Graduate Academic Catalog (1977-1978)

University of Nebraska at Omaha

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The University of Nebraska at Omaha

GRADUATE CATALOG
1977-1978
## THE GRADUATE CATALOG

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### COLLEGES

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<tr>
<th>College</th>
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<tr>
<td>The College of Arts and Sciences</td>
<td>John M. Newton, Ph.D.</td>
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<td>The College of Engineering and Technology</td>
<td>Irving Engelson, Ph.D.</td>
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<td>The College of Education</td>
<td>William V. Muse, Ph.D.</td>
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<tr>
<td>The College of Business Administration</td>
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<tr>
<td>The College of Continuing Studies</td>
<td>John M. Christ, Ph.D.</td>
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### ADMINISTRATION

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<tr>
<th>Position</th>
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<tr>
<td>President</td>
<td>Ronald W. Roskens, Ph.D.</td>
</tr>
<tr>
<td>Vice Chancellor</td>
<td>Ronald S. Beer, Ph.D.</td>
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<tr>
<td>Vice Chancellor for Academic Affairs</td>
<td>Elaine Hess, Ph.D.</td>
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<td>Vice Chancellor for Academic Affairs</td>
<td>Gary L. Carreco, M.B.A.</td>
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<td>Acting Vice Chancellor for Academic Affairs</td>
<td>Robert L. Prokop, M.D.</td>
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<tr>
<td>Director, Institutional Research</td>
<td>Charles R. Hein, A.B.</td>
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<tr>
<td>Director, University Relations</td>
<td>Kermit Wagner, M.D.</td>
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<tr>
<td>Director, University Relations</td>
<td>J. C. Leary, M.S.</td>
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<tr>
<td>Assistant to the Chancellor for Planning</td>
<td>Rex Engelbrecht, Ed.D.</td>
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<td>Dean, The College of Arts and Sciences</td>
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<td>John M. Christ, Ph.D.</td>
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### ACADEMIC CALENDAR

#### First Semester 1977-78

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>July 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for First Semester 1977-78</td>
</tr>
<tr>
<td>July 15-17</td>
<td>Orientation</td>
</tr>
<tr>
<td>Aug. 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1977-78</td>
</tr>
<tr>
<td>Aug. 1</td>
<td>Beginning of academic year.</td>
</tr>
<tr>
<td>Aug. 22</td>
<td>Registration (Field House)</td>
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<tr>
<td>Aug. 22-26</td>
<td>First semester begins at 0700 both day and evening classes.</td>
</tr>
<tr>
<td>Aug. 29</td>
<td>Change of class schedules.</td>
</tr>
<tr>
<td>Aug. 23-Sept. 2</td>
<td>Last day up to 1600 for change of class schedules. (Adding a class to a schedule, changing a class from &quot;audit&quot; to a grade enrollment, or changing a CR/NC class registration to a grade registration.)</td>
</tr>
<tr>
<td>Sept. 5</td>
<td>Labor Day, University closed.</td>
</tr>
<tr>
<td>Oct. 1</td>
<td>Last day for filing applications for degrees to be conferred in December</td>
</tr>
<tr>
<td>Oct. 21</td>
<td>Due: Mid-term (6th week) report from faculty of grades under C for all undergraduates.</td>
</tr>
<tr>
<td>Nov. 1</td>
<td>Last day a class may be dropped in order to receive a &quot;W&quot;. Last day a class may be changed to &quot;audit&quot; or changed from a grade registration to CR/NC.</td>
</tr>
<tr>
<td>Nov. 10</td>
<td>Thanksgiving Vacation, no classes.</td>
</tr>
<tr>
<td>Nov. 24-25</td>
<td>Holiday, University closed.</td>
</tr>
<tr>
<td>Nov. 26</td>
<td>Status report for all prospective graduating students due in Registrar's Office by 1200.</td>
</tr>
<tr>
<td>Dec. 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for Second Semester 1977-78.</td>
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<tr>
<td>Dec. 16-22</td>
<td>Last day of classes.</td>
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<td>Dec. 22</td>
<td>Finals</td>
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<tr>
<td>Dec. 26-27</td>
<td>Christmas Holiday, University closed.</td>
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<tr>
<td>Dec. 28</td>
<td>Grades due in Registrar's Office at 1200.</td>
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<tr>
<td>Dec. 26-Jan. 14</td>
<td>Inter-session Special course offerings</td>
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<td>Jan. 2</td>
<td>Holiday, University closed.</td>
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<td>Jan. 3</td>
<td>Last day for submitting credentials for admission in undergraduate college for the Second Semester 1977-78.</td>
</tr>
<tr>
<td>Jan. 3-4</td>
<td>Orientation</td>
</tr>
<tr>
<td>Jan. 11-13</td>
<td>Registration (Field House)</td>
</tr>
<tr>
<td>Jan. 16</td>
<td>Second Semester begins at 0700 both day and evening classes.</td>
</tr>
<tr>
<td>Jan. 16-20</td>
<td>Change of class schedules.</td>
</tr>
<tr>
<td>Jan. 20</td>
<td>Last day up to 1600 for change of class schedules. (Adding a class to a schedule, changing a class from &quot;audit&quot; to a grade enrollment, or changing a CR/NC class registration to a grade registration.)</td>
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<tr>
<td>March 10</td>
<td>Due: Mid-term (5th week) report of grades under C for all undergraduates.</td>
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<tr>
<td>March 18-26</td>
<td>Last day for filing applications for degrees to be conferred in May.</td>
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<tr>
<td>March 23-24</td>
<td>Spring vacation begins at 1200.</td>
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<td>March 27</td>
<td>Holiday, University closed.</td>
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<td>April 7</td>
<td>Last day for filing application for degrees to be conferred in May.</td>
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<td>April 10-15</td>
<td>Grades due in Registrar's Office by 1200.</td>
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<td>May 5</td>
<td>Last day of classes.</td>
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<tr>
<td>May 6-12</td>
<td>Finals</td>
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<td>May 13</td>
<td>Commencement</td>
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<tr>
<td>May 15</td>
<td>Last day for filing credentials for admission to the First Summer Session 1977-78.</td>
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<tr>
<td>May 17</td>
<td>Graduates due in Registrar's Office by 1200.</td>
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<tr>
<td>May 29</td>
<td>Memorial Day, University closed.</td>
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Summer Session 1978

- Evening Session
- Last day for submitting credentials for admission to an undergraduate college
- Final Evening Session
- Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1978.
- Last day for submitting credentials for admission to an undergraduate college for the Second Summer Session 1978.
- Holiday, University closed.
- Last day for filing applications for degrees to be conferred August 19, 1978.
- Last day for submitting credentials for admission to Graduate Studies for the Fall Semester 1978.

THE GRADUATE CATALOG

DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

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*Ph.D. in the specialties of industrial psychology and developmental psychology offered in conjunction with the Psychology Department.

MSW, M.P.A., Ph.D. in the specialty of experimental and child psychology offered in conjunction with the Educational Psychology and

*The above dates are subject to change.
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 1952, 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 1948. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College; but in 1973, The Graduate College of the University of Nebraska was established with a University-wide graduate faculty.

Graduate studies provide the opportunity for more advanced education than the undergraduate work upon which all graduate programs are founded.

Qualified students at UNO are provided with opportunities:
1. To work toward these degrees: Master of Arts, Master of Arts for Teachers of Mathematics, Master of Science, Master of Business Administration, Master of 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 or special projects. Thus the Graduate Faculty at UNO promotes the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society. The UNO Graduate Council consists of fifteen members from among the Graduate Faculty and student body. The Council serves in an advisory capacity to the Dean for Graduate Studies and Research and is responsible for planning and policy development, review of courses and programs, and faculty and student affairs.

ACCREDITED STANDING

The University of Nebraska at Omaha is fully accredited by the North Central Association of College 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 United States, the Midwestern Conference on Graduate Study and Research, the Association of University Women, 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 I. A 30 semester-hour program (maximum of 6-hour thesis credit included) as determined by the cognizant Graduate Program Committee.

Option II. A 36 semester-hour non-thesis program as determined by the cognizant Graduate Program Committee.
Master of Arts for Teachers of Mathematics

This is a specialized graduate degree designed to provide secondary school mathematics teachers with more depth in mathematics combined with a core of relevant professional courses in education.

Master of Business Administration Degree

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

Master of Public Administration Degree

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

Master of Social Work

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

Specialist in Education Degree

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

UNIVERSITY REGULATIONS

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

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

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

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 the student is expected to assume full responsibility for knowing the 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 adviser 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 all other materials submitted in support of an application become the permanent property of the University and will not be returned. (Graduates of the University of Nebraska at Omaha need not submit transcripts.)
3. Scores on the GMAT which should accompany the application for admission to the Master of Business Administration program.

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

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

MATRICULATION FEE

A matriculation fee of $10 is payable upon initial enrollment in Graduate Studies. This fee is non-refundable.

EXAMINATIONS FOR GRADUATE STUDENTS

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

A nominal fee is charged for the examination.

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, Eppley 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 Master's 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 already holding a Master's degree in the field in question is permitted 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

Students who have been admitted into the Department of Educational Administration and Supervision may take the Miller Analogies Test in lieu of the Graduate Record Examination. Students majoring in Speech Pathology must take the Miller Analogies Test. This section 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 of 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 that are not regionally accredited will be admitted on an individual basis; an appointment to sit for the test may be scheduled through the Counseling and Testing Center.

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 that are not regionally accredited will be admitted on an individual basis; an appointment to sit for the test may be scheduled through the Counseling and Testing Center.

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 that are not regionally accredited will be admitted on an individual basis; an appointment to sit for the test may be scheduled through the Counseling and Testing Center.

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 that are not regionally accredited will be admitted on an individual basis; an appointment to sit for the test may be scheduled through the Counseling and Testing Center.
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 specific major may wish to take courses for transfer to another institution.

2. graduate students taking courses for transfer to another institution.

3. graduate students taking courses for cultural advancement.

4. graduate students taking courses for transfer to another institution.

Applicants in this non-degree category must meet graduate and departmental requirements for admission in each department to which they wish to be admitted. Non-Degree students may transfer more than nine (9) semester hours into a degree program. Any transfer up to that amount may be recommended for acceptance by the dean, which may recommend less than that maximum.

Acceptance of Senior Credits: Senior credits at an accredited institution who have obtained in advance the approval of the appropriate campus Dean for Graduate Studies and Research may receive up to 12 hours of credit for graduate courses taken at any campus of the University of Nebraska System in addition to the credits necessary to complete their undergraduate work, provided that the credits earned within the 12 months prior to receipt of the baccalaureate.

Seniors in this University graduating not more than nine hours of undergraduate credit to complete the baccalaureate's degree and wishing to register for graduate credit may be granted provisional admission to graduate study subject to receiving their baccalaureates before the twelve-month period immediately following such registration. They must file application for graduate study within 12 months. If admitted, will register on graduate study registration forms.

Course work taken prior to receipt of the baccalaureate may not always be accepted for transfer to other institutions as graduate work.

Admission to Professional Education Programs

A student who wishes to transfer to the Master's degree program in the College of Education must submit a completed application blank and one undergraduate transcript.

Applicants for this non-degree category must meet the major department and the minor department if one is in residence. They must file a request for admission to graduate study and, if the college has the right to establish policies for non-degree students enrolled in classes.

Admission to candidacy for graduate study does not admit the student to candidacy for any degree. The student must meet the requirements of the university to be admitted.

A student who has completed all of the undergraduate prerequisites for graduate study may be granted an extension of eight weeks after the beginning of the registration period. This extension will not be renewed until the student has successfully demonstrated his satisfaction of the Deanship and the ability to pursue graduate study.

Applicants to graduate study who have been graduated from unaccredited colleges may be admitted provisionally. This admission may be granted to a student who has less than a B average in the undergraduate work in his proposed graduate major and minor. (This includes students who have less than a B average in the undergraduate work in his proposed graduate major and minor and who have not completed all of the undergraduate prerequisites for graduate study)

4. All credits must be transferred from the university in which the student has completed a Bachelor's degree.

Credit received in an approved program may be applied toward the degree. For students desiring to change status, the Request for Transfer of Credit form must be completed by the student, the department head, and the dean of the college. This admission may be issued if the course work has been of a satisfactory nature and the student has met the conditions as stated in the most recent Graduate Catalog.
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 the examination.

**THESIS**

Students electing to pursue the Option 1 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 thesis and the candidate must be taken as a course in his schedule during at least one semester. The thesis should be initiated 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 as a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 16-pound weight. Except for the original, the required number of additional copies may be reproduced by mimeograph or typewriter. It is the responsibility of the student to be familiar with all instructions for the Preparation of Theses, a copy of which may be obtained in the Graduate Office. The thesis must be approved by the student's thesis committee before it is submitted to complete further work toward the degree. The thesis must be submitted in time to have the corrected and approved thesis deposited in the Graduate Office by the department chairperson no later than twelve working days prior to the conferral of the degree. The responsibility for placing the thesis in final 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.

**ORAL EXAMINATION ON THESIS**

The composition of a committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean for Graduate Studies and Research for his approval. This committee will 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 approved, a copy of the signature sheet of the committee (see above) must be forwarded to the department chairperson no later than twelve working days prior to the oral examination. The scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.

**SUMMARY OF PROCEDURE FOR GRADUATE STUDENTS**

1. File an official transcript of undergraduate credits (and graduate, if any), an application for admission form with the Director of Admissions. You will be notified by mail of your admission to graduate study.
2. Arrange to take the entrance examination (GRE, GMAT or MAT) in the Eppley Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
3. Arrange your class schedule with your adviser and have him sign your registration.
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 or session in which the degree is to be conferred, you may apply for such admission in accordance with the procedures described above.
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 any incomplete grades, pay all fees and fines (traffic, library, etc.), and satisfy any other obligations you may have before the University at least two working days before the conferral of the degree.
10. If you are writing a thesis, make arrangements with your department for the oral examination to be given with ample time to have the corrected and approved thesis deposited in the Graduate Office at least twelve working days prior to the conferral of the degree. The scheduling of oral examinations on the candidate's summer session 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 "C" or below will AUTOMATICALLY result in the student having to retake any course for which the student received a final grade of "C" or below in that course.

A grade of "D" or below in either the major or minor area is considered a failing grade and the student must receive a passing grade in subsequent attempts at retaking the course.

It is recommended that the grade of "C" in each of the three courses result in AUTOMATIC dismissal from the degree program unless the student has a "B" average or higher.

A grade of "D" or below in either the major or minor area is considered a failing grade and the student must receive a passing grade in subsequent attempts at retaking the course.

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

A student's failure to meet the requirements of his adviser, major requirement, or the degree requirements of the University will AUTOMATICALLY result in the student being dismissed from the degree program.

**POLICY ON CLASS ATTENDANCE**

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

In addition, students are required to attend classes regularly. If a student is absent or anticipates an absence, the student's primary responsibility is to inform his or her major instructor and the student should consult with them accordingly. A student whose attendance record is less than satisfactory is subject to university discipline. The instructor is nonetheless responsible for information and assignments communicated during that class session. If a student's attendance record is less than satisfactory and he or she is to be absent for an extended period, the student should promptly notify the instructor and be prepared to document the reasons for extended absences.
GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS

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

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

1. Initially, the appeal should be submitted to the student's advisor.
2. If denied, the appeal may be submitted to the Student Academic Administration Committee (Student Academic Administering Committee) for consideration.

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

1. Initially, the appeal should be submitted to the student's advisor.
2. If denied, the appeal may be submitted to the department's graduate administration committee for consideration.
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).

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 additional registrations or other than the main campuses, the Graduate Councils of the other campuses will make the final decision. Normally, this will be the final appeals body for the graduate program. (See paragraph E).

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

E. 1. Only under special circumstances will Committee III of the Executive Graduate Council hear an appeal involving the student involved with the graduate council. These circumstances are limited to occasions where Committee III 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; or
- b. The campus graduate council has failed to examine or give adequate weight to important evidence relevant to one party's position; or
- c. The campus council has given undue weight to evidence not pertinent to the case; or
- d. Some gross miscarriage of justice would be perpetrated if the decision of the campus council were allowed to stand.

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 not be made within 20 working days of the day the decision of the campus council is received. Appeals submitted to the University Council on the day it is received are not available for examination.

3. Committee III of the Executive Graduate Council must make a decision to hear the appeal or not to hear the appeal within 30 working days after receipt of the appeal.

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

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

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

OMBDUSMAN OFFICE

The Ombudsman's job is to assist you when you have a grievance or a problem with offices or individuals in the University. Advice on how to solve a problem, referrals to persons or offices that have the expertise you may need, and actions on your behalf are confidential and free. If you have questions about University procedures, or don't know where to turn when you are confronted with unusual problems, 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 may obtain a regular students activity card by paying the full-time fee of $36.00.

