil. Each semester the curriculum area of the junior high and elementary schools language, social studies, evaluation processes, classroom control and curriculum are the focus.

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

Elementary and Early Childhood Education

420/820M Literature for Children and Youth (3) Selection, evaluation and guidance in various types of literature for early childhood and elementary school levels with emphasis on developing a broad acquaintance with authors and works, and including the development of a better understanding of the significance of literature in meeting children's needs and interests.

427/827M Current Trends in Early Childhood Education (3) This course is intended for students with an interest in the area of early childhood education and its current status in the national and international levels. Prerequisite: Admission to teacher education, FED 205, 208, EDUE 229, 58 hours, required grade point average;

428/828M Patterns of Parental and School Care (3) An analysis of patterns of parental home and school care of the young child from birth to six years.

429/829M Learning Materials for Early Childhood Education (3) Designed to promote the development of sound criteria for use in selecting appropriate learning materials for children from three to eight years of age. (F,S)

800V Special Study (1) A series of intensive courses for teachers in service — scheduled as regular seminars, or workshops, according to need.

801V Individualization of Instruction (3) This course is designed for experienced teachers who desire to study the philosophy and various aspects of individualization of instruction in the elementary school. Prerequisite: Admission to Graduate College.

807V Research Project (1-3) Individual or group study, and analysis of specific problems in schools.

810V Diagnostic and Corrective Instruction (3) A study of methods of diagnosing children's difficulties in all subject areas of the educational program of the elementary school and corrective techniques for overcoming such problems.

280V Improvement of Instruction in Elementary Science Education (3) The course is designed for graduate students in education who wish to become better informed about the recently developed programs for teaching science, the philosophy, and emphasis in instruction, which are characteristic of these programs. Prerequisite: Admission to Graduate College.

281V Improvement of Instruction in Elementary Mathematics (3) An examination of the philosophy, aims, and methods of modern mathematics programs for the elementary school. The needs and backgrounds of the students enrolled during the semester are given special consideration.

310V General Introduction to Instruction in Social Studies (3) This course is intended for those professionals wishing to learn about the "New Social Studies." Current strategies and research appropriate to this topic will be explored.

340V Innovations and Trends in Elementary Education (3) Designed as an advanced study for the purpose of exploring current trends and developments within the various subject matter areas of the elementary school. Prerequisite: FED 801V.

343V Introduction to Curriculum Planning- Elementary (3) A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate methods of curriculum organization. Prerequisite: FED 801V.

444 Seminar in Elementary Education (3) A study of educational problems as they relate to the elementary school, to be taken in the last nine hours in the program for the master of science degree. Prerequisite: FED 801V.

445V Seminar in Supervision of Student Teachers-Elementary (3) Designed for experienced student teachers who are or may be serving as cooperating teachers, and who have had their first semester teaching, its aims, procedures, objectives, trends and developments. Prerequisite: 2 years of teaching experience.

807V Practicum in Elementary and Early Childhood Education (3-6) This practicum is designed for selected graduate students who are participating in the graduate program in elementary and early childhood education. The six-hour practicum experience will consist of one semester of full-time teaching in an elementary school under the supervision of graduate faculty in the department of educational psychology and early childhood education. (Half-time teaching will grant 3 hours of credit.) Prerequisite: Permission of advisor.

817V Advanced Practicum in Elementary Education (3) Advanced practicum will demand an increased responsibility of the student for one semester and a concomitant increase in variety of experiences, based upon his individual needs. EED 871v is a continuation and refinement of the quality of teaching based upon his performance during his first practicum experience (EED 870v). Prerequisite: Permission of advisor and satisfactory completion of EED 870v, practicum in elementary education.

899 Thesis (1-6) Independent research project required of the candidate taking master of arts degree. See major advisor.

English

415/815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels. Prerequisite: Permission of the instructor. (Semester Fricht 415/815 and German 415/ 815m).

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

419/819M Nineteenth Century Novels in French and Anglo-American Literature (3) A comparative study of selected works in French and Anglo-American literature. Conducted in English with French translations. Prerequisite: Permission of instructor. (Semester Fricht 419/819m).

832M Middle English Literature (3) A survey of the principal works in English, excluding those of Chaucer, from 1100 to 1500.

433/833M Sixteenth Century Literature (3) Poetry and prose of the English renunciation, from its continental origins to the end of the Elizabethan age.

434/834M Seventeenth Century Literature (3) Poetry and prose of the English renaissance, from its continental origins to the end of the Elizabethan age.

440/840M The Age of Pope and Swift (3) Poetry, prose (exclusive of the novels), and drama of England during the eighteenth century, with emphasis on Pope and Swift.

441/841M The Age of Johnson (3) Poetry, prose (exclusive of the novels), and drama of English literature during the eighteenth century, with emphasis on Boswell and Johnson.

445/845M Seventeenth Century Literature (3) A study of the English poetry and prose from 1600 to 1700 with emphasis on Milton and Marvell.

500M Shakespeare in Contemporary Literature (3) A study of the development of the English drama, exclusion of Shakespeare, from the beginnings to 1642.

505M Introduction to Linguistics (3) An introduction to the techniques and methodology of the study of language: includes language description, historical theory, variation, and acquisition as well as semantics, lexicography, and foreign language learning.

506/806M The Eighteenth Century English Novel (3) Readings in the English novel from Daniel Defoe to Jane Austen.

465/865M The Nineteenth Century English Novel (3) Readings in the English novel from Jane Austen to Thomas Hardy. Prerequisite: English 232.

466/866M The Twentieth-Century English Novel (3) Readings in the English novel from Joseph Conrad to the present.

868M History of English (3) A study of the structural development of English as seen by the traditional, structural, and transformational—generative schools of language description. Prerequisite: English 458/858M or permission.

878M Structure of English (3) A study of the phonology, morphology, syntax and semantics of English as seen by the traditional, structural, and transformational—generative schools of language description. Prerequisite: English 458/858M or permission.

881M Literature of the Romantic Period (3) Poetry and prose (excluding the novel) from England and Ireland, 1790 to 1830.

482/882M Literature of the Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1900. Prerequisite: English 232 or permission.

885M Twenty-First Century English Literature (3) Readings in English literature from Shaw to Yeats to the present.

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

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

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

894M Studies in Language and Literature (3) Specific subjects (when offered) appear in class schedule. Complete syllabi available in English Department.

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 I.

496/896M Seminar: Linguistics (3) A seminar in a selected, sub-field or problem area of linguistics such as sociolinguistics, generative semantics, applied linguistics, descriptive linguistics, teaching English as a foreign language. Prerequisite: 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 novelists from the nineteenth and twentieth centuries.

899M 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 development of the theater in the twentieth century.

801V Seminar: Introduction to Literary Research (3) A survey of literary research, history, and interpretation, with a primary emphasis on methods of scholarship in the study of English and American literature.
**Foreign Languages and Literature**

**French**

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

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

419/819M Comparative Studies in French-Anglo-American Literature (3) A comparative study of selected works in French and Anglo-American literature. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 419/819M.)

421/821M Studies in the Romantic Period (3) Literature of the Renaissance, Rabelais, Rousseau, Montaigne. Prereq: Any 300 course in literature or permission of instructor. (Same as German 421/821M.)

431/831M Seventeenth Century French Literature (3) The classical school: Descartes, Pascal, Corneille, Moliere, Racine, La Fontaine. Prereq: Any 300 course in literature or permission of instructor. (Same as German 431/831M.)

440/840M Eighteenth Century French Literature (3) Study of the Enlightenment: Montesquieu, Voltaire, Rousseau and Diderot. Prereq: French 315 or permission of the instructor.

451/851M Nineteenth Century French Literature (3) Study of the literature of the nineteenth century. Flaubert, Proust, Musil, Mann, Hemingway, Joyce. Prereq: French 315 or permission of the instructor.

457/857M Twentieth Century French Theater (3) Study and analysis of selected French plays from 1900 to the present. Prereq: French 315 or 316 and permission.

458/858M Modern French Novel (3) Reading and discussion of representative novels of the modern period. Prereq: French 315 or 316, or permission.

459/859M Twentieth Century Poetry (3) Examination of the development of poetry in the contemporary period. Prereq: French 315 or 316, or permission.

460/860M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, language acquisition as well as semantics, lexicography, and phonetics. Prereq: Graduate standing or permission; graduate standing required for French 460/860M. (Same as German 460/860M.)

486M Independent Study (1-3) Guided independent study and research under tutorial supervision. Prereq: For 486M only, not in same maximum for six semester hours total. Prereq: Permission of instructor.

489M Pro-Seminar (1-3) Detailed study of narrower phases of French literature, language or culture. Prereq: Permission of instructor.

**German**

410/810M Introduction to Germanic Folklore (3) An intensive familiarization of the student with the development of the Germanic peoples and their literature from the Indo-Germanic period to the present. Folklore as an academic field and the definition of the material studied by the student of folklore. Introduction to the folklore of the Middle Ages, the Renaissance and the Augustan Age (1660-1750). Prereq: Graduate standing.

417/817M The Restoration and Early 18th Century (3) A detailed study of selected English works of the Restoration and 18th century, with emphasis on the social and economic factors underlying the literature of the period. Prereq: Permission of instructor. (Same as English 417/817M.)