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

AUDIT

A student wishing to audit a course must secure the permission of his advisor, must register for the course to audit, and must secure the approval of the instructor of the course whose permission he desires to obtain. He may be allowed to audit courses only if there is available space in the class. Students enrolled in an audit course may not receive grades, academic credit, or be charged tuition. They will be considered on an audit basis only. Students carrying less than twelve hours may obtain a regular students activity card by paying the full-time fee of $36.00.

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

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the Graduate College. Typically, courses numbered 800 or higher 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 a graduate student enrolled in those courses numbered 800-899 will do work of a more advanced or critical nature than undergraduate students. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.
RESIDENCE REQUIREMENTS

A minimum of 30 semester credit hours in residence (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 be granted the permission to transfer as many as five semester hours of credit on a thirty-hour program, or four semester hours of credit on a thirty-six-hour program, provided the courses are pertinent to the student's graduate program.

The total hours of transfer credit may not exceed the number stated except by permission granted by the Dean for Graduate Studies and Research for his approval.

Courses for which transfer is required must have been used in the student's program as a criterion for graduation.

The total number of course hours which may be transferred is limited to a maximum of six semester hours (or four quarter hours) during the first, second, and third years of study. Students who have completed graduate courses in another institution may be granted permission to transfer a maximum of six semester hours (or four quarter hours) during the first, second, and third years of study with the approval of the Dean for Graduate Studies and Research.

Students who wish to take graduate courses at the University of Nebraska at Omaha in order to transfer to UNO should secure the Intercampus Graduate Student Exchange from their home institution. Transfer of graduate credit from all schools where the University of Nebraska at Omaha is accredited may be accepted at the discretion of the Department of Graduate Studies and Research, based upon the cost factors and peculiar circumstances involved.

WITHDRAWAL FROM THE UNIVERSITY

To officially withdraw from the University, a student must complete an official withdrawal form, which is available in the Registrar's Office. The withdrawal form must be submitted to the Registrar's Office within the established time frame, which is typically three days from the date of the withdrawal request. The Registrar's Office will then process the withdrawal and update the student's academic record accordingly.

TIME LIMIT FOR GRADUATE DEGREES

The work required for a master's degree must be completed within six consecutive calendar years. Upon the recommendation of the department concerned, a student may be granted an extension for an additional year. The extension period is designed to provide an opportunity for students who are unable to complete their degree requirements within the six-year period allowed for the Master's degree.

TUITION, FEES, DEPOSITS AND REFUNDS

The University reserves the right to change the amount of tuition or fees at any time, and to assess charges for breaks, loss or theft, 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 withdrawing from the University after thedrop date or before the end of the term will be assessed additional fees for withdrawal or non-completion.

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. Registration for the purpose of an

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

Tuition:
Per Semester Credit Hour. Undergraduate or Graduate.

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.

Portal and Tuition:
Fee may be waived by the Dean for Graduate Studies and Research for his approval.

Orientation Fee (Undergraduate):
Payable upon enrollment at the University of Nebraska at Omaha.

5.70

Special Institutional Fees:
Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the Dean for Music Department for any full-time student who are music majors or minors.)

One semester credit hour:

$55.00

Two semester credit hours:

$75.00

Three semester credit hours:

$105.00

Four semester credit hours:

$155.00

Conference, non-credit, and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

Residency Program and Facilities Fee (UPFF)...
...

25.

Student (12 credit hours or more) per semester...

$122.00

Part-time students (less than 12 hours)

$91.00

$36.00

$36.00

$36.00

$36.00

Special Student Activities:
Continuing Engineering Studies Program (not for credit)...
...

25.

The University reserves the right to charge the amount of tuition or fees at any time, and to assess charges for breaks, loss or theft, 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 withdrawing from the University after the drop date or before the end of the term will be assessed additional fees for withdrawal or non-completion.

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. Registration for the purpose of admission is determined by the student. The application and its requirements are subject to change without notice. Students who register to take a course for credit and who later change to audit registration will be required to pay the full resident or non-resident tuition rate.

Orientation Fee (Undergraduate):
Payable upon enrollment at the University of Nebraska at Omaha.
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 prepar-
ing for teacher certification.
Vacancy Bulletin Fee & Postage Cost ............. $10.00
3rd class mailing ........................................ $10.00
1st class mailing ....................................... $17.00
The vacancy bulletin will not be mailed unless the registration fee is paid.
Credentiai Fee ........................................ $100.00
Preparation of credentials
No credentials will be sent unless the registration fee and the credential fee has been paid.

Late Fees and Penalties:
Late Registration (day or evening classes) ...... $5.00
Late Examination (each course) ............... $5.00
Late Payment of Tuition Billing ................. $10.00
Reinstatement of Cancelled Registration .... $100.00
Replacement of ID Activity Card ............... $1.00
Deposit:
Key (per key with authorization) refundable ..... $1.00
Lockers and Travel Deposit-Refundable .... $5.00
Required for students taking HPER service classes.
Also required of Faculty, Staff and students using Field House Facilities.
Chemistry Laboratory Deposit-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 ................. 7.50
College Level Examination Program (CLEP) ........ $20.00

Refund Schedule:
Refunds are computed from the date application is received by the Registrar, NOT from date of
withdrawal from classes. Refund slips issued by the Registrar and given to students are void and
not redeemable, unless presented to the Cashier (Eppley Buildings) within 30 days after date of re-
verse. See policy entitled "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 first be 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.

Summer Sessions (5 and 6 Week)

<table>
<thead>
<tr>
<th>Period of Drop/Withdrawal</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>Second week of classes</td>
<td>75%</td>
<td>25%</td>
<td>0%</td>
</tr>
<tr>
<td>Third week of classes</td>
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<tr>
<td>Fourth week of classes</td>
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<td>75%</td>
<td>0%</td>
</tr>
<tr>
<td>Fifth week of classes</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
</tr>
</tbody>
</table>

RESIDENT STUDENTS

A student's right to classification as a resident for purpose of registration in a state educational in-
sitution must be determined under the provisions of Nebraska Revised Statutes of 1943, Sec. 85-502
(R.S. Supp., 1963). (See General Catalog.) Any student who has been classified as a nonresident who
believes he can qualify as a resident should contact the Registrar's Office.

FINANCIAL AID FOR GRADUATE STUDENTS

GRADUATE ASSISTANTSHIPS

Available for qualified students who are enrolled in a graduate degree program are graduate assist-
antships in teaching, research or laboratory supervision. The assistant's assignment is designed to pro-
vide unexpired opportunities for supervised educational experiences at the graduate level in conjunc-
tion with the degree program. The stipends range upward from $3101.00. Approximately twenty
hours of work per week is required. The enrollment of students with assistantships will be limited to
no more than twelve credit hours per semester unless the student has demonstrated extraordinary effi-
ciency and the adviser recommends the abnormal work load.

NON-CREDIT AND SPECIAL COURSES (10 Weeks or More)

Withdrawal before classes start .......... $100.00
Withdrawal before first week elapsed .... $50.00
Withdrawal after 2 weeks elapsed .......... 0% $100.00
Withdrawal before second class .......... $100.00
Withdrawal before second class .......... $50.00
Withdrawal after second class .......... 0% $100.00

Tuition waivers are often available for qualified students who have been admitted to graduate study. Eligibility is based on academic qualifications and financial need.

SCHOLARSHIPS

Phi Delta Gamma, a national fraternity for women, offers two annual scholarships of $150 each to
women graduate students who have completed approximately one half of their graduate work with an

UNIVERSITY OF NEBRASKA AT OMAHA

THE GRADUATE CATALOG

Summer Evening and Special Contract (7 and 8 Week)
Before first official day of semester .......... 100% 0%
First three days of classes ................. 100% 0%
Remainder of first week ................. 75% 25%
Second week of classes .......... 50% 50%
Third week of classes .......... 25% 75%
excellent record: The Mary-Ellen Patterson-Phi Delta Gamma Scholarship and the Nelle Boyer-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 society for graduate women in all fields. Membership is by invitation.
Phi Delta Kappa is a national fraternity for men who are graduate students in Education. Membership is by invitation.
Beta Gamma Sigma is a national honorary society for students in Business Administration. Membership is by invitation.
Phi Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.
Omega Delta Epsilon is a national honorary association for graduate students in Economics. Membership is by invitation.

ADMINISTRATION FOR GRADUATE STUDIES

GRADUATE FACULTY
The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses 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 doctoral graduate programs, and serve on the final examining committees for these students. These requirements are given in 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 be a member of the Graduate Faculty and when elected to the Graduate Faculty should be a member of 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. The academic requirements may be divided into academic requirements or academic programs. The former is usually more general and may relate to the requirements of the Graduate Faculty. The latter is usually more specific and is usually required for a particular degree.

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. The Graduate Council recognizes such qualifications of graduate faculty members.

Requirements for the nomination of Graduate Faculty Fellows include:
1. The nominee must be a member of the Graduate Faculty and 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 the 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 grant 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. The 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 where these examinations are given in the student’s thesis or field project supervision required.

Each new graduate student, in conference with the chairperson of the Graduate Program Committee and the Dean for Graduate Studies and Research, is designated by the chairperson of the student’s graduate Program Committee and for the case of 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. The academic requirements may be divided into academic requirements or academic programs. The former is usually more general and may relate to the requirements of the Graduate Faculty. The latter is usually more specific and is usually required for a particular degree. The academic requirements may include requirements of the Graduate- level certification or recognized stages of professional development. Every degree candidate’s plan of study must be designed to satisfy the requirements of a program which has been approved by the Graduate Faculty. Both major and minor requirements, together with quality-of-work standards, are included under programs; also included are transfer credits and the requirements which are not major or minor courses.

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

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 professors. The Center focuses upon problems of low-income areas (both urban and rural) but does not offer sep-

THE GRADUATE CATALOG 23
graduate degree programs. However, there will be provided appropriate opportunities for graduate students from several disciplines (e.g., Sociology, Psychology, Urban Studies, Business Administration, Home Economics, Social Work, Counseling, Educational Administration, and Urban Education) to have, as part of their regular graduate programs practicum-type experiences, and to interact on an interdisciplinary basis. This type of university outreach into the low-income and poverty areas can be productive for the community and for students as well as faculty from all of the units of the University.

POLICY ON PLAGIARISM

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

Plagiarism by Faculty

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

Plagiarism by Students

The investigation of allegations of plagiarism by a student or appeals therefrom, at any major administrative unit shall be carried out under the appropriate faculty-student appeals committee at that campus.
**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 thesis (a maximum of 6 hours), a minimum of 2 hours of appropriate courses to be determined by the student and his faculty committee. Students may conduct thesis research in animal behavior, animal physiology, cellular ichthyology, invertebrate zoology, mycology, ornithology, parasitology, plant anatomy, plant systematics, protozoology, vertebrate physiological, vertebrate anatomy.

The candidate must pass a final oral examination and present his/her thesis results at an open meeting of the faculty and students.

**Master of Science**

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

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

The candidate must pass a final written comprehensive examination.

**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.

Emphasis is placed on decision making and problem solving.

**Admission Standards**

The minimum standards for students in the MBA program are:

- GPA x 200 + GMAT = 970

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:

<table>
<thead>
<tr>
<th>Area</th>
<th>Course Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>Econ 201 and Econ 202 or Econ 803</td>
</tr>
<tr>
<td>Accounting</td>
<td>Acc 201 and Acc 202 or BA 811</td>
</tr>
<tr>
<td>Computers in Business</td>
<td>DB 211, DB 212, and DB 213</td>
</tr>
<tr>
<td>Quantitative Methods</td>
<td>DS 315, DS 316, and DS 317</td>
</tr>
<tr>
<td>Principles of Decision Sciences</td>
<td>DS 318</td>
</tr>
<tr>
<td>Statistics</td>
<td>DS 319, DS 320, and DS 321</td>
</tr>
<tr>
<td>Business Law</td>
<td>DB 325, DB 326, and DB 327</td>
</tr>
<tr>
<td>Corporation Finance</td>
<td>DB 328, DB 329, and DB 330</td>
</tr>
<tr>
<td>Management Principles</td>
<td>MOB 349, MOB 350, and MOB 351</td>
</tr>
<tr>
<td>Marketing</td>
<td>MKT 331, MKT 332, and MKT 333</td>
</tr>
</tbody>
</table>

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

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

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

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

Core Courses
Option courses: 12 hours
Electives: 6 hours

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: 3 hours
BA 840V Business and Society: 3 hours
BA 841V Managerial Economics: 3 hours
BA 843V Human Behavior in Organizations: 3 hours
BA 880V Policy Planning and Strategy: 3 hours

Option Courses
Option #1 - Business Administration
BA 820V Environment of Management: 3 hours
BA 825V Marketing Policies: 3 hours
BA 850V Financial Management: 3 hours
BA 875V Business Conditions Analysis: 3 hours

Option #2 - Marketing
BA 840V Marketing Policies: 3 hours
BA 841V Promotional Policies: 3 hours
BA 845V Seminar in Marketing: 3 hours

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

Option #4 - Real Estate
BA 860V Real Estate and Land Use Economics: 3 hours
BA 861V Current Problems in Real Estate and Land Use: 3 hours
BA 899V Thesis: 6 hours

Option #5 - Accounting
BA 822V Accounting Theory: 3 hours
BA 823V Controlleshop: 3 hours
BA 825V Seminar in Accounting: 3 hours

Option #6 - Economics
BA 805V Business Conditions Analysis: 3 hours
BA 806V Business Conditions Analysis (with Economics): 3 hours

Option #7 - Management
BA 820V The Environment of Management: 3 hours
BA 825V Personnel Administration: 3 hours
BA 850V Business Information Systems: 3 hours
BA 855V Business Conditions Analysis: 3 hours
BA 875V Business Policies: 3 hours

Option #8 - Banking and Finance
BA 820V Financial Management: 3 hours
BA 835V Seminar in Money and Banking: 3 hours
BA 845V Seminar in Money and Banking: 3 hours
BA 853V Banking and Financial Markets: 3 hours

Option #10 - Individually Designed Program
A student under the guidance of the Director of the Graduate Studies in Business and Economics and with the approval of the Graduate Faculty of the College of Business Administration may develop an option of 12 hours of coursework.

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

Course Requirements
The Graduate Catalog

THE GRADUATE CATALOG

The Graduate Catalog 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 managed by the Graduate College, UN-L. Requirements for the program are as follows:

- Master of Science in Civil Engineering
- A minimum of 30 semester hours is required for the degree.

Civil Engineering

Master of Science

This is a professional graduate degree designed to provide a broad educational background for stu- 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 managed by the Graduate College, UN-L. Requirements for the program are as follows:

- Master of Science in Civil Engineering
- A minimum of 30 semester hours is required for the degree.
Communication

Master of Arts

In order to be admitted without deficiencies to graduate study in Communication, the applicant must have earned at least 15 undergraduate semester hours of appropriate courses in communication and sciences, including advanced (upper division) work in the area of graduate concentration. Applicants who have more than 9 semester hours of deficiencies will be advised to remove them before reapplying for any 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 conjunction with research and theory. Currently the core courses are Communication 890V, 890-891M, 891MT, 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 option or the non-thesis option.

Thesis option:
- Successful completion of 24 semester hours of course work, at least 12 hours of which must be of advanced level; plus a thesis (6 credit hours) based on a proposal approved by the student's committee. The completed thesis must be orally defended 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 38 hours of which must be of advanced level; plus a comprehensive examination covering the student's major emphasis and minor 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 points during the course of the year. Once a program is begun, students are expected to pursue the program on a continuous enrollment basis. Fulltime study is encouraged, however, provision is made for those unable to devote more than part-time to their program. All students are subject to the availability of course-work, whether full or part-time, and must consult their advisor to determine their 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 coursework is 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.
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
- 801V. Criminal Justice Planning and Innovation (6 hrs.)
- 802V. Seminar in Administration of Justice (6 hrs.)

Related Core Courses
- (student selects 2 with adviser approval) (6 hrs.)
- 803V. Comparative Law Enforcement Systems (6 hrs.)
- 805V. Seminar in Criminal Justice (6 hrs.)
- 806V. Seminar in the Processes of the Criminal Justice System (6 hrs.)
- 810V. Seminar in Crime Prevention (6 hrs.)
- 814V. Independent Study (6 hrs.)

Related Cognate Courses
- (in consultation with adviser 6 hrs. from each of two areas) (6 hrs.)

Courses selected with cognate department and adviser approval from Business Administration, Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.

The Graduate Catalog
DRAMATIC ARTS

Master of Arts

An applicant for graduate study in Dramatic Arts must present a minimum of 15 undergraduate semester hours in appropriate courses in dramatic arts beyond the introductory course. Deficiencies must be made up during the first year of graduate study.

All students who intend to become degree candidates must complete core requirements consisting of a course in research methods and one theory seminar. As soon as possible after completing the core requirements, the student must schedule and participate in an oral candidacy and proctor examination conducted by the Graduate Program Committee or the student's Graduate Committee (if appointed). Following this examination, the decision will be made as to whether the student will follow a thesis or non-thesis option in the Master of Arts degree program and a proposal must be submitted to the Graduate Office. The student must then complete either of the following plans of study approved for him or her:

Option I: Successful completion of 24 semester hours of course work including at least 9 hours in 800V level courses; plus a thesis (6 credit hours) based on a proposal approved by the student's committee, defended orally before the committee; plus an oral examination over his area of major emphasis, judged by a faculty committee.

Option II: Successful completion of 36 semester hours of course work including at least 18 hours in 800V and 900V level courses, and an independent creative project in dramatic criticism, film, theatre history, or theatre production; plus a written examination over his area of major emphasis, judged by a faculty committee.

ECONOMICS

Master of Arts

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

Degree Requirements: The course program must include a balanced coverage of the major areas in economics at least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 832V, and 839V. The course work under the Master of Arts program consists of 24 hours and 6 hours of thesis under course 899, Thesis.

Master of Science

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

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 18 hours of the required 36 hours must be approved at the 800V-level or above. Students must also satisfactorily complete Economics 802V, 832V, and 839V.

There are two basic options for students seeking a Master of Science. Option I consists of a total of 36 hours of course work. Option II is provided for those students interested in graduate work in Economics. Under this option a student takes 30 hours of course work and writes two-three-hour papers. These papers receive credit courses 808V and 809V, Urban-Regional Research.

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

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

EDUCATIONAL ADMINISTRATION AND SUPERVISION

Master of Science

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

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

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

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

Specialist in Education

An applicant for admission to the Specialist in Education degree in the department of Educational Administration and Supervision must hold a Master's degree and present acceptable evidence of having served as a certified school administrator or supervisor. These programs are designed to prepare the candidate to not less than 66 graduate semester hours. The program is carried out under the direction of a graduate faculty supervisory committee. Prior to admission to candidacy, all stu-
ECON 113M, Government and Labor 3 hours
ECON 118M, Collective Bargaining 3 hours
ECON 105Y, Economic Education 2 hours
ECON 206Y, Economic Education II 2 hours
ECON 180Y, Independent Study in Urbanism 1 hour
ECON 184Y, Interdisciplinary Seminar on Urban Community 3 hours
ECON 186Y, Seminar in Urban Economics 3 hours
COUN 609M, Guidance Skills for Secondary Teachers 3 hours
COUN 691M, Group Evaluation Techniques 3 hours
COUN 692V, Involvement for Urban Counselor 3 hours
COUN 693V, Guidance Services for the Disadvantaged Youth 3 hours
GEOG 612M, Urban Geography 3 hours
GEOG 690M, Urbanization 3 hours
GEOG 821V, Cultural Geography 3 hours
HIST 613M, American Social and Intellectual History since 1865 3 hours
HIST 827M, 20th Century America, to 1933 3 hours
HIST 828M, 20th Century America, 1933 to present 3 hours
HIST 844M, American Urban History Since 1870 3 hours
PSY 656V, Learning in Children 3 hours
PSY 659V, Social and Personality Development 3 hours
PSY 825V, Tests and Measurements 3 hours
SW 620M, Human Behavior and the Social Environment 3 hours
SW 622M, Physical Components of Social Functioning 3 hours
SW 857M, Public Welfare Organization 3 hours
SW 861M, Public Welfare Policy 3 hours
SOCI 610M, Social Control of Behavior 3 hours
SOCI 620M, Collective and Exclusion Behavior 3 hours
SOCI 630M, Advanced General Sociology 3 hours
SOCI 810M, The Community 3 hours
SOCI 813M, Sociology of Deviant Behavior 3 hours
SOCI 814M, Urban Sociology 3 hours
SOCI 815M, Seminar in Cross Cultural Communication (also ECON 833M Speech) 3 hours
SOCI 842M, Complex Social Organizations 3 hours
SOCI 875M, Social Change 3 hours
SOCI 885V, Independent Study in Urbanism 3 hours
PSY 656V, Learning in Children 3 hours
BA 801V, Business and Society 3 hours
BA 831V, Human Behavior in Organization 3 hours
CE 658M, Urban Systems I 3 hours
GERO 810M, Educational Gerontology 2 hours
JOUR 422M, Public Relations 3 hours
JOUR 420M, Mass Communications and Public Opinion 3 hours
SOC 832M, Urban Sociology 3 hours
US 605V, The Metropolis as a Public Environment 2 hours
US 602V, Basic Ethnology, and American Urban Culture 3 hours

FED 711V, Conflict and Community in Urban Education 3 hours
FED 805V, Seminar in Urban Education 3 hours
Primary Electives (6 to 9 hours)
FED 806V, Education and Society 3 hours
FED 807V, Field Research 3 hours
FED 808M, Mental Health 3 hours
FED 809V, Anthropology and Urban Education 3 hours
FED 810V, Play and Education 3 hours
FED 894M, Growth and Learning of the Disadvantaged 3 hours
Secondary Electives (Minimum of 9 Hours)**

ECON 113M, Government and Labor 3 hours
ECON 118M, Collective Bargaining 3 hours
ECON 105Y, Economic Education 2 hours
ECON 206Y, Economic Education II 2 hours
ECON 180Y, Independent Study in Urbanism 1 hour
ECON 184Y, Interdisciplinary Seminar on Urban Community 3 hours
ECON 186Y, Seminar in Urban Economics 3 hours
COUN 609M, Guidance Skills for Secondary Teachers 3 hours
COUN 691M, Group Evaluation Techniques 3 hours
COUN 692V, Involvement for Urban Counselor 3 hours
COUN 693V, Guidance Services for the Disadvantaged Youth 3 hours
GEOG 612M, Urban Geography 3 hours
GEOG 690M, Urbanization 3 hours
GEOG 821V, Cultural Geography 3 hours
HIST 613M, American Social and Intellectual History since 1865 3 hours
HIST 827M, 20th Century America, to 1933 3 hours
HIST 828M, 20th Century America, 1933 to present 3 hours
HIST 844M, American Urban History Since 1870 3 hours
PSY 656V, Learning in Children 3 hours
PSY 659V, Social and Personality Development 3 hours
PSY 825V, Tests and Measurements 3 hours
SW 620M, Human Behavior and the Social Environment 3 hours
SW 622M, Physical Components of Social Functioning 3 hours
SW 857M, Public Welfare Organization 3 hours
SW 861M, Public Welfare Policy 3 hours
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SOCI 875M, Social Change 3 hours
SOCI 885V, Independent Study in Urbanism 3 hours

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ECON 806V, Economics Education 3 hours
ECON 807V, Field Research 3 hours
ECON 808M, Mental Health 3 hours
ECON 809V, Anthropology and Urban Education 3 hours
ECON 810V, Play and Education 3 hours
ECON 894M, Growth and Learning of the Disadvantaged 3 hours
Secondary Electives (Minimum of 9 Hours)**

ECON 806V, Economics Education 3 hours
ECON 807V, Field Research 3 hours
ECON 808M, Mental Health 3 hours
ECON 809V, Anthropology and Urban Education 3 hours
ECON 810V, Play and Education 3 hours
ECON 894M, Growth and Learning of the Disadvantaged 3 hours

**

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

Candidacy for the Degree

1. A plan of study and an application for candidacy are completed with the student's advisor before nine (9) hours of graduate work have been completed. This plan of study must be approved by the Department and the Graduate Office.
2. A written comprehensive examination is required during the semester in which a student completes the program. Application for the examination must be made to the Director of Graduate Studies in the Department. The examination covers coursework taken and its content in determinant.

Degree Program

1. Required Courses
   a. FED 801V, Introduction to Research 21 hours
   b. FED 802V, History and Philosophy of Education 3 hours
   c. FED 804V, Diagnosis and Corrective Instruction 3 hours
   d. FED 806V, Implementation and Trends in Elementary Education 3 hours
   e. FED 807V, Introduction to Curriculum Planning—Elementary 3 hours
   f. FED 810V, Similar in Elementary Education 3 hours
   g. FED 813V, Administration and Supervision in Elementary School 3 hours
   h. Area of Concentration 9-12 hours

Each student will include in his Plan of Study, an area of concentration in a special field which will provide depth in an area of his interest. All concentrations will be decided upon in conference with the student's departmental advisor.

Possible choices include: Reading, Early Childhood Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics, etc.

11. Electives

3.4 hours

Non-Degree-Seeking Students

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

ENGLISH

Master of Arts

To be admitted to graduate study in English, a student should have completed at least eighteen credit hours in undergraduate English courses above the freshman level with an average grade of "B" or above.

1. All candidates for Master of Arts degrees in major in English are required to take English 801V Introduction to Literary Research within the first nine hours of graduate study, and to complete study:

Plan A: Successful completion of 24 credit hours in course work, including at least 12 hours in 800V at 900V level courses plus a thesis (6 credit hours) on an approved topic accepted by a faculty committee, plus a written examination prepared and judged by a faculty committee.
Plan B: Successful completion of 36 credit hours in course work, including at least 18 hours in 800V-900-level courses; plus a written examination prepared and judged by a faculty committee.

The following English seminars in major periods vary in emphasis and may be repeated for credit: English 806V, 808V, 809V, 810V.

To get revisions, requests for information during the 1977-78 academic year should be directed to the Chairperson of any of the three mentioned departments.

**GENERAL SCIENCE**

The program for the Master of Arts with a major in General Science in the Department 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 the thesis 3-6 hours for a combined total of 30 hours.
- Option II should be chosen upon the advice and with the approval of the student's graduate advisor. This option requires a minimum of 36 semester hours in geography courses numbered 800M-800V and 900, or selected course work 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 of a 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 interviews. 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; History and Philosophy of Geography, 801V; and Geography 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 advisory 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 in 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 a related field. Students pursuing the Master of Science Degree with a major in physical education will select course work from the four areas. A balance of 15 and 9 must be maintained between major and minor areas of study. Seminar study should be divided two ways: first, students must have achieved a grade average of 2.75 in their overall undergraduate work and must follow all other admission requirements for Graduate Studies.

Students may be admitted provisionally who have less than 15 (twenty-one) hours of undergraduate preparation or who have not achieved a 2.75 overall grade average. They shall be removed from this status when they become eligible for and have achieved candidacy.

**M.A. Program with Thesis (Option I)**

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

- 12 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 803V and no more than 6 hours of credit may be taken by a student under the direction of a faculty advisor. A balance of 15 and 9 must be maintained between major and minor areas of study. Seminar study should be divided two ways, and depending upon the student's area of concentration.
- 15 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, the thesis, not to exceed 6 hours, is an independent study. A thesis 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.

**AREA**

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<tr>
<th>Area</th>
<th>Hours</th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
<tr>
<td>PE Core</td>
<td>12</td>
<td>12</td>
<td>12</td>
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<tr>
<td>PE 820V problems in Physical Education</td>
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<td>12</td>
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<tr>
<td>PE 820V Curriculum in Physical Education</td>
<td>12</td>
<td>12</td>
<td>12</td>
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<tr>
<td>PE 840V Motor Learning and Performance</td>
<td>12</td>
<td>12</td>
<td>12</td>
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</tbody>
</table>
Students applying for study in the Interdepartmental Area must hold a bachelor's degree in Home Economics graduate offerings at UNO may be used as a minor in another discipline. The minor portion of the examination will be over the specific course deficiency. In the major area, the selection of the second reader must be approved by the chairperson of the Graduate Program Committee of the College of Agriculture and Extension. The minor 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 major area. 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 recirculation. Admittance to a graduate program in the College of Home Economics requires presentation of the baccalaureate degree from an accredited institution. Departments within the college may determine specific course deficiencies. Application for a graduate degree program in Home Economics is 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 normally be necessary to take 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.

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UNIVERSITY OF NEBRASKA AT OMAHA

1. has state certification for teaching secondary school mathematics.
2. has maintained at least a "B" average in previous mathematics coursework including at least two courses beyond elementary calculus.
3. 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 Arts for Teachers of Mathematics

To obtain the M.A.T. degree, the student must:
1. Earn a total of 36 credits, of which 24 must be in mathematics.
2. Include in his program mathematics courses 801T, 802T, 803T, 804T, 823M-870T (Courses 823M-870T may be waived if the equivalent undergraduate courses have been taken).
3. Include in his program secondary education courses and at least one additional secondary education course selected from 825V, 830V, 833V, 890M, 846V, or 936V.
4. As listed under the Master of Science above.
5. As listed under the Master of Science above.

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 as a prerequisite a minimum of fifteen undergraduate semester hours of course work in Political Science or their equivalent as determined by the department committee. The department requires two letters of recommendation from persons who are in a position to evaluate the applicant's potential in graduate studies.

Master of Arts

Degree Requirements: The course program must include twelve hours of the required thirty hours at the 800V level exclusive of thesis hours. The remaining course hours are elective but must be planned in conference 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 must be planned in conference 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 801T and 802T, 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 sections and three 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 thesis credit are to be included in this total.

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

I. Psychology 934T (Personality in Learning)
   II. Psychology 935 (Personality in Development)
   III. Psychology 936 (Personality in Psychological Processes)
   IV. Psychology 937 (Personality in Social Psychology)

Additional required course work may be designated by the department. This will ordinarily include a thesis seminar requirement as the M.A. and all rules concerning thesis course work are the same in both degree programs.

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 requires the passing of a comprehensive examination and the completion of the M.S. dissertation.

Additional required course work may be designated by the department. This will ordinarily include up to 3 hours of practicum credit. Final determination of a student's plan of study always resides with his academic adviser.

The student must present three copies of the dissertation to the Graduate 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 as prerequisites a course in each of the following: Introduction to Public Administration, Accounting, and Statistics. The Department will recommend a provisional admission to students who have completed less than the above prerequisites but who will be removed if they fail to complete the minimum prerequisites by the time they enter the program.

This is also the case for those students who have completed the prerequisites for the B.S. degree in Public Administration but lack the average of a "C" in Introduction to Public Administration unless granted a waiver in writing by the Departmental Graduate Committee. No student will be permitted to take a graduate course in Public Administration without having had an introductory course in Public Administration unless expressly granted a waiver in writing by the Departmental Graduate Committee.

The student will be assigned an adviser in the Public Administration Department. If he/she chooses no position in Public Works-Civil Engineering, Social Work, or Gerontology, an adviser from the optional field will also be assigned to the student.

Degree Requirements

Thirty-six hours consisting of thirty hours of course work plus six hours of internship in a public agency for 3-4 months. The internship may be waived for prior service in a civil service or semi-public agency. Requests to waive the internship will be submitted to the departmental graduate committee upon application for candidacy. In lieu of the internship, if waived, the student must take an additional 4 hours of approved course work. Eighteen of the course work must be at the 800 level and a comprehensive written final examination is required.

Admission to Candidacy for Graduate Degree

It is the student's responsibility to make application for candidacy for the degree as soon as he can qualify for admission to candidacy. The qualifications are: (1) the student must have completed all course work required for the degree candidacy at the time he/she files the Graduate Catalog Application; (2) the graduate course work must have been completed at this University; (3) a grade average of "B" with no grade lower than "C"; and (4) the student must have completed all course work required for admission.

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

Application forms must be filled out by the student — in consultation with his major and minor adviser as soon as the student qualifies for admission to candidacy. Both the major and minor programs must be carefully and completely planned at this time and the application should be submitted to the Director of Graduate Study and the minor adviser. The application form and plan of study should be approved by the major adviser and minor adviser. In addition, applications for admission must be filed in the Graduate Office and copies should be provided for the major adviser, the minor adviser, and the student.

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

Courses Required of all Options

Dependent on options.

General Public Administration

(17 hours from the following selected list in consultation with Adviser.

P.S. 8044, The Legislative Process
P.S. 8045, The Judicial Process
P.A. 8433, Municipal Administration
P.A. 8304, Seminar in Public Administration
Econ 856, State and Local Finance
P.S. 8158, Seminar in Public Law
P.A. 8308, Seminar in Public Policy

Master of Public Administration

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

SECONDARY/POST-SECONDARY EDUCATION

Master of Science (with Minor)

Students seeking the Master of Science Degree with a major in Secondary Education and a minor in some academic or professionally related area are required to select course work from 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

HOURS

I. SED Core

Min Max

6

SED 421V — Seminar in Secondary Education

Plus one of the following:

SED 490V — Pre-Service Post-Secondary/Higher Education

SED 420V — Seminar for Cooperating Teachers

SED 430V — Emerging School Curriculum

SED 432V — Analysis of Teacher Behavior

SED 446V — Simulation Gaming Laboratory for Secondary Teachers

SED 534V — Seminar in Applications of Non-Verbal Communication Theory

II. Research

Min Max

3

Research Methods, Statistical Methods, Test & Measurements

III. Professional Specialization

Min Max

3

Improvement of Instruction, Teaching Field Seminars, Independent Research, Special Studies

IV. Related Professional Courses

Min Max

8

V. Related Academic Courses

Total: 36 hours

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

** Minimums or Maximums are determined by advisor.

Master of Science (without Minor)

Students seeking the Master of Science Degree with a major in Secondary Education and no minor are required to select course work from 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.
### Social Work

The Profession of Social Work

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

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

#### Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. There are two programs leading to the Masters of Social Work Degree. The Advanced Standing Program, for students with an approved Bachelor's degree in social work, requires 42 credit hours of graduate study, social work, which may be completed in a minimum of two semesters and a full summer. The Two Year Program for students with a Bachelor's degree not in social work, requires the same 42 credit hours plus up to 22 graduate hours of social work related courses. Specific foundation course requirements are determined on the basis of a student's previous course work and/or tested knowledge.
3. Details about research, practicum, and other course requirements may be obtained from the Graduate School of Social Work.