419/819M Comparative Studies in French-Anglo-American Literature (3) A comparative study of selected works in French and Anglo-American literature. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 419/819M.)

421/821M Studies in the Romantic Period (3) Literature of the Renaissance, Rabelais, Rousseau, Montaigne. Prereq: Any 300 course in literature or permission of instructor. (Same as German 421/821M.)

425/825M Studies in the Baroque Period (3) Study and analysis of selected works of the Baroque period. Prereq: German 303 or permission of the instructor. (Same as English 425/825M.)

437/837M Eighteenth Century German Literature (3) Study of the literature of the eighteenth century. Lessing, Goethe, Schiller, Blake. Prereq: German 303 or permission of the instructor. (Same as English 437/837M.)

440/840M Nineveh Century German Literature (3) Study of the literature of the nineteenth century. Schopenhauer, Heine, Nietzsche, Hesse. Prereq: German 303 or permission of the instructor. (Same as English 440/840M.)

451/851M Twentieth Century German and French Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as French 451/851M and English 451/851M.)

457/857M Twentieth Century German Theater (3) Study and analysis of selected French plays from 1900 to the present. Prereq: French 315 or 316 and permission.

458/858M Modern German Novel (3) Reading and discussion of representative novels of the modern period. Prereq: French 315 or 316, or permission.

459/859M Twentieth Century German Poetry (3) Examination of the development of poetry in the contemporary period. Prereq: French 315 or 316, or permission.

460/860M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, language acquisition as well as semantics, lexicography, and phonetics. Prereq: Graduate standing or permission; graduate standing required for French 460/860M. (Same as German 460/860M.)

486M Independent Study (1-3) Guided independent study and research under tutorial supervision. Prereq: For 486M only, not in same maximum for six semester hours total. Prereq: Permission of instructor.

489M Pro-Seminar (1-3) Detailed study of narrower phases of German literature, language or culture. Prereq: Permission of instructor.

**Spanish**

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

411/811M The Golden Age (3) Study of the prose masterpieces of the sixteenth and seventeenth centuries. Prereq: For 411, Spanish 317 or permission of the instructor.

417/817M Spanish Baroque (3) Study and analysis of selected works of the Baroque period. Prereq: Spanish 317 or permission of the instructor.

432/832M Spanish Modern Drama (3) Survey of literature of the twentieth century. Prereq: Spanish 317 or permission of the instructor.

438/838M German Civilization From the 18th Century (3) Survey of the influence of modern German art, architecture, literature, music, and philosophy on the development of technology upon modern German civilization and culture. Prereq: For 438, permission of the instructor. (Same as German 438/838M.)

459/859M Spanish Novel (3) Survey of the development of the Spanish novel from its beginning to the twentieth century. Prereq: For 459, permission of the instructor. For 859M, German 303 or permission of the instructor.

460/860M Spanish Modern Drama (3) Survey of the development of modern Spanish drama from its beginning to the present. Prereq: For 460, Spanish 322 or permission of the instructor.

468/868M Mexican American Literature (3) A study of representative works of Mexican American, Spanish American, and some Latin American writers, along with their cultural and historical antecedents. Does not apply toward foreign language requirement. Prereq: Permission of the instructor.
420/820M Spanish American Novel (3) Study of representative novels and novellas of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prereq: Spanish 321 and 322 or permission of the instructor.

424/824M Generation of 1898 (3) Examination of the ideology, philosophy, and literary techniques of this period, with emphasis on the works of Sullivan, Larrea, Olguín, and Peñalver. Prereq: Spanish 321 and 322 or permission of the instructor.

453/853M Advanced Fluid Mechanics (3) Ideal and real fluid flows: Eulerian and Lagrangian equations of motion; boundary layer flows; potential theory; confor-

mational transformations; turbulent flow; boundary layer flows; boundary layer theory. Prereq: Math 230 and permission of the instructor.

804V Experimental Stress Analysis (3) Investigation of the basic theories and techniques associated with the determination of stress and strain fields, and the control of research in the field. Prereq: GE 493 or permission of the instructor.


823V Theory of Elastic Stability (3) Beam col-
sules, elastic buckling of bars and frames, elastic buckling of bars torsional buckling, lat-
tered buckling of beams. Prereq: Math 225.

823V Similitude (3) The principles and illustra-
tions of dimensional methods, similarity and model testing, displacement of structures, fluid flow, heat transfer, electromagnetic theory, acoustics and wave propagation, similarity and similarity methods. Prereq: Math 225.

819V Engineering Vibrations (3) Systems with one degree of freedom: systems with non-linear and variable spring characteristics; systems with several degrees of freedom; vibration of elastic bodies. Prereq: Math 225, advanced math for engineers.

Geography and Geology

401/801M Conservation of Natural Resources (3) A study of the physical, cultural, and human re-
sources of various types of United States. Emphasis is placed on the history of United States and the distribution of resources. Prereq: GE 235, Math 225.

401/803M Advanced Mechanics of Materials and Structures (3) Strains and stresses at a point: fields of stresses and strains, bending and shearing: elastic and plastic behavior of materials. Prereq: GE 325, Math 225.


410/8101 Pilot Geography (3) A study of the worldwide geographic distribution of geologic and physical phenomena in terms of weather, climate, and vegetation and the physical and ecological factors that determine their location. Special attention to North America is included. Prereq: 3 photogr. 102 and Botany 445, or permission. (Same as 810-812M-M 225.)

412/812M Urban Geography (3) A geography of the city from the viewpoint of history, the city and its environment, the city and its institutions. Prereq: 410 or permission. (Same as Econ 412-812M and Soc 412-812M.)

413/813M Geography of Manufacturing (3) A course in the discussion methods of measurement and classification, as well as the function of manufacturing. Major manufacturing regions, location criteria, and the U.S. and local community planning. Prereq: GE 313 or Econ 201 and 202. Junior standing. (Same as Econ 413-813M.)

414M Urban Sociology (3) Examinations urban theoreti-
cal, sociological, urbanization, processes, and the diversity of metropolitan communities, urban strips, and urban neighborhoods, community power and urban political organization. Prereq: Soc 414-814M. 

Prereq: Graduate standing and permission of instructor.

423M Great Plains and Nebraska (3) This is a regional geography course intended for geography majors and arts and sciences students who may have an interest in this particular area. It is desirable to have had some previous study with regional geography, but this is not necessary. Prereq: For 423, 6 hours of Geography and junior standing. For 823M, 2 semesters of Geography.

425/825M Landform Studies I (Geomorphology I) (3) Primarily a lecture course with quantitative work involved. Emphasis on understanding more theoretical aspects of processes and conditions that produce landforms. Should be regarded as first half of a two-semester landform studies course. Prereq: For 425, Geog 207 or 117. Junior standing. For 825M, Geog 207.

426/826M Landform Studies II (Geomorphology II) (3) Primarily a lecture and laboratory course. Emphasis on the methodology and modern process-oriented geomorphology. Should be taken in second half of a two-semester landform studies course. Prereq: For 426, Geog 107 or 117. Junior standing. For 826M, Geog 107 or 117. Prereq: 426/826M or permission of instructor.

425M Government of the United States (3) Historical study of the political development of the United States. Emphasis is placed on the political developments in the United States at selected times in the past. Prereq: For 825/826M or permission of instructor.
975 Seminar in Regional Geography (3-6) Maximum 3 per semester, except in Foreign country field work.

991-992 General Seminar (0) Required. Review of current research in the community identifying national and international associations and initial thesis proposal.

410/810M Educational Gerontology (3) An introduction to the educational needs of the aging population. Prereq: Permission of instructor.

411/811M Applied Social Gerontology (3) An introduction to social gerontology with a special emphasis upon the changes in the family and community and the relationship of these changes to the aging, with a particular emphasis given to children and the elderly. Prereq: Nine hours of sociology. (Same as Sociology 411)

423M Issues in Aging (3) This course is intended for students in Gerontology and in other fields who are interested in the later half of the life cycle and preoccupy with understanding significant issues which affect the lives of older people. Prereq: Graduate standing.

446/846M Aging and Humor Behavior (3) The course examines different kinds of behavior and the changes which may occur in age. Applications of various personality theories concerning aging will be considered. Prereq: 3 hrs. gerontology or permission.

445/845M Comparative Gerontology (3) The study of aging around the world by a comparative method in a cross-cultural and cross-national framework. An examination of some practical experiences and developments in Europe, Asia, and Africa will be examined. Prereq: Three hours gerontology or permission.

455/855M Health Aspects of Aging (3) The study of psychological, sociological, and medical factors that influence the health of the aging population, with particular emphasis given to biological changes that have implications for disease and health disorders. (Same as HED 455)

458/858M Gerontology (3) The study of the behavior and development of the aged individual, with particular emphasis upon the aging process and its relationship to the individual's environment. Prereq: Six hours of psychology, sociology, and/or biology. (Same as Psychology 458)

467M Programs and Services for the Aging (3) This course is provided to give the student an understanding of the aging process as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. (Same as Sociology 458)

485M Health Aspects of Aging (3) The study of psychological, sociological, and medical factors that influence the health of the aging population, with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: For 455, six hours of health or permission of the instructor.

580V Seminar in Social Gerontology (3) An interdisciplinary seminar on the aging person and society. Special emphasis is given to the problems and opportunities presented by aging as a social process. Prereq: Permission of instructor.

581V Seminar in Social Gerontology (3) An interdisciplinary seminar on the aging person and society. Special emphasis is given to the problems and opportunities presented by aging as a social process. Prereq: Permission of instructor.

600V Special Studies in Clinical Gerontology (3) A seminar in the current research and development in the field of clinical gerontology.

698/898M Practicum (0-6) This course provides the opportunity to students to field research and to provide guidance concerning various relationships with field agencies, clients, and employers; and to develop comprehensive plans for the field of aging. Prereq: Nine hours of Gerontology or permission.

699/899M Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for use in application in gerontology. Prereq: Permission of instructor.

881V Seminar in Social Gerontology (3) An interdisciplinary seminar on the aging person and society. Special emphasis is given to the problems and opportunities presented by aging as a social process. Prereq: Permission of instructor.

891-892 General Seminar (0) Required. Review of current research in the community identifying national and international associations and initial thesis proposal.

Health, Physical Education and Recreation

General HPER

800V Special Studies (1-3) A series of intensive core courses and seminars designed to fill specific needs of students or institutions. Prereq: Permission of instructor.

835M Issues in Aging (3) The study of psychological, sociological, and medical factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders. (Same as Sociology 412) Prereq: 9 hrs. of gerontology or permission.

810V Research Project (1-3) Individual or group research project designed to study a problem in health, physical education, or recreation. Prereq: Permission of instructor.

825M Internship in Metropolitan Planning and Development (1-6) (repeatable up to 6 hours.) An introduction to local public agencies enabling students to gain knowledge and experience in comprehensive regional and local planning. Prereq: Permission, and 12 hours graduate credit in geography.

826V Seminar in Metropolitan Planning and Development (3) An overview of the present status of planning in metropolitan areas with emphasis on techniques of urban design, comprehensive plans, and problems of the central city. Prereq. (Same as Econ. 88L and P.A. 88L)

887/888V Interdisciplinary Seminar On The Urban Community (1-6) An interdisciplinary course on the metropolitan community in which various governmental and college offerings converge with urban problems are put on a broad interdisciplinary basis. Prereq. Undergraduate major or one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also open to other graduate students, political science, and sociology)

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


955 Topics in Regional Geographical of Nurit University (1-6) A seminar in the study of the geography of Western North America from the perspective of a particular discipline. Prereq: A sequence of field courses reviewed on a regional basis rather than the general geography of a specific region. Prereq: Permission.

Physical Education

822V Problems and Issues in Physical Education (3) An examination of current problems and issues in college, secondary, and elementary physical education concerning goals and problems that relate to the general aims and purposes of education in physical education.

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

828V Curriculum in Physical Education (3) A study of the foundations for curriculum development and related education. 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 orienting the student to possible areas of research and development. The student is expected to read and review important and significant studies in the field.

837V Improvement of Instruction in Physical Education (3) The study and supervised application of current programs, content, methods, and materials for improvement of physical education, with special consideration given to the 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 selection and practice of motor skills having relevance for the teaching of physical education.

845V Kinesiological Analysis of Motor Skills (3) An investigation of the biomechanical basis of motor performance. Includes a descriptive analysis of the skills and fundamental movement patterns and an examination of techniques for teaching a biomechanical basis of motor performance.

Professional Physical Education

903/893M Measurement and Evaluation of Physical Education (3) Analysis of tests, measurement approaches, and testing procedures used in physical education. Includes a review of basic descriptive statistics; an introduction to the behavior of test administration is provided. Prereq: For 493, junior standing and physical education 243.

904/894V Physiology of Exercise (3) A study of the major physiological systems of the human body and their relation to the planning and execution of physical exercise programs. Includes application of physiological concepts to the development of the physical education curriculum and student teaching. Prereq: HPER 288 or equivalent. F, SU.
Recreation/Leisure Studies

424/824M Organization and Administration of Recreation (3) Designed to provide a back- ground of information on community recreation with special attention to organization, pro- gramming, administration and the administrative aspect. Prereq: For 824M, at least 9 hours of upper division courses in recreation or permission of the instructor.

430/830M Recreation Programming (3) An ad- vanced examination of the principles of and planning through practical application of research techniques, utilizing survey, analysis, case study and comparing study results. Prereq: For 830M, recreation major or permission of instructor. For 830M, advanced recreation major or minor or permission of the instructor.

825V Sport in American Culture (3) The course is a study of the ways in which sports influence people in America. Prereq: Graduate standing, or permission of the instructor.

825V Sport in American Culture (3) The course is a study of the ways in which sports influence people in America. Prereq: Graduate standing, or permission of the instructor.

424M Early Federal Period, 1789-1815 (3) A study of the interworks of politics, eco- nomics, foreign affairs in molding government and society during the formative years of the United States. Prereq: For 424M, junior standing or permission of the instructor.

416/816M The Jacksonian Era (3) An inter- pretive study of the middle period of American his- tory. Prereq: For 416, junior standing or permission of the instructor.

416/816M The Jacksonian Era (3) An inter- pretive study of the middle period of American his- tory. Prereq: For 416, junior standing or permission of the instructor.

424/824M The Emergence of Modern America: 1877-1901 (3) A study of a transitional period in American history. This course considers the importance of industrialization, urbanization, immigration, and the emergence of the United States as a significant world power. Prereq: For 424, junior standing or permission of the instructor.

427/827M Twentieth Century America to 1932 (3) A study and interpretation of the United States from the end of the nineteenth century to the election of Franklin D. Roosevelt to the presi- dency. Prereq: For 427, junior standing or permission of the instructor.

426/826M Twentieth Century America to 1932 (3) A study and interpretation of the United States from the end of the nineteenth century to the election of Franklin D. Roosevelt to the presi- dency. Prereq: For 426, junior standing or permission of the instructor.

435/835M The Age of Renaissance (3) An intro- duction to the economic, social, political, cen- tral and renaissance era and the principal thinkers, writers, and artists of the period. Prereq: For 435, junior standing or permission of the instructor. Prereq: For 435, junior standing or permission of the instructor.

435/835M The Age of Renaissance (3) An intro- duction to the economic, social, political, cen- tral and renaissance era and the principal thinkers, writers, and artists of the period. Prereq: For 435, junior standing or permission of the instructor. Prereq: For 435, junior standing or permission of the instructor.

391/891A Topics in History (3) A seminar on selected topics based on a consideration of historiography and/or source materials. Prereq: Permission of the instructor.

495/895M History of Women in The United States (3) A study of the changing status of women in the United States. Prereq: For 495, junior standing or permission of the instructor.

441/841M American Social and Intellectual His- tory Since 1865 (3) A study of the intellectual and social changes in American culture from the colonial period to the achievement of suffrage. Prereq: For 441, junior standing or permission of the instructor.

441/841M American Social and Intellectual His- tory Since 1865 (3) A study of the intellectual and social changes in American culture from the colonial period to the achievement of suffrage. Prereq: For 441, junior standing or permission of the instructor.

441/841M American Social and Intellectual His- tory Since 1865 (3) A study of the intellectual and social changes in American culture from the colonial period to the achievement of suffrage. Prereq: For 441, junior standing or permission of the instructor.

339/839 Diplomatic History of The United States Before 1900 (3) A study of the foreign relations of the United States before 1900. (A) 339/839 Diplomatic History of The United States Before 1900 (3) A study of the foreign relations of the United States before 1900. (A) 339/839 Diplomatic History of The United States Before 1900 (3) A study of the foreign relations of the United States before 1900. (A) 339/839 Diplomatic History of The United States Before 1900 (3) A study of the foreign relations of the United States before 1900. (A)

418/818 The American Frontier: 1600-1840 (3) A history of the American frontier west of the Mississippi River. Prereq: For 418, junior standing or permission of the instructor.

418/818 The American Frontier: 1600-1840 (3) A history of the American frontier west of the Mississippi River. Prereq: For 418, junior standing or permission of the instructor.
A Systems Study of England Under Our World of Today. Prereq: For 461, junior standing or permission of the instructor.

475V Nineteenth Century Intellectual History: A Perspective Emphasizing the Nineteenth-Century Revolution, Protocols, Ideology, and Impact upon Russian Society. Prereq: For 477, junior standing or permission of the instructor.

478/V Nineteenth Century in Europe: 1890-1932 (3) A study of the conditions and forces preceding World War I, the war itself, the peace that followed, and the rise of the modern dictatorships. Prereq: For 477, junior standing or permission of the instructor.

481V Comparative War 11. The Result and Dislocation of Tenions Between the Structor. Permission of the Instructor.

485/885M Great American Historians (11) (3) A survey of the history of England from the colonial times to the present. Reports based on reading assignments. Prereq: For 487, junior standing or permission of the instructor.

487V Great American Historians (1) (3) A survey of the history of European historical writing from Homer to Toomey. Reports based on selected readings.

491V Special Tutorial in American History. Readings and research in selected topics of American History. This course will be offered at the 400 level when taught by a graduate faculty fellow.