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

#### Sociology

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

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

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

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

### Master of Arts

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

### Master of Science with a Major in Applied Sociology

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

### Master of Arts in Sociology

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

#### Master of Arts

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

Registration for this part of the examination must be made with the Department not later than the end of the seventh week of the semester in which the examination will be taken. If the examination is

<table>
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<tr>
<th>AREA</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>I. SED Core</td>
<td>Min Max</td>
</tr>
<tr>
<td>1. SED 235I — Seminar in Secondary Education</td>
<td>9 21</td>
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<tr>
<td>Plus two of the following: SED 80MV — Problems Post-Secondary/Higher Education</td>
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<tr>
<td>SED 820V — Seminar for Cooperating Teachers</td>
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<tr>
<td>SED 820W — Emerging School Curriculum</td>
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<td>SED 833V — Analysis of Teacher Behavior</td>
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<tr>
<td>SED 949 — Simulation Gaming Laboratory for Secondary Teachers</td>
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<tr>
<td>SED 954V — Seminar in Applications of Non-Verbal Communication Theory</td>
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<tr>
<td>II. Research</td>
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<tr>
<td>Research Methods, Statistical Methods, Tests and Measurements</td>
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<tr>
<td>III. Professional Specialization</td>
<td>12 12</td>
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<tr>
<td>Improvement of Instruction, Teaching Field</td>
<td></td>
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<tr>
<td>Seminars, Independent Research, Special Studies</td>
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<tr>
<td>IV. Related Professional Courses</td>
<td>6 6</td>
</tr>
<tr>
<td>Courses that support ultimate goal of the student are approved by advisor in advance of any course enrollment.</td>
<td></td>
</tr>
<tr>
<td>Substitutions not approved by advisor in advance of enrollment may not be included in the program. Acceptable alternatives should be included in the graduate program at the time it is filed. Seminars, research projects, practice, etc., outside the department of Secondary Education may be taken only with special permission of the advisor before enrollment.</td>
<td></td>
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<tr>
<td>V. Related Academic Courses</td>
<td>18 36</td>
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<tr>
<td>Total: 36 hours</td>
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</tbody>
</table>

**Note:** The examination deals with those concepts that are unique to each student's program but may also re-examine areas of weakness revealed by Part I.

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

Registration for this part of the examination must be made with the Department not later than the end of the seventh week of the semester in which the examination will be taken. If the examination is
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 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 438, Speech Mechanisms; SPED 443, Speech Pathology I: Articulation; SPED 444, Speech Pathology II: Rhythm and Symbolization; SPED 445, Speech Science II: Experimental and Applied Phonetics; SPED 450, Communication Disorders in the Elementary and Secondary Schools; SPED 451, Basic Clinical Practicum in Speech Pathology; SPED 472, Childhood Language Disorders.
4. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
5. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   a. Required Courses:
      FED 801V Introduction to Research
      SPED 841V Advanced Clinical Practicum in Speech Pathology (schools)
      SPED 842V Advanced Clinical Practicum in Speech Pathology (externship)
      SPED 844V Diagnostic Methods in Communicative Disorders
      SPED 848V Clinical Audiology
   b. Elective Courses:
      Students may choose any of the courses in the area numbered 800V or above.
6. 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 content course of study designed to improve and advance competencies in the area of mental retardation and to pro­vide investigative approaches to problems associated with children who are mentally retarded. Re­quirements include:
1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major adviser.
2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.
3. Students may undergo course work which will lead to:
   a. a major of 24 hours in mental retardation.
   b. a thesis not to exceed six semester hours.
   OR
   a. a major of 15 semester hours in mental retardation.
   b. a minor of nine semester hours in a related field of interest.
   c. a thesis not to exceed six semester hours.
4. To be admitted as a candidate for the M.A. degree in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive exam­ination covering these first twelve hours.
5. Each candidate will submit a thesis proposal to his committee for approval. A thesis will repre­sent six semester hours in independent study under the direction of the major adviser.

6. Subject to review of the applicants transcripts and related experiences with retarded children, required courses may be selected from the following:
   a. Required Courses:
      FED 801V Introduction to Research
      SPED 870V Seminar in Special Education
      SPED 872V Practicum in Special Education
      SPED 889 Thesis
   b. 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, the student is recommended for K-12 endorsement in reading in Nebraska.

1. Core Professional Courses: 18 hours
   a. Including work in graduate reading courses SPED 911, 912, 813V, 814V, 815V, 417V or 916V or their equivalent.
2. Related Professional Courses: 6 hours
   a. Including Introduction to Research and selection work in such areas as foundations and general education, elementary education, secondary education, special education, and psychology.
3. Related Elective Courses: 12 hours
   a. Including selected work in such areas as guidance and counseling and/or the various subject areas mentioned in Sections 1 and II.
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 holding a valid certificate in one of the following areas: elementary education, secondary education, K-12 special content area.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 820M</td>
<td>History, Education of the Deaf</td>
<td>2 cr.</td>
</tr>
<tr>
<td>SPED 821M</td>
<td>Teaching of Speech to the Deaf I</td>
<td>2 cr.</td>
</tr>
<tr>
<td>SPED 822M</td>
<td>Teaching Speech to the Deaf II</td>
<td>2 cr.</td>
</tr>
<tr>
<td>SPED 823M</td>
<td>Teaching Language to the Deaf</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 824M</td>
<td>Teaching Language to the Deaf II</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 833M</td>
<td>Hearing Loss and Audiology</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 834M</td>
<td>Hearing Science</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 850V</td>
<td>Sensor in Special Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>FED 801V</td>
<td>Introduction to Research</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 831M</td>
<td>Curriculum Planning for the Disabled</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 871V</td>
<td>Basic Student Teaching</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 875V</td>
<td>Advanced Student Teaching</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 810V</td>
<td>Research Projects</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

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 Studies and Research and the Major advisor.
2. Applicants should hold a valid teaching certificate. Those not holding teaching certificates will be required to complete preparatory courses in teacher education (the number of courses will be taken subject to a 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.

2. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 801V</td>
<td>Introduction to Research</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 804M</td>
<td>Interdisciplinary Approaches to Developmental Disabilities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 860M</td>
<td>Introduction of the Mentally Subnormal Child</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 861M</td>
<td>Curriculum Planning for the Developmentally Disabled</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 864V</td>
<td>Theoretical Approaches for Teaching the Developmentally Disabled Child</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 865V</td>
<td>Methods and Materials for Teaching Mentally Retarded</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 872V</td>
<td>Basic Observation and Student Teaching</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 875V</td>
<td>Advanced Observation and Student Teaching</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 810V</td>
<td>Seminar in Special Education</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 875M</td>
<td>Language Development of Exceptional Children</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

3. One course surveying language development (or equivalent) is required.

4. SPED 875M Language Development of Exceptional Children

5. One course concerning evaluation techniques (or equivalent) is required.

6. SPED 875M Language Development of Exceptional Children

II. Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 832M</td>
<td>Diagnosis of Learning Disabilities</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PSYCH 832M</td>
<td>Testing and Measurement</td>
<td>3 cr.</td>
</tr>
<tr>
<td>PSYCH 810M</td>
<td>Psychological and Educational Testing</td>
<td>3 cr.</td>
</tr>
<tr>
<td>SPED 812M</td>
<td>Reading Diagnosis and Remediation for the Elementary Classroom Teacher</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

3 cr. hours

Entrance Requirements:

1. Admission to the University of Nebraska at Omaha Graduate College requires that the Graduate Record Examination (GRE) must 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 a written plan for certification following the first two steps and during the final enrollment.

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

III. 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 transcript 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 test — This test will be 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, general 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 disabled...
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 911: Problems in Teaching, Reading-Elemenary (3)
  - SPED 912: Problems in Teaching Secondary (3)
  - SPED 860: Interdisciplinary Approaches to Development 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 838V: Linguistic and Cognitive Development (3)
  - Psy 859V: Social and Personality Development (3)
  - FED 890M: Growth and Learning Problems of Disabled (3)

2. Comprehensive Evaluation — At the end of Step I and prior to entering Step II, each student will be given a comprehensive evaluation of Step I experiences. This information may take the form of an essay, a written exam or oral exam or both. Students must attain at least an 80 percent proficiency level before entering 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 dropped from the program.

3. STEP II (16 hours) — Upon successful completion of Step I, students will enter Step II which is the candidacy level. Step II combines both theory and practicum in preparing the student in the analysis of children's learning and emotional behavior and the application of intervention techniques relevant 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 895V: Basic Diagnosis of Learning Deficits (3)
  - SPED 896V: Advanced Diagnosis of Learning Deficits (4)
  - SPED 897V: Clinical Teaching in Learning Disabilities (3)
  - SPED 881M: Classroom Techniques for Behavior Control (3)

- Electives:
  - SPED 862M: Curriculum Planning for the Disabled (3)
  - SPED 813V: Diagnostic and Remedial Instruction in Reading (3)
  - SPED 807V: Diagnostic and Remedial Techniques for Early Childhood (3)
  - Psy 831M: Psychodiagnostic and Educational Testing (3)
  - Coun 831V: Child Assessment in Elementary School Guidance (3)
  - Edu 819V: Diagnostic and Corrective Instruction (3)
  - Edu 843V: Introduction to Curriculum Planning-Elemenary (3)
  - Edu 829M: 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

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

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

- SPED 870V: Seminar in Special Education (3)
- SPED 873: Advanced Observation and Student Teaching in Special Education (3)
- SPED 812: Basic Observation and Student Teaching in Special Education (3)

Master of Science: Teaching the Emotionally Disturbed**

**The Master of Science degree with a major in teaching the emotionally disturbed includes a core of courses that lead to certification. Prospective candidates are encouraged to consult and seek advice from an advisor or the Department of Special Education regarding this area.
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

Studio Art

831M Advanced Sculpture (3) Advanced work in area of student's choice with facilities for oxy-acetylene 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 the instructor.

851M Advanced Techniques in Printmaking (3) Intaglio, lithography, collagrophy, 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.

831V 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 materials. Prereq: Permission and 12 credit hours of painting.

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

Biology

822J Micro Techniques (3) A course in the techniques of fixation, dehydration, staining, clearing 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 nonliving environment. Prereq: For 344, Biology 145 and 175, junior-senior. For 384, 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 bryophytes. Prereq: For 344, Biology 145, junior-senior. For 844, 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.


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

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

384/884J Embryology (4) A study of the principles of development in multicellular organisms, including current concepts derived from experimental embryology, with emphasis on vertebrate morphogenesis. Prereq: General zoology, Biology 175, and a course in vertebrate anatomy.

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

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

418/818M Histology (4) A study of the physical, chemical, and histochemical 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.

422/822M 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 422, Biology 214. Junior-senior. Lecture and discussion only. For 822M, 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.
60 UNIVERSITY OF NEBRASKA AT OMAHA

482m. Biology 175 and Psychology 101 or permission of the instructor. Lecture only. (Same as Psychology 427/427m).

483/483M Botany (2) A course in the identification, classification, ecology, and distribution of flowering plants, their relationships to humans, and their diversity. Prereq: For 483, Biology 544 or permission of the instructor. Junior-senior. For 483m, Biology 344 or permission of the instructor.

484/484M Ichthyology (3) A study of the biology of fish, including their evolution, anatomy, physiology, ecology, distribution, and identification with emphasis on North American freshwater fishes. Prereq: For 484, Biology 175. Junior-senior. For 484m, Biology 454 or permission of the instructor.

485/485M Mycology (3) A lecture and laboratory course in the collection, cultivation, identification, and life cycle of fungi. Prereq: For 485, Biology 145. Junior-senior. For 485m, Biology 549 or permission of the instructor.

486/486M Plant Physiology (4) A study of plant processes and functions with emphasis on cell structure and development. Prereq: Biology 175 and permission of the instructor. Junior-senior. For 486m, Biology 550, organic chemistry, or permission of the instructor.

487/487M Vertebrate Zoology (4) A study of the general biology of the subphylum vertebrata including the major groups in environmental biology, and ecology of vertebrate representatives. Prereq: For 487, Biology 175. Junior-senior. For 487m, Biology 175.

488/488M Herpetology (4) The biology of amphibians and reptiles with emphasis on systematics and the natural history of the invertebrate animals. Prereq: For 488, Biology 175. Junior-senior. For 488m, Biology 558 or permission of the instructor.

489/489M Mammalogy (4) The biology of mammals emphasizing their anatomy, physiology, reproduction, genetics and ecology with emphasis on free-living groups. Prereq: Biology 175, general zoology.

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

494/494M Entomology (4) The study of insects, their classification, morphology, physiology, behavior, life history, ecology, and evolution. Prereq: For 494, Biology 175. Junior-senior. For 494m, Biology 560 or permission of the instructor.

496/496M General Botany (4) An introduction to the general biology of plants, including their anatomy, physiology, behavior, classification, distribution and emphasis on North American groups. Prereq: For 496, Biology 175. Junior-senior. For 496m, Biology 562 or permission of the instructor.

498/498M Microbiology (3) The study of the microscopic life forms with emphasis on the basic principles of microbiology and nutrition. Prereq: For 498, Biology 175 or permission of the instructor.

501 Seminar in Biology (1) A seminar in current research in any of the divisions of biology. Graduate students in biology must complete this course twice for credit. Prereq: Graduate standing.

502 Problems in Biology (2) Research investigation in various areas of biology. Prereq: Satisfactory standing in modern quantitatively-oriented science courses and the approval of the instructor. Necessary to pursue adequately the area of interest involved.

504 Current Topics in Botany (2) Survey of recent literature in one or more of the following areas: biochemistry, biogeography, biochemistry, botany, ecology, physiology, systematics, and taxonomy. Prereq: Grad. standing in botany or permission of instructor.

505 Current Topics in Microbiology (2) Survey of recent literature in one or more of the following areas of microbiology: morphology and development of microorganisms, physiology, vertebrate anatomy, and physiology or permission of the instructor. Junior-senior. For 505m, biology and chemistry or permission of the instructor.

506 Current Topics in Ecology (3) A comprehensive study of animal functional emphasizing mechanisms of regulation and control. Prereq: For 506, Biology 175, vertebrate anatomy, organic chemistry, and physiology or permission of instructor. Junior-senior. For 506m, Biology 344 or permission of instructor.

507 Current Topics in Zoology (2) Survey of the recent literature in one or more of the following areas of zoology: taxonomy, morphological analysis, ecology, physiology, behavior, zoogeography, and systematics. Prereq: Graduate standing and permission.

517 Environmental Biology (3) A study of the recent advances in understanding the components of the environment, their interactions, and the concepts of concentrating on the areas of population dynamics, interactions between species and ecosystems, and the application of these concepts to the management of natural resources. Prereq: For 517, Biology 175.

540/540M Taxonomy of Vascular Plants (4) A study of the classification, distribution, and relationships of plants with emphasis on the development of their environments. Prereq: For 540, Biology 175. Junior-senior. For 540m, Biology 572 or permission of the instructor.

543/543M Oecology (3) An introduction to the study of animal and plant communities in a large-scale. Prereq: For 543, Biology 175. Junior-senior. For 543m, Biology 574 or permission of the instructor.


564 Experimental Genetics (3) Lecture and laboratory involving techniques and methods for manipulating and altering the genetic make-up of organisms. Prereq: For 564, Biology 214. Graduate standing.

575 Experimental Clinical Therapeutics (3) A study of the effects of new therapeutic agents on the human body. Prereq: For 575, Biology 175. Junior-senior. For 575m, Biology 578 or permission of the instructor.

599 Topics (1-6) Independent research projects under the supervision of a faculty member.

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Ii, and long-range planning; and for

Prereq: Econ 201 or Econ 800 J.

for non-routine decisions, for interrelated in public, private, and governmental environments in which decision-making

The Environment of Personnel Administration (3) Extensive treatment of the classical application in formulation of policies for different types of investors. Prereq: BF 325 or BA 813J.

Security Analysis (3) A study of the techniques of analysis of marketable securities. Statistical and financial considerations are examined as well as broader bases for appraisal of values of securities. Prereq: BF 325 or BA 813J.

Security Analysis in Investment Management (3) The security analysis aspect of the course is designed to give the student a practical perspective of the problems of investing and the requirements of the investor in making decisions for personal investment and for corporate securities. Prereq: BA 830V and BA 812V.