515V Seminar in European History (3) or (3) Special Topics in European History Readings and research in selected topics of British History. This seminar will be offered at the 400 level when taught by a graduate faculty fellow.

522/822 Professional Study Tour - International or Domestic 4. Studies of Fashion B. Interior Design (1-4 credit, per semester, maximum 2) A learning experience for broadening the scope of experience and understanding of the heritage of fashion or interior design. The experience includes visits to museums, art, exhibit, and field experiences. Prereq: For 478, junior standing or permission of the instructor.

540 Seminar in American Economic History Since 1865 (Also Econ. 540)

541 Seminar in American Economic History Since 1865 (Also Econ. 541)

555M Economic History of the Western World Since 1850 (3) This course discusses the evolution of capitalism and its social and political economic significance. The course will be co-taught with Business 315.

584M Nineteenth Century in Europe to 1850 (3) This course discusses the evolution of capitalism and its social and political economic significance. The course will be co-taught with Business 315.

585M Economic History of the Western World Since 1850 (3) This course discusses capitalism and its general acceptance in the western world and its consequences and criticisms which have emerged over the past century and a quarter. In addition, attention is given to the role of government in the development of economic systems in the least developed nations. Approaches related to economic, social, institutional, and intellectual developments are also presented. Prereq: For 487, junior standing or permission of the instructor.

586M Advanced Research Project in History (1, 1.5-3) Special problems in advanced research selected on the basis of interest to the student and arrangement with the instructor.

587M Historical Research (1) (3) The critical method in collecting and organizing historical materials: the processes of verification, evaluation and synthesis of facts; the problems of sources. Documentation, styling and printing the product. Prereq: Graduate standing or permission of the instructor.

589M Historical Research (1) (3) The critical method in collecting and organizing historical materials: the processes of verification, evaluation and synthesis of facts; the problems of sources. Documentation, styling and printing the product. Prereq: Graduate standing or permission of the instructor.

600V Great American Historians (11) (3) A survey of the history of England from the colonial times to the present. Reports based on reading assignments. Prereq: For 487, junior standing or permission of the instructor.

605/805 Nutrition Throughout the Life Cycle (3) Influence of normal physiological stress throughout life cycle: pre-conception, infancy, childhood, adolescence, adulthood, and aging. Prereq: 3 hours nutrition, 3 hours human development and family 6 hours natural science or permission of instructor. (F)

606/806 Parent-Child Education With Field Experiences (3) Review of literature relative to the role of parents in America and to programs in parenting. A study of the basic concepts in dynamics of group discussion, child development and family relationships pertinent to the class and field experiences. Lect. lab. arr. Same as Coop 599, 699, Human Dev. 270, 300 or equiv. or permission of instructor.

615/815 The Child and Family In The Community (3) Study of translation and agencies pertaining to children and families. Field trips and supervised experiences to contacts with community agencies. Offered alternate years only. Lect 2 lab. 3 Prereq: Permission of instructor.

622/822 Professional Study Tour - International or Domestic 4. Studies of Fashion B. Interior Design (1-4 credit, per semester, maximum 2) A learning experience for broadening the scope of experience and understanding of the heritage of fashion or interior design. The experience includes visits to museums, art, exhibit, and field experiences. Prereq: For 478, junior standing or permission of the instructor.

625/825M Great American Historians (11) (3) A survey of the history of English historical writing from Homer to Toomey. Reports based on selected readings.

630S Seminar in European History (3) or (3) Special Topics in European History Readings and research in selected topics of British History. This seminar will be offered at the 400 level when taught by a graduate faculty fellow.

632/832 Professional Study Tour - International or Domestic 4. Studies of Fashion B. Interior Design (1-4 credit, per semester, maximum 2) A learning experience for broadening the scope of experience and understanding of the heritage of fashion or interior design. The experience includes visits to museums, art, exhibit, and field experiences. Prereq: For 478, junior standing or permission of the instructor.

634/834 Critical Aspects of Design (3) Cultural approach to development of the creativity patterns of various population groups. Factors involved in food habit alteration. Prereq: Art 427, or 428. Prereq: For 478, junior standing or permission of the instructor.

635S Seminar in European History (3) or (3) Special Topics in European History Readings and research in selected topics of British History. This seminar will be offered at the 400 level when taught by a graduate faculty fellow.

636S Seminar in European History (3) or (3) Special Topics in European History Readings and research in selected topics of British History. This seminar will be offered at the 400 level when taught by a graduate faculty fellow.


645/845M Ecological Projects in Engineering Management (3) General concepts and principles of formal and informal organizations applied to case studies. Prereq: IE 205.

646/846M Industrial Decision Models (3) Extension of concepts of engineering economy, and managerial economics to decision-making under risk and uncertainty. Prereq: Stat 380, IE 205.

655/855 Nutrition Throughout the Life Cycle (3) Influence of normal physiological stress throughout life cycle: pre-conception, infancy, childhood, adolescence, adulthood, and aging. Prereq: 3 hours nutrition, 3 hours human development and family 6 hours natural science or permission of instructor. (F)

656/856 Parent-Child Education With Field Experiences (3) Review of literature relative to the role of parents in America and to programs in parenting. A study of the basic concepts in dynamics of group discussion, child development and family relationships pertinent to the class and field experiences. Lect. lab. arr. Same as Coop 599, 699, Human Dev. 270, 300 or equiv. or permission of instructor.

657/857 Occupational Safety Hygiene Engineering (3) An introduction to occupational hygiene engineering with emphasis on workplace conditions and their effect on employee health, heat, light, irritation, noise and vibration. Prereq: Stat 380, IE 415.

658/858M Industrial Quality Control (3) Autonolysis of quality in manufacturing: design and implementation of control systems using statistical applications. Prereq: Stat 380, IE 415.


662/862 Introduction to Operations Research 1 (3) An introduction to the application of linear functional programming to the solution of engineering problems. This includes applications of decision theory, game theory, linear programming, transportation and assignment models, network models, and branch and bound. Prereq: IE 205, IE 321, or Stat 380.


665/865 Inventory Systems Analysis 1 (3) The simulation of technologically based management systems and the development of computer techniques and simulation languages. Prereq: IE 433.


667/867 Laboratory Investigation (1-3) Investigation and written reports on specific problems in any area of industrial or management systems engineering. Prereq: Senior standing or permission.

669 Master's Thesis (1-10)

Mathematics and Computer Science

Computer Science

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

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

321/8223 Advanced Programming Techniques (3) (3) An introduction to the development and use of advanced programming techniques. Prereq: CS 223 and 224.


332/8332 Data Structures (3) List processing, linked lists, and trees, arrays, representations and storage of trees and graphs, sorting and searching. Prereq: CS 230 and 235.

345/8335 Communications Systems (3) Functions of line systems and communication systems within an information system. Prereq: CS 332. MATH/CS 231.

365/8655 Operations Analysis and Model-Building (3) Examination and construction of models and their use in decision-making, operations research, and simulation. Prereq: A course in linear algebra, competence in programming FOR-TRAN or PL/1. Probability and statistics desirable.

422/8223 Programming Languages (3) Definition of programming languages, Global properties of algorithmic languages including scope, declaration, storage allocation, grouping of statements, binding time. Subroutines, constants and tasks. Comparisons of several languages. Prereq: For 422, CS 220 and 225. For CS 231, CS 236.


470/870M Introduction to Theory of Compilers (3) Formal language and automata, interpreters and compilers. Compilation of simple expressions and statements. Syntax and semantic specification of a compiler, including compilation-time and run-time symbol tables, lexical analysis, syntax analysis, object code generation and error recovery. Prereq: CS 331 and 422. MATH/CS 450 recommended.

800J Statistical Methods I (3) Distributions, introduction to measures of central value and dispersion, normal distribution, method of maximum likelihood, inference, single population, and multiple populations. Two sample inference, analysis of variance. Statistical packages on the computer will be utilized in the course. Prereq: Math 131 or equivalent.

801J Statistical Methods II (3) Regression and correlation, dependence, dependence on the type statistics more, analysis of variance, questions of normality, introduction to nonparametric statistics. Statistical packages will be used as appropriate. Prereq: Statistics 800J or equivalent. Math 311/8223 or equivalent. Prereq: Math 131 or equivalent. Prereq: Math 196.

550/850J Selected Topics in Mathematics (1-4) This is a variable content course with selected topics in the mathematical sciences which may be of interest to the student. Such topics may be, such as mathematics education, psychology, and business. The course may be taken more than once for credit provided topics differ with a maximum credit of 9 hours. Mathematics majors may apply no more than 3 hours of math 250 toward the minimum major requirements. Mathematics majors need not apply to M.A. or M.S. in mathematics. Prereq: Permission of instructor.


464/844J Modern Geometry (3) Axiomatic systems, finite geometries, intervals, setting of Euclidean geometry, hyperbolic and other non-Euclidean geometries. Prereq: Math 196 or equivalent mathematical maturity.

370/870J Introduction to Modern Algebra (3) An introduction to abstract algebra including groups, rings, and fields. Examples and elementary proofs will be discussed. Concepts, discrete and continuous as possible. Prereq: Instructor permission.