Controlling (3) An analysis of the conceptual and technical techniques of the controller in the formulation or policies and procedures that relate to personnel administration, marketing, and social and economic development. Prereq: RE 344, RE 346, and three additional courses in business administration.

Land, Air, and Water (3) Including air, water, and land systems, air and water pollution. For undergraduates in the physical sciences.

The Environment of Personnel Administration (3) Extensive treatment of the classical application in formulation of policies for different types of investors. Prereq: BF 325 or BA 813J.

Security Analysis (3) A study of the techniques of analysis of marketable securities. Statistical and financial considerations are examined as well as broader bases for appraisal of values of securities. Prereq: BF 325 or BA 813J.

Security Analysis in Investment Management (3) The security analysis aspect of the course is designed to give the student a practical perspective of the problems of investing and the requirements of the investor in making decisions for personal investment and for corporate securities. Prereq: BA 830V and BA 812V.

Controlling (3) An analysis of the conceptual and technical techniques of the controller in the formulation or policies and procedures that relate to personnel administration, marketing, and social and economic development. Prereq: RE 344, RE 346, and three additional courses in business administration.

Civil Engineering

466/866M Environmental Quality and Control - Land, Air, and Water (3) Application of the principles of ecology, engineering, and planning for the control and management of the environment (Land, Air, and Water). Including air and water pollution. For undergraduates in the physical sciences.

466/866M Transportation Engineering II (3) Introduction to the principles of model transportation projects and the characteristics of activities in the finance and control of transportation. Basic rural and urban transportation techniques and their effect on land use, the environment and social and economic development. Includes economic, operational and control characteristics of existing and future transportation modes. Prereq: For 360, junior standing in engineering or permission of the instructor. For 866M, graduate standing or permission of the instructor. For 866M, graduate standing or permission of the instructor.

466/866M Environmental Quality and Control - Land, Air, and Water (3) Application of the principles of ecology, engineering, and planning for the control and management of the environment (Land, Air, and Water). Including air and water pollution. For undergraduates in the physical sciences.

466/866M Transportation Engineering II (3) Introduction to the principles of model transportation projects and the characteristics of activities in the finance and control of transportation. Basic rural and urban transportation techniques and their effect on land use, the environment and social and economic development. Includes economic, operational and control characteristics of existing and future transportation modes. Prereq: For 360, junior standing in engineering or permission of the instructor. For 866M, graduate standing or permission of the instructor. For 866M, graduate standing or permission of the instructor.

429/829M Applications of Microbiology to Sanitary Engineering (3) Applications of microbiology related to sewage treatment and the bacteriological examination of water and wastewater systems. Prereq: CE 226. Prearranged.

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: Graduating senior and Civil Engineering 334.

836M Foundation Engineering (3) Subsoil exploration, characterization and selection of foundation systems: determination of allowable bearing pressures from laboratory and field data; proportioning shallow foundations; pile driving analysis; control of ground water. Prereq: Graduating senior, Civil Engineering 334; or equivalent.

414/841M Structural Analysis I (3) Analysis of statically determinate structures, including columns; stresses and deformations in frame members; matrix methods. Prereq: CE 340. Prearranged.

414/844M Steel Design I (3) An introductory course involving the application of design principles of mechanics of materials and the code provisions of structural steel members in buildings. Prereq: For 444, Civil Engineering 340 or permission of the instructor. For 844, prearranged.


447/847M Reinforced Concrete II (3) The use of reinforced concrete design concepts in spe-
cial applications including columns and foot-
ings, and the study of additional design concepts including deflections, prestressing and torsion. Prereq: For 447, prearranged. Prereq: For 847M, Civil Engineering 343 and graduate standing or permission of the instructor.

448/848M Plastic Analysis I (3) Application of the basic principles of plastic analysis to frame structures; the effects of multistory buildings and moment distribution and design and testing. Prereq: For 448, prearranged. Prereq: For 848M, Civil Engineering 343 and graduate standing or permission of the instructor.

462/862M Airport Planning and Design (3) Principles in planning, locating and designing of airports; airport financing, site selection and estimation of aerodrominal, air terminal and aircraft characteristics are discussed. Environmental effects of airports in relation to such things as noise, glare and air pollutants are studied. Prereq: For 462, upper class standing and permission of the instructor. For 862M, graduate standing and permission of the instructor.

463/863M Transportation Geometrics (3) Functional design of transportation systems with emphasis on optimization techniques for evaluating alternatives in water resources development, application of air pollution, flood control, hydroelectric power, drainage, water quality and environmental assessment. Prereq: For 452, Civil Engineering 351 or Civil Engineering 457 or equivalent. Prereq: For 863M, graduate standing and permission of the instructor.

452/852M Water Resources Development (3) Theory and application of systems engineering with emphasis on optimization techniques for evaluating alternatives in water resources development, application of air pollution, flood control, hydroelectric power, drainage, water quality and environmental assessment. Prereq: For 452, Civil Engineering 351 or Civil Engineering 457 or equivalent. Prereq: For 852M, graduate standing and permission of the instructor.

454/864M Traffic Engineering (3) Characteristics of traffic flow as influenced by the interaction of the driver, vehicle and road-
way. Volume, speed, delay, pedestrian and parking. Traffic laws and ordinances, highway capacity, accident investigations, roadway illumination and traffic control devices. Prereq: For 454, upper class standing and permission of the instructor. For 864M, graduate standing and permission of the instructor.

460/860M Advanced Hydraulics (3) Advanced topics in hydraulics with applications of mechanics of solids, liquids and rheology and engineering eco-
omics to the basic properties of hydraulic structures. Continuity, momentum, energy principles are applied to specific real world hydraulic engineering problems. Prereq: Graduate standing and permission of the instructor.

456/856M Advanced Hydrology (3) Advanced topics in hydrology including parametric and stochastic processes and systems analysis of hy-
drologic problems with particular emphasis on the design and planning of large irrigation and flood control systems. Prereq: For 456, Civil Engineering 351 or equivalent. Prereq: For 856M, graduate standing and permission of the instructor.
805U Theories and Studies in Occupational Educational Information (3) Advanced study of theories and research related to vocational development and student majoring in the counseling and use of occupational and educational information. Prereq: COUN 222V.

806U Advanced Social Work Departmental Modalities (3) An examination of alcoholism treatment modalities. Special attention is given to comparison with regard to theoretical perspectives, techniques, and effectiveness. Prereq: Graduate standing in Counseling and Guidance, Social Work, or Psychology. Graduate students in other disciplines with prior training or experience in counseling will be admitted with permission.

810U Advanced Studies in Counseling (2-3) An intensive study of selected counseling theories, methods and research. Prereq: COUN 220V or 825V or 835V.

810V Research Project in Counseling and Guidance (3) A group study project and analysis of specific problems in counseling and guidance. Prereq: Permission of instructor.

812U Counseling With Parents (3) A course emphasizing techniques used in working with families. Prereq: COUN 225V or COUN 332V or permission of instructor.

815U Advanced Counseling Practicum (2-3) Continuation of practice in counseling. Prereq: COUN 225V or 836V and permission of department.

815V The Student and Student Personnel Work in Higher Education (3) An overview of characteristics of college students and their interaction with college and surrounding environments. Emphasis and impact of student personnel work is considered as it affects personality growth and development. Prereq: FED 802V.

818U Guidance and Counseling Seminar (3) The consideration of topics having current relevance to guidance and counseling. Prereq: Permission of department.

819U Research Project in Counseling and Guidance (2-3) Research in the area of guidance and counseling. Prereq: Permission of department.

820V Introduction to Counseling Theories (3) Study of contemporary theories of counseling, the counseling process and methods. Prereq: COUN 890M.

821V Organization and Administration of Guidance Programs (3) A study of organizational patterns and administrative practices in guidance and counseling programs. Prereq: COUN 890M or 892M.

822V Occupational and Educational Information (3) A study of basic concepts of occupational and educational information. The process of vocational choice. Prereq: Graduate.

824V Counseling Practicum (3) The process of establishing a counseling relationship, utilizing different approaches appropriate to the counselor, and development of counseling skills. Prereq: COUN 820V, 822V, or 834V.

825V Counseling in Social and Cultural Disadvantaged Youth (2-3) Counseling experience under the supervision of a practicum instructor of the university. Prereq: COUN 824V and permission of department.

826V Guidance Internship (2-3) Field experience under the supervision of a qualified counselor and a guidance professor of the university. Prereq: COUN 824V and permission of department.

827V Group Techniques in Guidance (2-3) The group process with emphasis on the experiential approach. Prereq: COUN 890M and permission of instructor.

828V Community Involvement for Urban Counselors (3) An experiential involvement in the employment status of the urban disadvantaged. The student will have extended field experiences in the urban area as well as seminars on specific problems. Prereq: Permission of instructor.

831V Child Assessment in Elementary School Guidance (3) Methods and techniques for identification of the elementary child in a unique individual. Prereq: COUN 890M and FED 801V.

832V Counseling Elementary School Children (3) A study of counseling procedures applicable in counseling young children. Prereq: COUN 825V, 831V.

833V Elementary School Counseling Practicum (4) Counseling in the elementary setting under the supervision of an instructor of the university. Prereq: COUN 832V and permission of department.

834V Elementary School Counseling Internship (6) Field experience in an elementary counseling program under the supervision of a counselor and professor and appropriate in-school personnel. Prereq: COUN 832V and permission of department.

837V Group Counseling Theory and Practice (3) An course designed primarily for graduate students with a combination of theory and experiences necessary to the understanding of effective leadership skills involved in the group counseling process. Prereq: COUN 890M, COUN 820V, COUN 831V, and COUN 827V.

839V Guidance Services and The Disadvantaged Youth (3) A study of the problems and techniques of the guidance services and the disadvantaged youth. Prereq: COUN 820V and 834V.

845V Community Mental Health Internship (6) This course is designed to provide practical work experience under supervision in various areas within student personnel services. Prereq: Permission of instructor.

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

890N Principles of Guidance (3) The introductory course in the field of counseling and guidance. A study of selected underlying guidance and counseling. (Non-counseling majors are encouraged to take this course for graduate psychology students.) Prereq: COUN 892M. (Guidance in the elementary school.)

890V Criminal Justice and Aging (1) Course designed to increase students' self-awareness of personal aging situations and to develop strategies related to aging and the aged. Prereq: COUN 890M or permission of instructor.

897V Thesis (1-6) Independent research project written under the supervision of an adviser. Prereq: Permission.

Criminal Justice

810V Criminal Justice Planning and Innovation (3) A review of the literature in social psychology, public administration and sociology which relates to the effectiveness of alternate strategies of promoting change in criminal justice agencies, institutions, organizations and individual attitudes and values. Prereq: Permission of instructor.

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

824V Comparative Law Enforcement Systems (3) A critical and historical analysis of modern law enforcement systems, especially the USA from historical development, perspective and policies. Prereq: CJ 113V.

844V Seminar in Criminal Justice Education (3) An analysis of roles and responsibilities of the professional in the criminal justice field. Prereq: Permission of instructor.

845V Seminar in Criminal Justice Research (3) An analysis of the research processes in the field of criminal justice. Prereq: Permission of instructor.

857V Seminar in Disenfranchisement Prevention, Control and Correction (3) An inquiry into social ramifications of the entire juvenile disenfranchisement process including labeling, detention, incarceration and tolerance. Prereq: Permission of instructor.

860V Seminar in Crime Prevention (3) An inquiry into the most significant areas of criminal justice. Historical analysis of criminal justice and future prevention and methodology are examined in light of current American social thought. Prereq: None.

871V Special Problems in Criminal Justice (3) A course devoted to an exploration and analysis of contemporary special topics and techniques within the broad spectrum of law enforcement and corrections. Prereq: CJ 24 graduate student and permission of instructor.

872V Criminal Justice Research Theory and Methodology (3) Research methodologies in criminal justice with an emphasis on the social sciences as applicable to criminal justice; preparation of research design, conceptual models, and the development of individual research papers. Prereq: Permission of instructor.

880V Independent Study (1-3) Individual projects in research, literature, review, or creative production which may or may not be a part of course work. The work will be supervised and evaluated by departmentally graduate faculty members. Prereq: Graduate hours in major department and permission of instructor.

899V Master's Thesis (1-6)

Curriculum and Instruction

886M Audio-Visual Materials in Education (3) An introduction to the theory, history, organization, selection, and utilization of audio-visual instructional technology for instruction, emphasizing the place of educational media in the learning/teaching process. (F,S,Su)

887M Preparation of Instructional Materials (3) A basic course in the production of inexpensive audio-visual materials for the classroom. Graphic, photographic, and mechanical methods of presentation are considered, including such instructional materials as slides, transparencies, still pictures, video presentations, and exhibits. (F,S,Su)
Drastic Arts

801M-882M Advanced Projects in Dramatic Arts (1-3) Special projects combined study and practical work. Prereq.: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

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

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

831M-832M Acting: Historical periods and forms 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.

841M Directing: Rehearsal and Performance (3) A practical in play selection, analysis, casting, directing and performing. Prereq.: DA 101, 206, 263, 331 or permission of the instructor.

851M Costume Design (Each 3) An introduction to the fundamentals of stage design, including line, silhouette, color, volume, and line of action. Emphasis on the visual presentation of designs, including costuming of the performance, rendering techniques. Prereq.: DA 206-207, 351, Art 110, 121.


867M Stage and TV Lighting (3) Characteristic and use of light and color and their application to the television and theatre: elementary electrical circuits and systems; reflectors, lamps, control systems. Prereq.: DA 101, 206, 207, 263, 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.

843V Seminar in Play Direction (3) An indepth study of the principles of graduate students in implementing regular courses: individual research projects, combined study and practical work. Prereq.: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

855V Technical Theatre Projects (3) Research and dialogue in the aesthetic and physical results of the relationships between dramatic theatre production and design and lighting from historical and contemporary points of view. Prereq.: DA 101, 461, 467, 471.

819M Dramatic Theory and Criticism (3) For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present. Prereq.: DA 101 or permission of instructor.

892V Seminar in Contemporary Theatre Aesthetics (3) Research and dialogue in the aesthetic and technical developments in the contemporary theatre. Emphasis on the sources, background, and context of production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical pathways being explored. Prereq.: Econ 322.

859V Thesis (1-3) Independent research project written under the supervision of an advisor.

Economics

805V Economic Education (I) (3) Open to any graduate student with no previous college work in economics. Not open to majors in economics. A study and examination of economic principles and how they apply to the classroom teacher's presentation. This is the second of two courses designed to familiarize the school teacher (K-12) with sufficient background and understanding in order to aid in the recognition of economic issues and the teaching of economic concepts and principles.

865V Economic Education (II) (3) A continuation of Economics I (Econ 805V). Prereq.: Permission of instructor.

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

116V Seminar in Labor Economics (3) A study and investigation of current developments and issues in labor relations, wages, and employment policies. Local labor unions, combined with a study of current issues in labor economics. Prereq.: Six hours of credit in graduate labor economics or permission.

120V Seminar in Micro Theory (3) This seminar develops modern micro-economic theory with emphasis on utility, 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.

121V Seminar in Macro Theory (3) This seminar deals with modern macro-economic theory with emphasis on utility, production, and employment functions and cost, price and non-price policy of the firms, market and multi-market equilibrium. Emphasizes theoretical methods and techniques as well as specific content.

815M Competition and Monopoly in American Industry (3) An appraisal of the role of competition principles in the American economy. An examination of market structures, conduct, and economic performance in a variety of industries. Prereq.: Econ 320.

821V Managerial Economics (Same As BA 110) (3) An indepth study of the principles of managerial economics and strategy in business. Economic analysis of the business environment with emphasis on microeconomic theory of the firm under conditions of uncertainty. Prereq.: Gradate standing in the college of business administration.

822V Seminar in Micro Theory (3) A study of the evolution and establishment of the Keynesian model of macroeconomics. The text used will be the latest and most relevant edition of the text. Prereq.: DA 206 or permission of instructor.

826V Seminar in Macro Theory (3) A study of the evolution and establishment of the Keynesian model of macroeconomics. The text used will be the latest and most relevant edition of the text. Prereq.: DA 206 or permission of instructor.

851M Seminar in Advanced Micro Theory (3) A study of the evolution and establishment of the Keynesian model of macroeconomics. The text used will be the latest and most relevant edition of the text. Prereq.: DA 206 or permission of instructor.

852V Seminar in Advanced Micro Theory (3) A study of the evolution and establishment of the Keynesian model of macroeconomics. The text used will be the latest and most relevant edition of the text. Prereq.: DA 206 or permission of instructor.

856V Seminar in International Economics (3) A study of current research techniques in business and economics. Prereq.: Permission of instructor.

858V Econometrics (3) The study of the underlying assumptions, techniques, and applications of multiple and single equation regression analysis in economics. Prereq.: Permission of instructor.

859V Seminar in Money and Banking (3) Original research and writing of papers on basic problems of money and banking. Required of all economics majors. Prereq.: Six hours in upper division coursework in economics or permission of the instructor.