411/811J Advanced Algebra (Each) An introduction to abstract algebra, congruence relations, fields, groups, fields, linear transformation, group theory, rings of Euclidean geometry, hyperbolic and other non-Euclidean geometries. Prereq: Math 196 or equivalent mathematical maturity.

422/8223 Mathematical Analysis I (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include limits, continuity, differentiability, integration, and a detailed study of the real line. Prereq: Math 197 and 201 and at least one 300-level math course.

523/8323 Mathematical Analysis II (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables, continuity, differentiability, integration, multiple integration, infinite series, power series, uniform convergence, improper integrals. Prereq: Math 423 or equivalent.

427/827M Introduction to Duality Variables (3) Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus, applications of analytic continuation, singularities and representations of analytic functions. Prereq: Math 423 or advanced calculus.


451/851M Theory of Numbers (3) Congruences, quadratic reciprocity, Diophantine equations, and sums of squares. Prereq: Math 312 or above.


460/860M Tensor Analysis (2) A course in vector analysis, study of basis and space tensors, applications of tensors, geometry and mechanics. Prereq: Math 311 or equivalent.

811T Topics in Finite Mathematics (3) Logic, the axiomatic method, properties of axiom systems, set theory, cardinal and ordinal numbers, introduction to the real number system, historical development of the foundations of mathematics, recent developments. Prereq: For 441, senior standing.

815/8515M Theory of Numbers (3) Congruences, quadratic reciprocity, Diophantine equations, and sums of squares. Prereq: Math 312 or above.

825/860J Calculus of Variations (3) An introductory course to classical variational problems, such as the brachistochrone problem and the problems ofitis in parametric form. Prereq: Math 423/424.

830V Applied Complex Variables (3) Applications of complex variables to potential theory, to the Fourier and Laplace transforms, and to other fields such as ordinary differential equations, number theory, etc. Prereq: Math 427.

860M Differential Geometry (3) Differential geometry of curves and surfaces, groups, differential geometry of Euclidean space. Prereq: Mathematical analysis or equivalent.

862V-863V Introductory Topology (Each) An introduction to topology, topological spaces, continuous maps and homeomorphisms, connectedness, compactness, separation axioms, and convergence. Prereq: Permission of instructor. 862V required for Math 854M. 863V to be offered in the spring of the even-numbered years.

899V Graduate Seminar (1-3) A graduate seminar in mathematics.

999V Independent Graduate Studies (3) Under this number a graduate student may pursue studies in an area that is not compatible to him in a formal course. The topics studies will be a graduate area in mathematics to be determined by the student in consultation with his instructor and his classification.

911 Advanced Topics in Algebra (Each)


923M Theory of Functions of Real Variables (Each) (3) The real number system, general topology, continuous, one-to-one, onto, and monotone functions, sequences, series, open and closed sets, compactness, uniform continuity, uniform convergence, uniform integrability, integral representation, differential forms, integration, abstract measure theory.
Music

854M Renaissance and Baroque Music Literature (3) A study of music from the Renaissance and Baroque periods. Written project. Prereq: 6 hrs. of undergraduate music history and permission.

861V Seminar-Workshop in Music Education (4-15) Seminars and workshops in music education for the graduate student and inservice teacher. Prereq: Permission.

301V Advanced Laboratory Conducting (3) Study of complicated conducting problems in band and orchestral literature and techniques for their solution. Prereq: Music 265 and 363 or equivalent.

Physics

301/301J Elements of Electronics (2) The background and development of electronic devices and circuits particularly as they are related to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved. Prereq: Calculus and Physics 112 or 212.

301/301JL Electronics Laboratory (1)

302/302J Optics (3) The nature of light energy as related to scientific and industrial applications. The wave and particle nature of light, geometrical and physical optics, quantum optics, and essential applications of light to modern science. Prereq: Calculus and Physics 112 or 212.

302/302JL Optics Laboratory (1)

315/315J Modern Developments in Physics (3) An introduction to modern developments in physics, the physics of microscopic particles. Topics include spectroscopy, electronic structure, nuclear structure, basic quantum concepts of atomic physics. Prereq: For 315, teachers who have not had an equivalent modern physics course within the past 10 or 15 years. The course elaborates on topics introduced in Physics 315. Prereq: Physics 112 or 212 and Physics 315 or equivalent. Prereq: Permission of instructor.

375/375J Electricity and Magnetism I (3) An advanced discussion of electrostatics and magnetism with laboratory experiments. Prereq: Calculus, Physics 325, or permission.

375L/375JL Laboratory for Electricity and Magnetism I (1) Laboratory work as an introduction to the topics in Electricity and Magnetism I. Prereq: Calculus, Physics 325, or permission.

376/376J Electricity and Magnetism II (3) A course in electrodynamics. Topics include maxwell's equations and their solutions for the propagation of electromagnetic waves. Prereq: Calculus, Physics 325, or permission.

423-424/823-824 Laboratory for Electricity and Magnetism II (1) Laboratory work as an introduction to the topics in Electricity and Magnetism II. Prereq: Calculus, Physics 325, or permission.

375L/375JL Laboratory for Electricity and Magnetism II (1) Laboratory work as an introduction to the topics in Electricity and Magnetism II. Prereq: Calculus, Physics 325, or permission.


418/818M Constitutional Law (3) The basis of the legal system, with emphasis on judicial procedures and the Supreme Court. Prereq: For 418. Political Science 110 and junior standing.


431/431M Political Theory I (3) An introduction to the major political theories in modern society. Prereq: For 431. Political Science 110 and junior standing.

432/432M Political Theory II (3) An introduction to the major political theories in modern society. Prereq: For 432. Political Science 110 and junior standing.


495-496/895-896M Problems in Physics (Each 1-3) Individual laboratory and/or library study in the field of physics. Prereq: General physics and permission of instructor. Prereq: For 496. Prereq: Permission of instructor.

Political Science

401/401M The Presidency (3) The role of the president in the American political system, his power and responsibilities, his ability to exercise power, and his role in foreign policy. Prereq: For 401. Political Science 110 and junior standing.


408/408M Comparative State Politics (3) A comparative analysis of the structure and functions of state governments. Prereq: For 408. Political Science 110 and junior standing.

495-496/895-896M Problems in Physics (Each 1-3) Individual laboratory and/or library study in the field of physics. Prereq: General physics and permission of instructor. Prereq: For 496. Prereq: Permission of instructor.
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458/858M Government and Politics of Great Britain (3) A comprehensive study of British politics and government. Emphasis will be placed on the formal institutions and informal customs and practices of the British political system. Prereq: For 458, junior standing.

458/858M Government and Politics of the U.S.S.R. (3) An analysis of the structure and function of the U.S.S.R. Special attention will be devoted to the role of the Communist Party and the dynamics of the society and to the ideological and social factors which influence political processes and institutions. Prereq: Six hours of political theory or permission of the instructor.

458/858M Seminar in Comparative Politics (3) An examination of the methods and concepts of comparative politics. Prereq: For 458, junior standing or permission of the instructor.

464/864M Governments and Politics of Non-Communist Asia (3) Political, economic, and social background of governments, political systems and governments of selected non-Communist nations in Asia. Prereq: For 464, junior standing.

464/864M Latin American Politics (3) The problems and political processes of the states of Latin America, including the structure and operations of their governments and dynamics of their political systems. Prereq: For 464, junior standing.

467/867M Topics in Political Science (3) A project-oriented course based upon analysis of the literature of political science and/or primary source materials. Prereq: For 492, junior standing or permission of the instructor.

808V Seminar in the Research Methods of Political Science (3) A critical investigation of the methods of data collection and analysis for political science and political behavior research. Prereq: Permission of the graduate advisor. (Also listed under Interdisciplinary Study 463-466).

809V Seminar in American Government and Politics. (3) A thorough analysis of selected aspects of American government and politics with emphasis on individual research by the student. Prereq: Permission of graduate advisor.

815V Seminar in Public Law (3) Practical methods of research, and emphasis on specifically selected problems in the areas of administrative, constitutional, and constitutional law. Problems studied will correspond to those encountered by government employees, officials, and attorneys at the national, state, and local level. Emphasis will be varied from semester to semester to correspond with the background and objectives of the students enrolled. Prereq: Three semesters of public law or permission of graduate advisor.

820V Seminar in International Politics (3) An examination of the theoretical frameworks of the state system. The study of international relations, with application to particular problems in international relations. Prereq: Permission of the instructor.

830V Seminar in Political Theory (3) Analysis of selected topics in normative, empirical and ideological political theory and their implications for practitioners of politics. Prereq: Six hours of political science courses or by application to contemporary political systems. Prereq: Permission of the instructor.

835V Seminar in Comparative Politics (3) An introduction to the study and history of the political institutions of the field of comparative politics, with special emphasis on British and French systems. Prereq: 458, junior standing or permission of the instructor.

445/845M Environmental Psychology (3) A study of behavior as it is influenced by environmental factors. Prereq: For 445, junior standing or permission of the instructor.

447/847M Jungian Psychology (3) This course emphasizes the relationship between psychological development and personality fulfillment, and consistency approaches to personality. Prereq: Psychology 343 and senior standing or permission.

448/848M Eastern Psychology (3) Theory and techniques of eastern psychology with emphasis on both distinct cultural and theoretical concerns with higher cognitive processes including consciousness, perception, problem solving, creativity, memory, and symbolic behavior. Prereq: For 848, junior standing and permission of the instructor.