865V Seminar in International Economics (3) Course is designed to introduce students to international economic theory, policy and institutions. Prereq.: Econ 365 or 466 or permission of instructor.

870V Independent Study in Topics On Urbanism (3) Independent study in research on an individual basis under faculty supervision in topics pertaining to urbanism. May be repeated up to a maximum of three hours. (Also listed under geography, political science and sociology.) Prereq.: Graduate standing in one of the social sciences plus 6 hours of graduate work in one of the social sciences.

885V Seminar in Urban Economics (3) An examination of the theoretical bases for the analysis of urban economic problems with emphasis upon the policy alternatives available toward their possible solution. (Also listed under geography and sociology.) Prereq.: At least 6 hours of upper division course work in economics or permission of the instructor.

887V Seminar in Regional Economics (3) An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and influencing the economic problems of a regional nature. In addition, policy alternatives, decision making, and measurement techniques are examined. (Also listed under geography.) Prereq.: At least 6 hours of upper division course work in economics or permission of the instructor.

892V-893V Independent Study (Each 1-3) Guided independent study and research under tutorial supervision. Prereq.: Graduate standing in economics and permission of the instructor.

895V-896V Urban-Regional Research (Each 3) For masters of science degree candidates. Prereq.: Urban regional economics only. Consists of a study in urban economic problems, employing research techniques. Students do independent research consulting with advisor, and submitting completed reports to a departmental committee. Prereq.: Permission of graduate adviser.

899V Thesis (1-6) An independent research project, written under the supervision of a graduate adviser in the department of economics. Approval of the topic and the design of the project is required by the student's departmental committee. Prereq.: Permission of graduate adviser.

940 Seminar in American Economic History to 1865 (See History) (I) (3)

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

Economic Administration and Supervision

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

900V Special Studies in Educational Administration and Supervision (3) Series of intensive courses especially designed for educational administrators and supervisors—present seminars, workshops or similar seminars or workshops, according to purpose.

901V Advanced Seminar in Educational Administration (3) Participation is limited to inservice educational administrators who have been admitted to candidacy for the specialist in education degree with a major in school administration. Emphasis will be placed upon the theory and practical aspects of school administration. Prereq.: Admission to education administration specialist program.

905V 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 ...
810V Research Project in Educational Administration (1-3) Individual or group study and analysis of specific problems in educational administration and supervision.

911 Field Project in Educational Administration (3) An individualized program in the area of educational administration, and employs the techniques of research. Prerequisite: Admission to educational administration, and approval of department chairman.

825V Data Processing in Educational Administration (3) A study of systems as planning bases for education and the role of electronic data processing in implementation.

830V Seminar in Educational Administration (3) A study of educational problems and their relationship to and implications for educational administration. Prerequisite: 24 hours of graduate study and approval of written application.

840V Practicum in Educational Administration and Supervision (3) Designed to provide guides of study and practice in elementary, secondary, and higher education, and supervision as the interests and needs of the student require. Prerequisite: 24 hours of graduate study and approval of written application.

841V Practicum in Educational Administration and Supervision (3) Designed to give the school administrator competence in organizing the maintenance and supervision of the school plant; includes long range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care. Prerequisite: FED 80V and EdAd 835V.

851V Organization and Administration of The Physical Plant (3) Designed to give the school administrator competence in organizing the maintenance and supervision of the school plant; includes long range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care. Prerequisite: FED 80V 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 used in those administrative positions where the administrator who recognize the need to increase their knowledge of interpersonal and group relationships. Prerequisite: FED 80V and EdAd 835V.

881V Administration and Staff Personnel (3) This course deals with the central office staff and labor, teacher evaluation, promotion, tenure, retirement, professional organizations and their functions, and the techniques of democratic administration. Prerequisite: FED 80V and EdAd 835V.

FINANCIAL AND PERSONNEL PROBLEMS OF ADULT EDUCATION (3) An introduction to the study of adult education as a major field of educational endeavor. The course surveys the major forms and problems of adult education and the forensics agencies involved in the field. Prerequisite: FED 80V and EdAd 835V.

872V Administration and Supervision of Vocational Education (3) Basic concepts for administration and supervision of vocational education as they apply to the school system, the state, the cooperative and private sectors, and the responsibilities of the federal and state agencies. Prerequisite: FED 80V and EdAd 835V.

873V Urban School Administration (3) This course is designed to be a functional and practical approach to urban school administration with its problems and responsibilities, with emphasis placed on the techniques of democratic administration. Prerequisite: FED 80V and EdAd 835V.

874M Administration of The Instructional Material (3) A course designed for students who wish to prepare themselves for the administration of an educational media program within an urban school system. Prerequisite: FED 80V and EdAd 835V.

875M Administration and Supervision in Secondary Schools (3) The nature, principles and functions of administrative and supervisory practices as they relate to the elementary school. Prerequisite: FED 80V and EdAd 835V.

876M Administration and Supervision in Secondary Schools (3) This course is designed to explore the problems of administrative and supervisory practices as they relate to the secondary school. Prerequisite: FED 80V and EdAd 835V.

877M Administration of The Instructional Material (3) A course designed for students who wish to prepare themselves for the administration of an educational media program within an urban school system. Prerequisite: FED 80V and EdAd 835V.

878M Urban School Administration (3) This course is designed to be a functional and practical approach to urban school administration with its problems and responsibilities, with emphasis placed on the techniques of democratic administration. Prerequisite: FED 80V and EdAd 835V.

879M Administration of The Instructional Material (3) A course designed for students who wish to prepare themselves for the administration of an educational media program within an urban school system. Prerequisite: FED 80V and EdAd 835V.

880M Administration of The Instructional Material (3) A course designed for students who wish to prepare themselves for the administration of an educational media program within an urban school system. Prerequisite: FED 80V and EdAd 835V.

881V Administration of Higher Education (3) A study of the organizational structure of higher education, with emphasis on the principles involved in organizing the curriculum, the accountability of the activities of the student body, the faculty and staff, personnel policies, financing the program, operating the buildings and grounds and conducting the public relations program. Prerequisite: Admission to graduate study.

894M School Law (3) This course is concerned with the law related to schools. Topics include certification, contracts, conformance, curriculum, admission, pupil control, and transportation. Each is approached through study of most recent court decisions. Prerequisites: FED 80V and EdAd 835V.
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 at the national and international levels. Prerequisite: Admission to teacher education, FED 205, 208, ELED 229, 58 hours, required grade point average.

428/828M Patterns of Parental and School Care (3) Patterns of parent-teacher-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.)

480 Special Studies (3) A series of intensive courses designed for teachers in service - scheduled as regular seminars, or workshops, according to need.

491 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.

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

493 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.

807V Improvement of Instruction in Elementary Science (3) This course is designed for graduate students in education who wish to become better informed about the recently developed program for instruction in science, mathematics, philosophy, and emphasis in instruction, which are characteristic of these programmes for teaching individually with change, i.e., a forum for action.

831V Improvement of Instruction in Elementary Mathematics (3) An examination of the philosophy, content, and methods of modern mathematics programs for the elementary school. The methods and backgrounds of the studies conducted during the semester are given special consideration.

832V 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.

840V Innovations and Trends in Elementary Education (3) Designed as an advanced study for the purpose of exploring current and developments within the various subject matter areas of the elementary school. Prerequisite: FED 801V.

843V 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 reorganization. Prerequisite: FED 801V.

844 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.

845 Seminar in Supervision of Student Teachers-Elementary (3) Designed for experienced teachers who are or may be serving as cooperating teachers, and who have taught at least one second year at the elementary level, its aims, procedures, objectives, trends and developments. Prerequisite: 2 years of teaching experience.

870V Practicum in Elementary and Early Childhood Education (3-4) 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-fourth of a full-time teaching in an elementary school under the supervision of graduate faculty in the department or in early childhood education. (Half-time teaching will grant 3 hours of credit.) Prerequisite: Permission of advisor.

871V Advanced Practicum in Elementary Education (3) Advanced practicum will demand an increased responsibility of the student for the 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 for candidates 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. (Same as French 415/815M and German 415/ 815M.)

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

832M Middle English Literature (3) A survey of the principal works in English, excluding those of Chaucer, from 1100 to 1300.

842/843M Literature of The Roman Period (3) Poetry and prose (excluding the novel) of England from 547 to 1000. Prerequisite: English 232 or permission.

855M Twentieth-century English Literature (3) Readings in English literature from Shaw to Years to the present.

868M Linguistic Variation (3) The methods and results of linguistic geography, sociolinguistic 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 importance of different cultural centres 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 II.

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, English as a first 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 writers of the nineteenth and twentieth centuries.

498M 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 American drama from the early part of the nineteenth century to the present.

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

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

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

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

881M Literature of The Romantic Period (3) Poetry and prose (excluding the novel) of England from 1798 to 1800. Prerequisite: English 232 or permission.

882/883M Literature of The Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1900. Prerequisite: English 232 or permission.
804V Seminar: Literary Criticism (3) Critical examination of ten revolutions in English literature. Prereq: Graduate standing or permission of the instructor. For 890M, German 303 or permission of the instructor.

806V Seminar: American Literature (3) Individual research and seminar group discussion relating to a general topic in American literature. Prereq: Graduate standing or permission of the instructor. For 890M, German 303 or permission of the instructor.

809V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English writers. Prereq: Graduate standing or permission of the chairperson of the department of English.

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

811V Seminar in English Renaissance (1) A seminar in a few significant literary figures of the 16th century. Prereq: Graduate standing in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or folkloric in modern or fol
42/820M Spanish American Novel (3) Study of representative novels of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prereq: Spanish 321 or 322 or permission of the instructor.

42/824M Generation of 1898 (3) Examination of the ideology, philosophy, and literary techniques of the generation of 1898; the stress of nationalism; the influence of Spanish, French, and German literature. Prereq: Spanish 321 or permission of the instructor.

43/835M Spanish American Short Story (3) Representative stories of the nineteenth and twentieth centuries from the Romanic countries to the present production. Prereq: Spanish 321 and 322 or permission of the instructor.

43/855M Modern Drama of Spain (3) Ideological, techniques, and influences of the major playwrights of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

43/856M Modern Novel of Spain (3) Analytical study of the representative Spanish novelists of the last century and a half: Cela, Allende, García Márquez. Prereq: Spanish 318 or permission of the instructor.

43/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language: includes language history, theory, variation, and change; stress on semantics, lexicography, and foreign language teaching. Prereq: For 458, junior standing or permission of the instructor.

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

890E Pre-Seminar (3) Detailed study of major phases of Spanish, Spanish American literature, language or culture. Prereq: Permission of the instructor.

General Engineering


46/895M Advanced Fluid Mechanics (3) Ideal and real fluid flows; Eulerian and Langrangian equations of motion; potential theory; conformal transformations; turbulent flow; boundary layers. Prereq: Math 330 or permission of the instructor.

84/866M Evolutionary Experimental Analysis (3) Investigation of the basic theorem and techniques associated with the study of strain, displacement, and life cycle fatigue. Prereq: GE 493 or permission of the instructor.


89/917M Stress and Strain (3) The principles and illustration of dimensions and methods, similarity and model testing, dissimilar models. Applications to structures, fluid flow, heat transfer, electromagnetic theory, acoustics and wave propagation. Prereq: Math 225, and similar. Prereq: Permission.

89/918M 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
40/821M Conservation of Natural Resources (3) A study of physical, cultural, and human resources of the United States. Includes the history of conservation in the U.S., the philosophy behind the movement, current conservation practices, and the future of our natural resources. Prereq: For 425, GeoG 106 or 107. Junior standing. For 825M, GeoG 107 or 108.

42/825M Landform Studies II (Geomorphology I) (3) Primarily a lecture course with quantiative work involved. Emphasis on understanding the theoretical aspects of processes and conditions with which produce landforms. Should be regarded as first half of a two-semester landform studies course. Emphasis of alpine, desert, and fluvial environments. Prereq: For 425 GeoG 106 or 107. Junior standing. For 825M, GeoG 107 or 108.


43/821M Climatology (3) Will include basic meteorological and atmospheric processes; cloud classification; analysis of selected climatic regions; and effect of climatic phenomena on the world's cultural and physical landscape in general. Prereq: For 432 GeoG 106. Corequisite, course or permission of instructor, and junior standing. For 825M, GeoG 106, a meteorology course or permission of instructor.

45/853M Historical Geography of The United States (3) A course dealing with the geography of the past. Emphasis is placed on the sequent occurrence of regions in the United States or the geography of the major divisions of the United States at selected times in the past. Prereq: For 45/853M Historical Geography of The United States (3) A course dealing with the geography of the past. Emphasis is placed on the sequent occurrence of regions in the United States or the geography of the major divisions of the United States at selected times in the past. Prereq: For
875 Seminar in Regional Geography (3-6) Maximum 3 per semester, except in foreign country field work.
991-993 General Seminar (1) Required. Review of current research in the community identifying international and national associations and initial thesis proposal.

Gerontology
410/810M Educational Gerontologist (3) An introduction to educational gerontology in offering a course of study in the aging process. Topics include the significance of aging, the social aspects of aging, and the economic and policy implications of population aging. Prereq: Permission of instructor.

411/811M Applied Social Gerontology (3) An introduction to social gerontology with a special emphasis upon the importance of social policy in the development of social gerontology. Prereq: Permission of instructor. (Same as Sociology 411)

420/820M Issues in Aging (3) This course is intended for students in Gerontology and in other fields who are interested in the life cycle. Appraising significant aspects of the aging process will be examined. Prereq: 9 hours of gerontology or permission.

446/846M Aging and Human Behavior (3) The course examines different kinds of behavior and the changes which may occur in the aging process. Applications of various personality theories concerning contemporary aging will be examined. Prereq: Permission of instructor.

448/848M Comparative Gerontology (3) A course of study of aging around the world by a comparative method in a cross-cultural and cross-national framework. An exploration of some practical experiences and developments in Europe, Asia, and Africa will be examined. Prereq: Three hours gerontology or permission.

455/855H Health Aspects of Aging (3) The study of psychological aspects of aging, with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: Same as HED 455.

480/880M Geopolitical Aspects of Aging (3) An examination of the relationship between the physical and social sciences and human aging and the implications of this relationship to society. Prereq: Permission of instructor.

570M Programs and Services for the Aging (3) This course is designed to give the student an historical overview of programs for the elderly; examine the national policy positions as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. Prereq: Permission of instructor.

680M Health Aspects of Aging (3) The study of medical aspects of aging, 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.

690 Thesis (1-9) Independent research project written under the supervision of an advisor. Prereq: Permission of the instructor.

Health, Physical Education and Recreation
General HPER
800V Special Studies (1-3) A series of intensive courses offered in the regular seminars, workshops, according to need. Prereq: Permission of department.

830V Research in Health, Physical Education and Recreation (3) An introduction to the nature of research in health, physical education and recreation. Prereq: Permission of instructor.

845/445M Health, Physical Education and Recreation (3) An introduction to research methods in the area of aging. Prereq: Permission of instructor.

846/446M Aging and Human Development (3) The course examines different kinds of behavior and the changes which may occur in the aging process. Applications of various personality theories concerning contemporary aging will be examined. Prereq: Permission of instructor.

847/447M Comparative Gerontology (3) A course of study of aging around the world by a comparative method in a cross-cultural and cross-national framework. An exploration of some practical experiences and developments in Europe, Asia, and Africa will be examined. Prereq: Three hours gerontology or permission.

855/455H Health Aspects of Aging (3) The study of psychological aspects of aging, with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: Same as HED 455.

860M Geopolitical Aspects of Aging (3) An examination of the relationship between the physical and social sciences and human aging and the implications of this relationship to society. Prereq: Permission of instructor.

870M Programs and Services for the Aging (3) This course is designed to give the student an historical overview of programs for the elderly; examine the national policy positions as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. Prereq: Permission of instructor.

880M Health Aspects of Aging (3) The study of medical aspects of aging, 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.

890 Thesis (1-9) Independent research project written under the supervision of an advisor. Prereq: Permission of the instructor.

Health Education
445/855H Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: For 455, six hours of health or permission of the instructor.

801V Seminar in Social Gerontology (3) An in-depth examination of some of the social issues affecting the aging population. Prereq: Permission of instructor.

820V Seminar in Social Gerontology (3) An in-depth examination of some of the social issues affecting the aging population. Prereq: Permission of instructor.

812V Seminar in Social Gerontology (3) An in-depth examination of some of the social issues affecting the aging population. Prereq: Permission of instructor.

814V Seminar in Metropolitan Planning and Development (3) An interdisciplinary course on the metropolitan community in which various governmental and college offerings are related to urban problems. Prereq: Permission of instructor. (Same as Econ. 881V and P.A. 881V)

830V/838V Interdisciplinary Seminar On The Urban Community (1-6) An interdisciplinary seminar for graduate students interested in metropolitan problems. Prereq: Permission of instructor. (Same as Econ. 881V and P.A. 881V)


950 Topics in Regional Geographical of North America A seminar in regional geography from the perspective of a participatory approach. Topics include the role of the region in the evolution of the North American landscape and other themes. Prereq: Permission of instructor.
Recreation/Leisure Studies

424/824M Organization and Administration of Recreation (3) Designed to provide a background of information to community recreation with special attention to organization, program development, and administration. Preq: For 824M, at least 9 hours of upper division credit in recreation or permission of the instructor.