455/855M Psychological Statistics (3) A discussion of the literature concerned with how such psychological variables as intelligence, personality, and development relate to the linguistic variables of sentence structure, syntax, and speech sounds. Prereq: For 455, senior or graduate standing, or permission of the instructor. (Same as Anthropology 452 and Computer Science 452).

458/858M Environmental Psychology (3) A study of behavior as it is influenced by environmental factors. Prereq: Psychology 343 and senior standing or permission of the instructor.

463/863M Techniques of Programmed Instruction (3) An introduction to methods and techniques of programmed instruction in the teaching of political science and other fields. Prereq: Permission of instructor.
erel, up to a maximum total of nine credit hours. Prereq: Completion of the proseminar sequence and permission of the instructor.

960 Alcoholism and the Family (3) A review of the theoretical and research literature on alcoholism and its implications for the family context. The specific focus of this course is those areas of alcoholism which are related to the family and family development. Such issues as genetic aspects of alcoholism, effects of progency, socialization practices in an alcoholic family, and childhood and adolescent alcohol are covered. Prereq: Permission of the instructor.

961 Seminar in Industrial/Organizational Psychology (3) Intensive study of current problems and issues in the industrial psychology literature with particular emphasis on integration of research findings from Psychology 213 or equivalent.

963 Personnel Selection and Assessment (3) A course designed to familiarize the student with the procedures involved in assessing and selecting people for industrial positions. Prereq: Psychology 213 or equivalent. Psychology 324V and permission of instructor.

979 Topical Seminar in Psychology (1-6) A discussion of a specified advanced topic in psychology which will be announced each time the course is offered. The course may be repeated each time a different topic is covered, for a maximum total of 9 credit hours.

979 Topical Seminar in Psychology (1-3) A discussion of a specified advanced topic which will be announced each time the course is offered. Prereq: Permission of the instructor.

995 Practicum in Organizational Behavior (1-6) Practice in the management of a business designed to bridge the gap between the theoretical and practical aspects of business management, with emphasis on the student's previous work experience. Prereq: Consent of instructor. Psychology 324V and permission of instructor.

996 Research Other Than Thesis (1-12) Independent research study under the supervision of a faculty member. May be repeated up to a total of 12 credit hours. Prereq: Permission of the department and admission to doctoral program.

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

Public Administration


848V Seminar in Public Financial Administration (3) Financial organization, intergovernmental relations, and the administrative aspects of governmental agencies. Prereq: Permission of graduate advisor.

860V Seminar in Administrative Law (3) A review of the legal aspects of the governmental process with special emphasis upon the legal implications of local government. Prereq: Permission of graduate advisor.

890V Seminar in School Administration (3) A review of the administrative practices of elementary and secondary schools, with special emphasis upon the complexities of the school system. Prereq: Permission of graduate advisor.

918 Urban Seminar in Metropolitan Planning and Development (1-3) An overview of the present status of metropolitan areas from a planning, sociological, psychological, and environmental point of view. Prereq: Permission of graduate advisor.
120V Foundations in Business Education (3) Designed to give major emphasis to the standing of business education; to identify and define basic human, non-verbal communication, past, present, and future role in the total education pattern of our country in today's world.

120V Seminar in Mathematics (3) A graduate seminar in K-12 mathematics education emphasizing recent curricular development, curriculum planning and evaluation, research, mathematics supervision, and contemporary issues in mathematics education. Prerequisite: Graduate standing and permission of instructor.

120V Improvement of Instruction of Secondary School Science (3) This course is designed for graduate students who will become better informed about the recently developed programs for secondary science; the methods, procedures, and programs in which are characteristic of these programs.

120V Improvement of Instruction of Science, Harvard Project Physics (3) A graduate course in the development of science content, method, materials, and philosophical background of Harvard project physics.

120V Science Education Seminar (3) A graduate seminar in K-12 science education emphasizing research, newly developed science curricula, curriculum planning, science supervision and treatment of one or more localized science problems.

120V Trends and Teaching Strategies in Science Education (3) This course is designed for the graduate student who desires to gain a knowledge of the contributions of the biological, behavioral and social sciences to under- standing of science and their integration with social structure. Prerequisite: Admission to graduate program in social work and prior basic courses or their equivalent in political science and economics or permission of the instructor.

120R Research Methods in Social Work (2) Scientific inquiry, the general types and methods of research in social work, and the collection, analysis, and interpretation of social welfare data will be studied. The more commonly used statistical techniques will be reviewed. Research in social work will be assessed and utilization in social work will be explored. Prerequisite: WS 808 or permission of instructor.

120S Social Work Practice I (Generic) (3) This course is designed to serve as an introduction to the common core of concepts, skills, tasks and activities which are essential to the practice of social work and which serve as a foundation for further professional growth. Prerequisite: Admission to CSW or equivalent, SW 820 or SW 850/852.

120S Social Work Practice II (Generic) (3) An introductory course for graduate social work students focusing on basic theory and principles of social work practice with individuals, families, and small groups. Prerequisite: SW 810 or by permission of instructor.

120S Social Work Practice III (Macro) (3) This course is designed for students interested in micro, macro, and administrative perspectives which survey the basic theories and principles of social work practice with organizations, institutions, and communities, and in evaluates social actions, social planning, community development, community organization, and community organization. Prerequisite: SW 810 or by permission of instructor.

120S Social Work Practice IV (Therapy) (3) This course will provide supervised, individualized learning experiences in selected social welfare agencies, introducing a variety of social work practice roles...
852 Social Work Administration (3) A study of the role of the social work administrator in the creation and administration of social service agencies and community programs. Prereq: Graduate standing and admission to the Graduate School of Social Work. Not open to freshmen.

854 Social Welfare Planning (3) An advanced course in social planning, including administration and selected social services, comprehensive planning for social welfare programs, and planning for social change. Prereq: graduate standing or permission of instructor.

856 Supervision in Social Work (3) To provide the graduate student with knowledge of theories and techniques used in planning, organizing, and evaluating social services agencies. Prereq: MSW, SW 805, or permission of instructor.

858 Advanced Policy Analysis and Implementation (3) An advanced course in policy analysis techniques, policy development and implementation. Prereq: SW 805 or permission of instructor.

Social Problem/Conditions Courses

860 Social Work in Mental Health (3) This course is an elective for the advanced student who is seeking substantial specialized knowledge in the social work practice in mental health. Prereq: Students in MSW program or permission of instructor.

862 Social Work in Child Welfare (3) The course is an introduction to the field of child welfare and the roles of the social worker in the child-welfare system. Prereq: Graduate standing or permission of instructor.

868 Social Work in the Juvenile Justice System (3) To provide the graduate social work student understanding and knowledge of the practice of social work within the juvenile justice system. Prereq: Graduate standing or permission of instructor.

780 Alcohol Abuse: Comprehensive Treatment Program (3) An examination of the nature and processes related to alcoholism which are common in a social work setting. Special emphasis is given to the utilization of the rehabilitative, referral, evaluation, and treatment alternatives and resources. Prereq: Graduate standing.

781 Alcohol Abuse: Comprehensive Community Programs (3) An examination of the elements of community treatment systems for alcohol-related problems. Prereq: Graduate Standing.

480/880M Social Work and the Law (3) An examination of some of the legal aspects of selected welfare service policy issues such as a bond to the individual, alcoholism and drinking addictions, Credit and Debtor Rights, Handbook of Alcoholics Anonymous. Housing Laws, Right to treatment. States of the Convicted Individual. Mental Health Commitment Procedures. Prereq: SW 311 or equivalent at the Graduate level, SW 805 or permission of the instructor.

888 Topical Seminar in Social Work (2-4) Advanced topics and experiences in social work theory may be taken under the prerequisite supervision of one graduate standing. Prereq: admission to the Graduate School of Social Work. Such courses are offered as the situation warrants. The topics selected will be consistent with the requirements of the student's program and, unless noted, may be repeated for credit. Prereq: For 421, Graduate standing and permission of instructor.

852/S253M Psychopathology (3) A discussion of the literature and current ideas about mental health and illness abnormalities. Prereq: For 422, Antrophy 105 or permission of the instructor.

852/S528M Sociologic and the Behavioral Sciences (3) A study of various methods and techniques used in the behavioral sciences with specific emphasis on social methodology and taxonomic concepts. Prereq: For 422, Antrophy 105 or permission of the instructor.

421/821M Cultural Anthropology (3) Family, art, science, experience, production, and communication are approached as parts of an integrated whole, a way of life of preliterate human society. Illustrations from a number of simple societies, sociological theories, methods of study. Prereq: For 421, Antrophy 105 or permission of the instructor.

422/822M North American Archeology (3) American Indian culture history in North America, with emphasis on the peopling of the new world, origin and development of new world agriculture, development of middle American civilizations and their impact on core American institutions and social participation. Examines practice-oriented implications. Prereq: Permission of instructor.

421/821M Urban Geography (3) A geography of the city and its human environment in the United States, including regional and functional aspects, population, land use, transportation, and laws and regulations. Prereq: For 421, junior standing and permission of instructor. (Same as Geo 421.)