430/830M Recreation Programming (3) An advanced study of recreation programming and planning through practical application of research techniques utilizing survey, analysis, case study and compiling study results. Preq: For 830M, recreation major or permission of the instructor. For 430M, graduate standing required.

824/825V Sport in American Culture (3) The course will examine the influence sports have had on people in America. Prereq: 412/812M Rec/Les 195, Junior standing or permission of the instructor.

413/813M Diplomatic History of The United States Since 1865 (3) A study of the foreign relations of the United States since 1900. For 813M, junior standing or permission of the instructor.

414/814M The Early Federal Period, 1789-1815 (3) A study of the interworkings of politics, economics, and foreign affairs in molding government and society during the formative years of the United States. Preq: For 414M, junior standing or permission of the instructor.

415/815M The Jacksonian Era (3) An interpretive study of the middle period of American history. Preq: For 415M, junior standing or permission of the instructor.

416/816M The Civil War and Reconstruction (3) A period study from 1865 to 1877. The backgrounds of the Civil War, the war years, and the rebuilding of the Union during reconstruction will be covered. Preq: For 416M, 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. Emphasis will be placed on the importance of industrialization, urbanization, immigration, and the emergence of the United States as a significant world power. Preq: For 424M, junior standing or permission of the instructor.

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

434/844M History of The South (3) Economic, social, and political development of the south as a region. For 434M, junior standing or permission of the instructor.

435/855J Medical Europe, 1095-1492 (3) Religion, social, economic, political and institutional development of the medieval church and of feudal society from the declining years of the Great Schism to the Crusades. Preq: For 355J, junior standing or permission of the instructor.

435/855J The Age of the Renaissance (3) An introduction to the economic, social, political and cultural development of the Renaissance. Preq: For 355J, junior standing or permission of the instructor.

436/864M The History of the British Empire and Commonwealth (3) Britain and its American colonies, Africa, Asia, and the Pacific: the development of a dependencies of the modern world. Preq: For 364M, junior standing or permission of the instructor.

391/891J Topics in History (3) A pro-seminar on selected topics based on a consideration of internal and/or source materials. Preq: Permission of the instructor.

485/885J History of Women in The United States (3) A study of the women's history from the colonial period to the achievement of suffrage. Preq: For 485J, junior standing or permission of the instructor.

411/811M American Social and Intellectual History of the Colonial Period (3) A study of the social, religious, and intellectual development of the American colonies. Preq: For 411M, junior standing or permission of the instructor.

412/812M The American Frontiers: 1600-1848 (3) A study of the history of the western territories of the United States to the time of the Louisiana purchase. Preq: For 412M, junior standing or permission of the instructor. 815/815J The American Frontiers: 1848-1900 (3) The trans-Mississippi west from Spanish and French colonization to the era of American dominance of the continent. Preq: For 415J, junior standing or permission of the instructor.

333/833J Diplomatic History of The United States Before 1800 (3) A study of the foreign relations of the United States before 1800. Preq: For 333J, junior standing or permission of the instructor.

341/841H Diplomatic History of The United States Since 1865 (3) A study of the foreign relations of the United States since 1900. Preq: For 341H, junior standing or permission of the instructor.
Competition, and the use of complex numbers and statistics to analyze variance.

30/35M Numerical Methods
(3) Solution of equations, polynomial approximation, difference equations, interpolation, quadrature, initial value problems and matrix inversion.
Prefreq: Math/CS 205. Math 311 recommended.

38/392 Data Structures
(3) List processing, key concepts of data representation and storage of trees and graphs, sorting and searching.

345/345M Communications Systems
(3) Functions of life systems and communication systems within an information system.
Prefreq: Math/CS 342.

365/8653 Operations Analysis and Model-Building
(3) Examination and construction of models for decision making, queuing, inventory, and simulation. Prefreq: A course in linear algebra, competence in programming FORTRAN or P/L.1. Probability and statistics desirable.

42/4232M Programming Languages

430/830M Linear Programming
(3) An introduction to linear programming and applications.
Prefreq: 435/353M.

435/353M Computer Organization

436/845M Systems Programming I

451/851M Systems Programming II

470/870M Introduction to Theory of Compilers
(3) Compiler generation, assembly languages, algorithms for optimization, and computer languages. Prefreq: Math/CS 331 and 422. Math/CS 450 recommended.

472/872M Advanced Programming Techniques
(3) Data structures, language design, manipulation of advanced programs used with contemporary computers.

8001 Statistical Methods I
(3) Distributions, introduction to measures of central value and dispersion, properties of distribution of mean of samples, introduction to analysis of variance. Statistical packages on the computer will be utilized in the course.
Prefreq: Math 131 or equivalent.

8013 Statistical Methods II
(3) Regression and correlation. Analysis of categorical type statistics, more analysis of variance, questions of normality, introduction to nonparametric statistics. Statistical packages are supplemented where appropriate. Stat 8001 or equivalent.

8311/8313H Special Equations I
(3) Methods of solving ordinary differential equations, with applications to geometry and physics. Linear differential equations are emphasized.
Prefreq: Math 196.

850/850J Selected Topics in Mathematics
(1-3) This is a variable content course with selected topics in the mathematical sciences which may be of interest to freshmen, mathematics, non-mathematics majors. May apply 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. May apply to M.A. or M.S. in mathematics. Prefreq: Permission of instructor.

860/860J Elementary Topology
(2) Sets and functions, continuous functions and homeomorphisms, connectedness, compactness. Prefreq: Math 196 and 201.

864/864J Modern Geometry
(3) Axiomatic systems, finite geometries, concepts of Euclidean geometry, hyperbolic and other non-Euclidean geometries. Prefreq: Math 196 or equivalent mathematical maturity.

870/870J Introduction to Modern Algebra
(3) Introduction to abstract algebra to include groups, rings, fields. Examples and elementary proofs will be given.

884/884J Diskrete Mathematik
(3) An introduction to abstract algebra to include rings, groups, fields, and fields. Examples and elementary proofs will be given.

8841/8843M Real Analysis
(3) An introduction to analysis. Topology of the real line, limits, sequences of functions, continuity, divergence. Prefreq: Math 197 and 201 and at least one 300-level math course.

8842/8843M Mathematical Analysis I
(3) A theoretical foundation for the concepts of elementary calculus. Topics include functions of one variable, continuity, differentiation, integration. Prefreq: Math 197 and 201 and at least one 300-level math course.

8845/8847M Mathematical Analysis II
(3) A theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables, continuity, differentiation, multiple integrals. Infnite series: uniform convergence; improper integrals. Prefreq: Math 423 or equivalent.

8927/8927M Theory of Variates
(3) Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus. Prefreq: Math 203 or advanced calculus.

8929/8929M Theory of Ordinary Differential Equations
(3) Linear and nonlinear first order equations, self-adjoint elliptic equations, eigenfunctions and eigenvalues, Green's functions, and boundary value problems.

895V-R85V Theory of Analytic Functions
(Each 3) Semester I: Complex numbers, analytic functions, elementary functions, complex integrations. Semester II: Calculus of analytic functions, complex integration, conformal mappings, normal families, and conformal mappings. Prefreq: Math 423, 424 or 427. R83V needed for R86V.

896V Calculus of Variations
(3) An introductory course devoted to the calculus of variations and related problems, such as the brachistochrone problem and the geodesic lines in parametric form. Prefreq: Math 423, 424.

897V 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. Prefreq: Math 427.

899V Differential Geometry
(3) Differential geometry of curves and surfaces, the Gauss map, geodesics, differential geometry of Euclidean space. Prefreq: Mathematical analysis or equivalent.

906V-R86V Introductory Topology
(Each 3) An introduction to point set topology, topological spaces, continuous maps and homeomorphisms, connectedness, compactness, separation axioms, convergence. Prefreq: Permission of instructor, R86V required for R84V. R86V is offered only in the fall of even numbered years. R84V to be offered in the spring of odd numbered years.

998V 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 adequately handled by a regular course.

1101 Advanced Topics
(3) The Graduate Bulletin

1104T Topics in Computer Science
(3) An introduction to digital computers and programming systems. Brief histories of the development of computing, a survey of the applications of computer, the implications of the use of computers in education, and the role of the secondary teacher certification or is working toward it, or permission of instructor.

1123 Advanced Topics in Algebra

1141T Theory of Functions of Real Variables
(Each 3) The real number system, generalized convergence, continuity, semi-continuity, boundedness, uniform continuity, differentiation, integration, approximation, series, and Stieltjes integration. Abstract measure theory,
Music  
854/855 Renaissance and Baroque Music Literature (3) Study of music from the Renaissance and Baroque periods. Written project. Prereq: 6 hrs. of undergraduate music history and permission.  
855/M Classical and Romantic Music Literature (3) Study of music from the Classic and Romantic periods. Written project. Prereq. 6 hrs. of undergraduate music history and permission.  
856/M Music in the Twentieth Century (3) Study of representative 20th Century compositions in all performance media. Written project. Prereq. 6 hrs. of undergraduate music history and permission.  
861V Seminar/Workshop in Music Education (1-3) Seminars and workshops in music education for the graduate student and inservice teacher. Prereq. Permission.  
863V Advanced Conducting (3) Study of conducting problems in bands and orchestras and techniques for their solution. Prereq. Music 260 and 363 or 316/816. Modern Developments in Music (3) Discussion limited to topics in music which have been discovered in the past 10 to 15 years. The course elaborates on topics introduced in Music 315, Prereq: Physics 112 or 212 and Physics 215 or equivalent.  
375/875 Electricity and Magnetism I (4) An advanced discussion of electrodynamics and magnetostatics as well as A.C. theory. Prereq: Calculus, Physics 325, or permission.  
375L Laboratory for Electricity and Magnetism I. Prereq: 6 hrs. of undergraduate calculus.  
376/876 Electricity and Magnetism II (4) A course in electrodynamics. Topics include maxwell's equations and methods for their solutions, boundary conditions, as well as energy, momentum, and transformations of the fields. Prereq: Physics 375.  
376L Laboratory for Electricity and Magnetism II. Prereq: 6 hrs. of undergraduate calculus.  
385/885 Thermodynamics and Statistical Mechanics (4) Topics include laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistics, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena in given. Prereq: Calculus and Physics 112 or 212.  
485/585/485N/585N Solid State (4) Behavior of materials in the solid state concerning energy levels, wave mechanics, optical and electrical phenomena. Prereq: Calculus and Physics 112 or 212.  
482/582 Atomic and Molecular Physics (4) Recent developments concerning the nature of matter, quantum mechanics, and the significant experimental and theoretical effects and the dualistic behavior of particles and waves. Prereq: Calculus and Physics 112 or 212.  
482L-582L Laboratory for Atomic and Molecular Physics.  
484/544 Nuclear Physics (4) Methodology and principles of nuclear physics. Nuclear structure, nuclear reactions, atomic structure, nuclear reactions, the stars, nuclear astrophysics. Prereq: Calculus and Physics 112 or 212.  
484L Laboratory for Nuclear Physics.  
430/535 Descriptive Astronomy (4) Astronomy from pre-modern times to the present. Focuses on the development of astronomical studies. Prereq: Calculus and Physics 112 or 212.  
441L/544L Nuclear Physics Laboratory (1)  
445/555 Quantum Mechanics (4) This rigorous introduction to quantum mechanics includes the methods of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Prereq: Calculus and Physics 112 or 212.  
445L Laboratory for Quantum Mechanics.  
449/549 Special Relativity (4) Application of the principles of relativity to both macroscopic and microscopic systems. Prereq: Calculus and Physics 112 or 212.  
449L Laboratory for Special Relativity.  
450/550 Quantum Mechanics I (4) This rigorous introduction to quantum mechanics includes the methods of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Prereq: Calculus and Physics 112 or 212.  
450L Laboratory for Quantum Mechanics I.  
455/555 Quantum Mechanics II (4) This rigorous introduction to quantum mechanics includes the methods of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Prereq: Calculus and Physics 112 or 212.  
455L Laboratory for Quantum Mechanics II.  
456/556 Quantum Mechanics III (4) This rigorous introduction to quantum mechanics includes the methods of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Prereq: Calculus and Physics 112 or 212.  
456L Laboratory for Quantum Mechanics III.  
457/557 Quantum Mechanics IV (4) This rigorous introduction to quantum mechanics includes the methods of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Prereq: Calculus and Physics 112 or 212.  
457L Laboratory for Quantum Mechanics IV.  
460/560 Problems in Physics (1-3) Individual laboratory and/or library research in an area of interest. Prereq: Permission of physics and permission of instructor. For 460: permission of instructor.  
495/595 Problems in Physics (1-3) Individual laboratory and/or library research in an area of interest. Prereq: Permission of physics and permission of instructor. For 495: permission of instructor.  
Political Science  
433/533M The Presidency (3) The role of the president in the political process. Prereq: For 433: Majors only.  
434/534M The Legislative Process (3) A comprehensive study of the legislative process in the American political system. Prereq: For 434: Majors only.  
435/535M The Executive (3) A study of the executive branch of the American political system. Prereq: For 435: Majors only.  
495/595M The American Legal System (3) An introduction to the American legal system, its structure and functions. Prereq: For 495: Majors only.  
496/596M Government in Western Society.  
497/597M The American Political Economy (3) An introduction to the American political economy, its structure and functions. Prereq: For 497: Majors only.  
498/598M The American Political System (3) An introduction to the American political system, its structure and functions. Prereq: For 498: Majors only.  
499/599M Independent Study (3) Independent study with permission of instructor. Prereq: For 499: Majors only.
459/859M 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 459, 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 in Soviet politics and to the ideological and social factors which influence policy formulation and implementation. Prereq: For 458, junior standing.

460/860M Comparative Political Studies (3) An examination of the methods and concepts of comparative political analysis. Prereq: For 460, junior standing or permission of the instructor.

464/864M Governments and Politics of Non-Communist Asia (3) Local political, governmental institutions, political dynamics and development problems of selected non-Communist nations in Asia. Prereq: For 464, junior standing.

466/866M 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 466, junior standing.

492/892M Topics in Political Science (3) A program of courses designed to meet the needs of students on the basis of the literature of political science and/or primary source material. Prereq: For 492, junior standing; permission of the instructor.

800V Seminar In The Research Methods of Political Science (3) A critical introduction of the methods of data collection and analysis for political science and political analysis. Prereq: Permis­sion of the graduate advisor. (Also listed under political science).

844V Seminar in American Government and Politics (3) A thorough analysis of selected aspects of American political culture with emphasis on individual research by the student. Prereq: Permission of graduate advisor.

851V Seminar in Public Law (3) Practical methodology designed to specifically selected problems of the areas of administrative, constitutional, and/or international law. Problems studied will correspond to those encountered by government employees, officials, and attorneys in the national, state, and local level. Emphasis will be varied from semester to semester to the appropriate problems. Prereq: With background and objectives of the students enrolled. Prereq: Three sophomore law or permission of graduate advisor.

820V Seminar in International Politics (3) An examination of the theoretical frameworks and approaches to the study of international relations, with application to particular problems in international relations. Prereq: Permission of graduate advisor.

830V Seminar in Political Theory (3) Analysis of selected topics in normative, empirical and ideological political sciences and current issues under consideration in political science. Prereq: Six hours of political science or permission of the instructor.

850V Seminar in Comparative Politics (3) An examination of the structure and function of the field of comparative politics, with special concern for the role of foreign policy in contemporary political systems. Prereq: Permission of graduate advisor.

870V Seminar in Comparative Politics: Emerging Areas (3) Research, analysis, and writing on topics of general political importance to the governments, politics, and political problems of emerging nations. Prereq: Permission of graduate advisor.

880V Independent Study in Topics of Urban Community (3) An independent study in urban community problems on the basis under faculty supervision in topics pertinent to urban systems. Prereq: Undergraduate major in one of the social sciences. (Also listed under economics, geography, and sociology.)

894V-898V Interdisciplinary Seminar On The Urban Community (3-6) An interdisciplinary course on the metropolitan community in which various departments of the school are concerned with urban problems. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, and sociology.)

900V Reading in Political Science (3) Specialized readings in political science for the graduate student who encounters scheduling problems in the completion of his program of study. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, and sociology.)

990V Readings in Political Science (3) A supervised reading program in political science for the graduate student who encounters scheduling problems in the completion of his program of study. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, and sociology.)

899 Thesis (3-6) A research project, written under the supervision of a member of the Department of Political Science, in which the student is required to complete an independent, scholarly investigation of a high order of originality. The research topics are in the student's major field. Permission must be approved by the student's departmental committee. Prereq: Permission of graduate advisor.