423/831M Sociology of Deviant Behavior (3) A theoretical analysis of the relationship of group behavior and subculture to behavior and mental health. Prereq: Graduate standing. (Same as Sociology 101 and 410.)

414/814M Urban Sociology (3) Examines urban structure and development, an examination of the diversity of metropolitan communities, urban structure and the environment of urban growth, urban neighborhoods, community power and urban policy and planning. Prereq: Permission of instructor.

415/815M American Family Problems (3) A theoretical treatment of the family as a social institution outlining the essential functions provided for its members and the society. (An analysis of family problems in a variety of American families: Parent-youth tensions, marriage and measurement of behavior in the context of social structure, family status, habits, strengths, family roles and patterns. Prereq: For 401, 9 hours of sociology, including Sociology 101 or 403, or permission of instructor. (Same as Criminal Justice 413/813.)

416/816M The Craft of Sociology (3) Sociology major seminar integrating prior learning and covering contemporary social theoretical, research methods, theory-building, practical applications, moral implications, various views on professional ethics and roles of writing skills. Graduate students will be expected to write their term papers as if they were submitting the papers to a professional journal. Prereq: Permission of instructor.

453/853M Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding cross-cultural and intercultural communication, the role and effect of cultural and subcultural misinterpretations, with the purpose of being knowledgeable about the social norms which disturb communication in cross-cultural situations. Prereq: For 453, junior standing and permission of instructor. (Same as Comm. 453.)

462/862M Sociology of Formal Organizations (3) Examines organizational theory and research. Analyzes organizational problems such as goals and ends, groups and organizations, leadership, decision making, and organizational change; and organizations and their environments. Comparative analysis of many types of organizations such as business, schools, prisons, and hospitals with special

537/837M Introduction to Industrial Sociology (3) This course is designed to acquaint the student with the nature and significance of industrial organizations and their function in society. Prereq: Permission of instructor.

484/884M Human Behavior in Social Environments (3) A study of the development and function of human behavior in the social setting. Prereq: For 484, 12 hours of sociology, including Sociology 101 or 403, or permission of instructor. (Same as Criminal Justice 484.)

485/885M Social Groups (3) A study of social structure and function, and the interaction systems of groups and organizations. Prereq: For 485, 12 hours of sociology, including Sociology 101 or 403, or permission of instructor. (Same as Criminal Justice 485.)

486/886M Social Institutions (3) A study of the origin, development, and operation of major social institutions, their impact on core American institutions and social participation. Examines practice-oriented implications. Prereq: Permission of instructor.
tention given to human-service organizations. Prereq: Permission of instructor.

471/871M Development of Sociological Theory (3) An intellectual history of sociology as an academic discipline focusing outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative needs drawn from the established works of recent decades although background readings are selected to their ancient and medieval antecedents where applicable. Prereq: For 471, Sociology 101 or 6 hours of sociology. For 871, permission of the instructor.

472/872M Contemporary Sociological Theory (3) A critical analysis of sociologically significant theories. Theories are selected from major theoretical traditions, sociological research and theory with shorter attention given to medieval antecedents where applicable. Prereq: For 472, Sociology 410 or 12 hours of sociology. For 872, permission of the instructor.

475/875M Social Change (3) A discussion of the theories and the basic models of social change illustrated by use of examples from contemporary and historical data. Emphasis is placed upon understanding causes and effects of social processes current in American society and pertinence to the individual to theory. Prereq: For 475, Sociology 101 or 60, and 6 hours of sociology or history. For 875, permission of the instructor.

485/885M Sociology of Religion (3) Analysis of selected substantive problems of sociology, with a special emphasis on the development of sociology as a social and cultural phenomenon. The study theme will vary from time to time in keeping with the special interests of the instructor. Prereq: Graduate standing and permission of instructor.

486V Seminar in Social Organization (3-4) An advanced research project in the supervision of an instructor particularly qualified in the area of concern. Students participate in the full process of research including the selection of (or construction of) Test instrument(s) and the analysis of data. Prereq: Methods of statistical analysis and permission of instructor. Prereq: Graduate standing and permission of instructor.

485V Seminar in The Sociology of Religion (3-6) A seminar dealing with religion as a social and cultural phenomenon. The study theme will vary from time to time in keeping with the special interests of the instructor. Prereq: Graduate standing and permission of instructor.

480V Seminar in Social Organization (3-4) An advanced research project in the supervision of an instructor particularly qualified in the area of concern. Students participate in the full process of research including the selection of (or construction of) Test instrument(s) and the analysis of data. Prereq: Methods of statistical analysis and permission of instructor. Prereq: Graduate standing and permission of instructor.

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460/860M Introduction to Mentally Retarded Children (3) Concerned with the current definitions and classifications of MR; the causes of MR; the eras and contributor's main thoughts and the implications of the retarded; the educational needs, services and treatment for the retarded; the relationship of society to the retarded; the methods, techniques and devices used to teach field and trends in it; the administration of programs for the retarded. Prereq: For 460: junior standing; for 860M: 2.5 GPA (F.S.Su).

463/863M Curriculum Planning for the Disabled (3) The mentally retarded child as an educable or trainable individual; an investigation of the various programs in curriculum development for the mentally subnormal child; preschool through specialized education; consideration of needs and goals and determination of content. Prereq: For 463, junior standing; Special Education 460, teacher education 2.5 GPA. For 863M, Special Education 460 and 2.5 GPA. (F.S.Su.)

464/864M Methods and Materials for Teaching Mentally Retarded Children (3) The retarded child as a variable of various educational processes designed for his learning needs; methods of instruction; practical experience in the design and implementation of curriculum units, presentation of educational programs for the trainable and educable. Prereq: For 464, junior standing; teacher education 2.5 GPA. For 864M, Special Education 460 and 2.5 GPA. (F.S.Su.)

475V Developmental Disabilities (3) This course is designed to cover the various problems involved in language acquisition among exceptional children: the various methods and techniques of teaching language to exceptional children. Prereq: For 475, Special Education 306 or Special Education 368 and 2.5 GPA. (F.S.Su.)


481/881M Classroom Techniques for Behavior Change (3) Designed to introduce the student to a variety of techniques for managing behavior in the classroom. Three major areas will be covered: Specific techniques of behavior change, group work and management skills. Prereq: For 481, Junior standing.

850 Special Projects (1-3) A series of intensive courses especially designed for teachers in-service schedules. Prereq: For 850: 2.5 GPA (F.S.Su).

865V Practicum in Speech Pathology (3) This course provides for study and experience in speech therapy programming utilizing behavioral principles and techniques in the Bobath-Rahnian-behaviorist principles. It includes a period of three hundred hours (including over sixty hours in a speech pathology clinic) in a speech pathology clinic and presentation of the work accomplished. Prereq: Junior standing or permission of the instructor. (F.S)

867V Clinical Practicum in Speech Pathology (3) Course is designed to meet the needs of those who desire a basic overview of skills and techniques needed in the education and training of the hearing impaired and speech handicapped. Since the problems of educating the hearing impaired and speech handicapped do not limit public school settings, all efforts will be made to involve the community. The course is open to students desiring graduate credit, for those desiring clinical experience, and for students desiring to work for a degree. Prereq: SPED 460/600.

869V Texas Speech Science II: Neurophysiology of Speech and Language (3) Introduction to human neuroanatomy and neurophysiology. Emphasis is placed on gaining familiarity with the brain mechanisms and sensory and motor function. Prereq: 868V. (F.S.Su.)

860V Diagnostic and Remedial Instruction in Reading (3) A course for advanced students in reading which will provide the student with the necessary background and understanding of concepts in reading; the role of the reading teacher, the nature and characteristics of the reading programs for the trainable and educable. Prereq: For 464, junior standing; teacher education 2.5 GPA. For 860V Special Education 306 or Special Education 368 and 2.5 GPA. (F.S.Su.)

861V Measurement and Evaluation of Reading (3) A course for advanced students in reading which will provide the student with the necessary background and understanding of concepts in reading; the role of the reading teacher, the nature and characteristics of the reading programs for the trainable and educable. Prereq: For 464, junior standing; teacher education 2.5 GPA. (F.S.Su.)

862V Communicating in Language Disorders (3) The course is designed to cover the various problems involved in language acquisition among exceptional children: the various methods and techniques of teaching language to exceptional children. Prereq: For 475, Special Education 306 or Special Education 368 and 2.5 GPA. (F.S.Su.)

863V Basic Clinical Practicum in Speech Pathology (3) The course in practical courses in program follows the course 451 which is the student's first course in speech pathology. It is designed to give graduate students who need more than one semester of closely supervised practicum an opportunity to get this experience before being placed in a setting away from the university. (F.S.Su) Prereq: Permission of instructor.

867V Clinical Practicum in Speech Pathology (3) This course is designed to meet the needs of those who desire a basic overview of skills and techniques needed in the education and training of the hearing impaired and speech handicapped. Since the problems of educating the hearing impaired and speech handicapped do not limit public school settings, all efforts will be made to involve the community. The course is open to students desiring graduate credit, for those desiring clinical experience, and for students desiring to work for a degree. Prereq: SPED 460/600.

869V Texas Speech Science II: Neurophysiology of Speech and Language (3) Introduction to human neuroanatomy and neurophysiology. Emphasis is placed on gaining familiarity with the brain mechanisms and sensory and motor function. Prereq: 868V. (F.S.Su.)
877 Diagnostic and Remediation Techniques in Early Childhood Education for The Disabled (3) This course, teaching reading from Kindergarten through the sixth grades. There are no prerequisites except graduate standing.

917 Seminar in Organization and Administration of Reading (3) An advanced course in reading for elementary or secondary grades. It is open to the administration, organization, evaluation, and methods and materials for the teaching of reading in each of the content subjects at the junior and senior high levels.

971 Seminar in Research in Reading (3) A course for advanced graduate and postgraduate students relating to in-depth studies of significant research in reading having appropriate application for instructional procedures which may be undertaken. Each student will be expected to conduct research and report the results of the activity to other class members.

Communication

Journalism

420/820M Journalism (3) An introduction to the evolving role of the electronic media in democratic society. Prerequisites: Political Science 235 and/ or permission of the instructor.

437/837M Issues in Broadcasting (3) An analysis of the commercial, political, and social aspects of mass media, the impact of media on government, and the public, with emphasis on themes of criticism, normative standards, and solutions to perceived media problems.

441/841M Communications Law (3) A discussion of the laws, legal issues, court decisions and government regulations which have special application to the mass media, such as libel, privacy, copyright, and the federal communications commission. Prerequisite: For 441, junior standing.

445/850M Mass Communications and Public Opinion (3) A study of the nature and formation of the public opinion and its significance in political, social, and economic areas.

807V Diagnostic and Remediation Techniques in Early Childhood Education for The Disabled (3) This course, teaching reading from Kindergarten through the sixth grades. There are no prerequisites except graduate standing.

917 Seminar in Organization and Administration of Reading (3) An advanced course in reading for elementary or secondary grades. It is open to the administration, organization, evaluation, and methods and materials for the teaching of reading in each of the content subjects at the junior and senior high levels.

971 Seminar in Research in Reading (3) A course for advanced graduate and postgraduate students relating to in-depth studies of significant research in reading having appropriate application for instructional procedures which may be undertaken. Each student will be expected to conduct research and report the results of the activity to other class members.

Communication

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971 Seminar in Research in Reading (3) A course for advanced graduate and postgraduate students relating to in-depth studies of significant research in reading having appropriate application for instructional procedures which may be undertaken. Each student will be expected to conduct research and report the results of the activity to other class members.
awareness, self-actualization and empathic orientation — in various changing environments — by means of linguistic and diagrammatic devices in both intrapersonal and interpersonal communication.

**451/851M Persuasion** (3) Basic principles and psychological processes underlying persuasive communication; a review of various source, message, channel, and receiver variables and their influence on communication effectiveness. Prereq: Speech 101 and 3 hours of psychology or sociology, or permission of the instructor.

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

**453/853M Seminar in Cross-Cultural Communication** (3) This seminar will be directed towards understanding the components of cultural and subcultural misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. Prereq: Junior standing or permission of instructor. (Same as Sociology 453 and 853m).

**462/862M Directing Forensics** (3) To provide students planning to teach speech in high school or college with a philosophy and detailed knowledge of how to direct a forensic program. Prereq: Junior standing and Speech 112, or permission.

**861V Introduction to Research in Speech** (1) (3) Basic components, functions, and spirit of research; methods in the arts and sciences of oral communication; preparation of a thesis proposal.

**881V Seminar: Modern Public Address** (3) Studies in figures, movements and institutions prominent in modern public address. May be repeated. Prereq: Graduate standing or permission.

**885V College Debate Workshop** (5) (3) A comprehensive analysis of the current intercollegiate debate proposition. Also stresses methods of coaching debate and debate tournament management at the college level. Students taking this course may not receive credit for Speech 862m, directing forensics, toward a degree at UNO. Prereq: Graduate standing and permission.

**880V Seminar in Broadcasting** (3) Substantive study into specialized areas and modes of broadcasting. Content will vary according to the individual semester being offered. Course may be repeated. Prereq: Graduate standing and permission.

**850V Seminar in Communication Theory** (3) Analysis of current approaches to the study of communication, with emphasis on theoretical models, and their application to various professional interests. Prereq: (1) research methods, and (2) a working knowledge of basic statistics. In doubtful cases, instructor's permission is required.


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

**940 Seminar in Small Group Communication** (3) Research and theory in the process of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Brilliart) Prereq: Speech 801v or equivalent, or basic statistics, or permission of instructor. (Same as Sociology 840v and Psychology 940).

**955 Seminar in Applications of Non-Verbal Communication Theory** (3) Theories and research on the development, facilitation and barriers of human non-verbal communications. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. Prereq: Course in research methods or permission of instructor. (Same as Secondary Education 936 and Psychology 936).

**School of Engineering Technology**

**Industrial Technology**

**421/821M Contemporary Trends in Industrial Education For The World of Construction** (3) Introduction to a new program development in industrial education, with major emphasis placed on the world of construction curriculum. Analysis of basic construction operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory. Prereq: For 421, junior. For 821m, graduate standing.

**422/822M Contemporary Trends in Industrial Education For The World of Manufacturing** (3) Introduction to a new program development in industrial education, with major emphasis placed upon the world of manufacturing curriculum. Analysis of basic manufacturing operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory. Prereq: For 421, junior.

**Urban Studies**

**891V The Metropolis As A Public Economy** (3) The integration of politics and economics in the metropolitan system as they affect metropolitan problems such as poverty, transportation, housing, crime, education, and the environment will be analyzed.

**892V Race, Ethnicity, and American Urban Culture** (3) This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.
GRADUATE FACULTY

ROBERT L. ACKERMAN
Elementary and Early Education
Ph.D., University of Nebraska-Lincoln, 1966; Professor

JOSEPH B. ACKERMAN
Elementary and Early Education
Ph.D., University of Nebraska-Lincoln, 1972; Associate Professor

MAUDE B. ACKERSON
Secondary/Post-Secondary Education
Ph.D., University of Missouri-Columbia, 1965; Professor

FREDERICK W. ADRIAN
History
Ph.D., Ohio State University, 1942; Professor

ROBERT C. AKERS
Special Education
Ph.D., University of Missouri-Columbia, 1969; Associate Professor

LARRY ALBERTSON
Health, Physical Education & Recreation
Ph.D., University of Georgia, 1973; Associate Professor

DAVID M. AMBROSE
Marketing
D.B.A., George Washington University, 1971; Associate Professor

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Philosophy and Religion
Ph.D., University of Wisconsin-Madison, 1953; Professor

SUNNY ANDREWS
Social Work
Ph.D., Johns Hopkins University, 1972; Assistant Professor

AARON ARMFIELD
Social Work
Ph.D., University of Northern Colorado, 1964; Professor

WALTER M. BACON
Political Science
Ph.D., University of Denver, 1974; Assistant Professor

BRUCE P. BAKER
English
Ph.D., Texas Christian University, 1968; Professor

GEORGE W. BARGER
Sociology
Ph.D., University of Missouri-Columbia, 1964; Professor

NICHOLAS BARISI
Geography and Geology
Ph.D., Clark University, 1967; Professor

GORDON M. BECKER (GF)
Psychology
Ph.D., University of Pittsburgh, 1955; Professor

RONALD S. BEER
Educational Administration
Ph.D., Kent State University, 1969; Associate Professor

BILL D. BELL (GF)
Gerontology
Ph.D., University of Missouri, 1973; Associate Professor

JOSEPH V. BENAC
Civil Engineering
Ph.D., University of Illinois-Urbana, 1967; Professor

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Banking and Finance
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KRIS E. BERG
Health, Physical Education & Recreation
Ph.D., University of Missouri-Columbia, 1973; Associate Professor

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Elementary and Early Education
Ph.D., Northwestern University, 1972; Associate Professor

JOSEPH BERKINNETTI
Counseling and Guidance
Ph.D., University of New Mexico, 1972; Associate Professor

JEROME BIRDMAN
Dramatic Arts
Ph.D., University of Illinois-Urbana, 1970; Professor

JOHN V. BLACKWELL
Art
Ph.D., University of Iowa, 1957; Professor

RICHARD H. BLAKE
Counseling and Guidance
Ph.D., University of Missouri-Columbia, 1966; Professor

WILLIAM BLIZEK (GF)
Philosophy and Religion
Ph.D., University of Missouri-Columbia, 1970; Associate Professor

JUDITH E. BOSS
English
Ph.D., Texas Christian University, 1971; Associate Professor

THOMAS BRAGG
History
Ph.D., Kansas State University, 1974; Assistant Professor

M. JEAN BRESSLER
Philosophy
Ph.D., University of Missouri-Columbia, 1973; Associate Professor

NOAM BRILL
Sociology
Ph.D., Columbia University, 1938; Associate Professor

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Psychology
Ph.D., University of Colorado-Boulder, 1956; Associate Professor

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Psychology
Ph.D., University of Washington, 1969; Associate Professor

WILLIAM M. BROWN
Marketing
Ph.D., University of Pittsburgh, 1957; Professor

BARBARA E. BUCHALTER
Mathematics
Ph.D., University of Arizona, 1968; Professor

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