Psychology

401/801H History of Psychology (3) A study of the origins, development, and nature of psychology as a science and its relation to the external events that have emphasized on the period since 1875. Prereq: For 401, junior standing.

405/805M Computer Concepts in Psychology and The Behavioral Sciences (3) An introductory course emphasizing the use of computers in the areas of psychology, sociology, and education. Includes a functional description and a discussion of programs designed for general or specific use. Prereq: Psychology 213 or equivalent.

406/806M Environmental Psychology (3) A study of the relationship between environmental factors and the natural and artificial environments upon practitioners of politics. Prereq: Six hours of political science or permission of the instructor.

411V Seminar in Comparative Politics (3) An emphasis on the development and function of the comparative political systems. Prereq: Permission of graduate advisor.

412V Seminar in Comparative Politics: Emerging Areas (3) Research, analysis, and writing on topics of general political importance to the governments, politics, and political problems of emerging nations. Prereq: Permission of graduate advisor.

427/827M Animal Behavior (3) Behavior of diverse species, synthesis of animal behavior as a function of animal behavior and as a function of natural selection. Prereq: Psychology 101 or permission. (Same as Biology 427 and 827M).

431/831M Psychological and Educational Testing (3) Standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity. Prereq: Psychology 102 or 351.

433/833M Individual Differences (3) A critical study of the personality traits and psychological characteristics of the individual. Prereq: Psychology 101 and permission. (Same as Psychology 433 and 833M).

443/843M Psychopathology of Psychology (3) An integrative approach to the diagnosis of psychological disorders, including the assessment of the validity of various diagnostic criteria and the evaluation of the course of treatment. Prereq: Psychology 213 and equivalent or Psychology 343.

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

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

447/847M Jungian Psychology (3) This course emphasizes the relationship between the theory and practice of Jungian psychology and the individual. Prereq: With a Jungian approach emphasizing psychology, literature, and/or mythology. Prereq: For 447, junior standing and permission of the instructor.

448/848M Eastern Psychology (3) Theory and techniques of eastern psychology with emphasis on the differences between and within the eastern hemisphere and the psychological functions of its constituents. Prereq: For 448, junior standing and permission of the instructor.

452/852M Psychology of Aging (3) A discussion of the literature concerned with how such psychological variables as intelligence, memory, and role development relate to the linguistic variables of sentence structure and the interpretation of speech sounds. Prereq: For 452, senior or graduate standing, or permission of the instructor. (Same as Anthropology 452 and German 452.)

455/855M Retardation (3) This course considers significantly intellectually handicapped individuals functioning during the period of retardation and associated with impairment in adaptive behavior. Prereq: Psychology 415 or 815M, Psychology 411 or 811M, or Psychology 213 or equivalent and Professor's permission.

459/859M Psychology of Exceptional Children (3) A study of the special problems of children with visual, auditory, or neurological impairments, orthopedic anomalies, intellectual retardation, or other disabilities who are concerned with exceptional behavior as a function of the child and the environment. Prereq: Psychology 243 or 343 and course work in psychology. (Same as Psychology 243 or 343).
SPEECH

Study of professional interests. Prerequisite: Psychology 213 or equivalent. UNIVERSITY OF

351.

Clinical and subjective aspects of human assessment and their applications to problems of contemporary education, particularly to those problems existing in the classroom. Prerequisite: Psychology 213 or equivalent. (Same as Speech 850.)

851V Advanced Educational Psychology (3) A study of the principles of learning and testing and their applications to problems of contemporary education. Prerequisite: Psychology 213 or equivalent. (Same as Speech 850.)

853V Clinical Assessment I: Foundations (3) This is an introductory or survey course on the clinical and subjective aspects of human assessment and their applications to problems of contemporary education, particularly to those problems existing in the classroom. Prerequisite: Psychology 213 or equivalent. (Same as Speech 850.)

852V Measurement (3) A study of the theoretical and practical problems related to the development and use of psychological tests covering attitude, aptitude, and research development, standardization, reliability, validity, and interpretation. Prerequisite: Psychology 212 or equivalent.

855V Seminar in Communication Theory (3) Analysis of communication with emphasis on theoretical and practical problems related to various professional interests. Prerequisite: Psychology 213 or equivalent. (Same as Speech 850.)

857V Research on Cognitive and Linguistic Development (3) A study of recent research on cognitive and linguistic development from infancy to adolescence. Prerequisite: Psychology 352 or equivalent or permission of instructor.

859V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Research methods and theory, as they apply to social and personality development, will be emphasized throughout the course. All students will be expected to design and conduct a mini-observational study in the area of social and personality development.

860V Psychology of Women (3) A course providing comprehensive coverage of psychological theory and research concerning women. Critical analysis of theoretical and experimental issues will be emphasized. Students will participate in the conducted literature, multiple correlation, and regression are discussed including the psychological and social influences of women. Prerequisite: Psychology 213 or equivalent or permission of instructor.

862V Psychological Aspects of Industrial Training and Education (3) A study and application of the theory, techniques, and procedures involved in preparing individuals for their jobs. Emphasis on intelligence testing. Prerequisite: 6 graduate hours of psychology including comprehensive examination in all required courses for the master's degree and Psychology 431/431m or 832 and admission to either psychological assistant or school psychology program.

864V Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis on intelligence testing. Prerequisite: Graduate hours of psychology including comprehensive examination in all required courses for the master's degree and Psychology 431/431m or 832 and admission to either psychological assistant or school psychology program.

865V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis on intelligence testing. Prerequisite: Graduate hours of psychology including comprehensive examination in all required courses for the master's degree and Psychology 431/431m or 832 and admission to either psychological assistant or school psychology program.

866V Introduction to Therapeutic Techniques With Children (3) The purpose of this course is to acquaint the student with a therapeutic approach to problems of children and to develop methods for enhancing the child's self-concept. The child will be exposed to methods for improving attitudes and behavioral patterns. Prerequisite: Permission of instructor. (Same as Speech 866.)

868V Research on Sociocultural Development (3) A study of the research literature on sociocultural development, with emphasis on understanding of human behavior. Prerequisite: Psychology 213 or equivalent or permission of instructor. (Same as Speech 868.)

873V Seminar: Psychology of Motivation (3-5) A topic area within the field of motivation will be explored in depth. Each year, the specific topic will vary. Prerequisite: To conclude with that of the Nebraska symposium on motivation. Students enrolled in the course will be expected to attend the symposium and submit a paper to the Nebraska Graduate standing and instructor's permission.

874V Seminar: Learning (3) A comprehensive and intensive coverage of the experimental literature in depth. Each year, the specific topic will vary. Prerequisite: Permission of instructor.

875V Advanced Seminar in Learning (3) A course considering theories which have most directly influenced the contemporary psychology of learning. Prerequisite: Psychology 301 or 904 or permission of instructor.

906V Proseminar: Analysis of Variance (3) A course providing a theoretical and practical understanding of the analysis of variance model. Prerequisite: Permission of instructor.

911V Proseminar: Multiple Regression and Factor Analysis (3) Advanced problems and techniques in multiple regression and factor analysis. Prerequisite: Permission of instructor.

912V Proseminar: Perception (3) A comprehensive and intensive coverage of the experimental literature in depth. Each year, the specific topic will vary. Prerequisite: Permission of instructor.

913V Proseminar: Psychophysiology (3) A systematic study of experimental design and physiological processes underlying behavior. Prerequisite: Permission of instructor.

921V Proseminar: Personality and Prediction (3) A theoretical and empirical analysis of personality and prediction, including scaling and scoring. Prerequisite: Psychology 432 or equivalent or permission of instructor.

923V Proseminar: Physiological Psychology (3) A theoretical and empirical analysis of personality and prediction, including scaling and scoring. Prerequisite: Psychology 432 or equivalent or permission of instructor.

925V Communication Theory (3-6) A theoretical and empirical analysis of personality and prediction, including scaling and scoring. Prerequisite: Psychology 432 or equivalent or permission of instructor.

929 Seminar in Developmental Psychology (3-6) A theoretical and empirical analysis of personality and prediction, including scaling and scoring. Prerequisite: Psychology 432 or equivalent or permission of instructor.

930 Seminar in Applications of Non-Verbal Communication (3) Theories and research on the development, facilitation and barriers to non-verbal communication. Analysis of non-verbal interactions with special application to education, business, supervision, and interpersonal communication. Prerequisite: Course in research methods or permission of instructor. (Same as Speech 935 and SED 936.)

940 Seminar in Small Group Communication (3) Research and theory in the process of small group communication and leadership. Prerequisites: Approaches to teaching a discussion course. Prerequisite: Speech 432 or equivalent. Prerequisite: Psychology 213 or equivalent or permission of instructor. (Same as Speech 940 and Sociology 940.)

943V Proseminar: Personality (3) A course considering the effects of personality factors on behavior. A historical, theoretical, psychometric, and experimental approach will be emphasized. Prerequisite: Permission of instructor.

944V Social Psychology (3) Examination of basic concepts related to the psychology of social influence. Topics will include social identification, social influence on personal attraction, leadership and group effectiveness, status and attitudes, and social change. Prerequisite: Psychology 213 or equivalent or permission of instructor.

947V Proseminar: Personality (3-6) A theoretical and empirical analysis of personality and prediction, including scaling and scoring. Prerequisite: Psychology 432 or equivalent or permission of instructor.

948 Geropsychology (3) This course considers the psychology of aging. The focus will be on the period from middle age to old age, rather than infant, pre-school, adolescent and young adult years. Prerequisite: Five hours of psychology or gerontology or permission of the instructor.

956V Proseminar: Educational Psychology (3) A theoretical and empirical analysis of personality and prediction, including scaling and scoring. Prerequisite: Psychology 432 or equivalent or permission of instructor.

958 Personality Assessment (3) A course dealing with tests and techniques for evaluation of personality characteristics. Prerequisite: Introduction to advanced graduate students in psychology who are enrolled in a program of studies leading to certification as school psychologists. An introductory course in group testing, psychological assessment, and intensive clinical field experiences with children. Prerequisites: Psychology 213 or equivalent, and permission.

959 Seminar in Developmental Psychology (3-6) Faculty and student presentations organized around one of the following topics: Developmental processes in the studies of child psychology, social and personality development, and changes in conditioning and learning. Prerequisite: Permission of instructor. (Same as Speech 959.)

The Graduate Bulletin
I, ... 1995 Practicum in teaching people classroom and a job. emphasizing use of preservice student with the procedures used in assessing and school psychology which will be announced of the department.

90V Seminar in The Research Methods of PolITICAL Science and Public Administration (3) A critical overview of the issues, research methods and analysis and analysis for political science and public administration research. (Also listed under political science.) Prereq: 317; permission of graduate advisor.

981V Practicum in Classroom Planning and Administra TION (3) An overview of the present status of planning in metropolitan areas with emphasis on structure and planning departments, comprehensive plans, and problems of innovation. Prereq: Geo 412 or recommend for this problem is, 360 or 380 or department. (Also listed under geo.)

982V Advanced Topics in Public Administration (1-3) A seminar on advanced topics based upon special needs of graduate students in selected options. Normally taught by outstanding practitioners in the field. Prereq: Graduate standing, permission of instructor, prior course work and/or experience in the topical area.

982V Readings in Public Administration (1-3) Specially planned readings in public administration, with or without regular course offerings. Prereq: Permission of instructor.

984V Research in Public Administration (1-3) The course is intended for advanced graduate students who have a minimum of 36 semester hours and who are independent researchers. Prereq: Graduate standing, permission of instructor. 

985V Practicum Teaching Experience (1-3) A study of the theory and practice of public administration in public agencies. Prereq: 36 semester hours and prospective cooperation in the area of public administration. 

849V Seminar in Advanced Management Analysis in Public Agencies (3) A study of the methods related to analysis of problems of organization and work flow in public agencies. The course includes problem analysis, field study methods, design of improved methods and measures of impact. Prereq: Permission of graduate advisor.

846V Seminar in Public Personnel Administration (1-3) This course focuses on the principal consideration affecting the selection and utilization of human and other classroom teachers to gain information about adolescents, their reading and viewing habits and interests. Factors which affect reading, guidance in reading, and types of reading materials recommended. Crosslisted with GS 421. Prereq: For 822, 823, Educational Foundations 205 or Educational Foundations 351 and graduate standing.

848V Seminar in Public Financial Administration (3) Financial organization, intergovernmental cooperation, and the administrative and financial responsibilities of public agencies. Prereq: 36 semester hours. 

860V Seminar in Administrative Law (3) A review of recent developments, with special emphasis on public administration, including delegation of powers, legal implications of future administrative action, and liability of government units and officials and judicial review of administrative action. Prereq: permission of graduate advisor.

880V Practicum in Metropolitan Planning and Administration (1-3) An overview of the present status of planning in metropolitan areas with emphasis on structure and planning departments, comprehensive plans, and problems of innovation. Prereq: 412 or recommendation for this problem is, 360 or 380 or department. (Also listed under geo.)

882V Seminar in Metropolitan Planning and Administration (1-3) A seminar on advanced topics based upon special needs of graduate students in selected options. Normally taught by outstanding practitioners in the field. Prereq: Graduate standing, permission of instructor, prior course work and/or experience in the topical area.

890V Seminar in Intergovernmental Relations (1-3) An overview of the various types of intergovernmental relations and intergovernmental conflict in the United States and other countries. Prereq: 412 or recommendation for this problem is, 360 or 380 or department. (Also listed under geo.)

894V Seminar in Public Personnel Administration (1-3) A study of the theory and practice of public administration in public agencies. Prereq: Graduate standing, permission of instructor, prior course work and/or experience in the topical area.

896V Seminar in Administrative Law (3) A review of recent developments, with special emphasis on public administration, including delegation of powers, legal implications of future administrative action, and liability of government units and officials and judicial review of administrative action. Prereq: permission of graduate advisor.

898V Seminar in Metropolitan Planning and Administration (1-3) An overview of the present status of planning in metropolitan areas with emphasis on structure and planning departments, comprehensive plans, and problems of innovation. Prereq: 412 or recommendation for this problem is, 360 or 380 or department. (Also listed under geo.)

870V Practicum in Classroom Planning and Administration (1-3) A seminar on advanced topics based upon special needs of graduate students in selected options. Normally taught by outstanding practitioners in the field. Prereq: Graduate standing, permission of instructor, prior course work and/or experience in the topical area.

872V Seminar in Intergovernmental Relations (1-3) An overview of the various types of intergovernmental relations and intergovernmental conflict in the United States and other countries. Prereq: 412 or recommendation for this problem is, 360 or 380 or department. (Also listed under geo.)

876V Seminar in Public Personnel Administration (1-3) A study of the theory and practice of public administration in public agencies. Prereq: Graduate standing, permission of instructor, prior course work and/or experience in the topical area.
School Foreign Language Speech Process Systems using a student's understanding of these observational systems using video-tape equipment is stressed. 858V Improvement of Instruction of Secondary School Foreign Language. (3) Exploration of the implications and contributions of recent methodological and empirical research in instructional process and the effects of the speech process on the student, exploration of other teaching methods and instructional techniques. 

837V Improvement of Instruction of Secondary School Foreign Language. (3) This course is designed especially for the teacher who is interested in the improvement of instruction in foreign language. The course will encompass a whole range of opportunities for improvement of students' involvement in the language, which will be concentrated on current developments in audio-lingual-visual programs that have implications for classroom practice.

840V Improvement of Instruction of Secondary School English Language. (3) Exploration of the implications of recent research in language and linguistics for instructional improvement in the classroom.

841V Improvement of Instruction of Secondary School English Language. (3) Literature for instructional improvement in the secondary school English classroom.

845V Improvement of Instruction of Secondary School Social Studies. (3) Designed especially for teachers who are interested in the improvement of instruction of the social studies. Will encourage teachers to take advantage of opportunities available for the improvement of social studies instruction and to use these opportunities to concentrate on current developments that have implications for the classroom.

846V Simulation/Gaming Laboratory for Secondary Teachers. (3) This course is designed to familiarize teachers and students with simulation games. It is designed to provide them with the ability to understand, use, and create simulation/games for the classroom.

847V Materials Laboratory for The Social Studies. (3) Designed to acquaint social studies teachers with new materials in the social studies. Students will plan for and present studies for the evaluation of materials from recent curriculum projects.

849V Seminar in Social Studies Curriculum Organization. (3) The course is designed for social studies supervisors, department chairs, and members of a task force that will be involved in curriculum revision. The seminar will concentrate on learning to design and construct curriculums for the social studies.

854V Improvement of Instruction of Secondary School Mathematics. (3) This course is designed for mathematics teachers who wish to extend their knowledge of the secondary school mathematics curriculum and their skill in employing instructional techniques for teaching mathematics. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.

852V Foundations in Business Education. (3) Designed especially for the teacher who is interested in the standing of business education; to identify and define the various roles that business education plays, present, and future role in the total education pattern of our country in today's world.

853V Seminar in Marketing. (3) A graduate seminar in X-12 mathematics education emphasizing recent curricular developments, curriculum planning, research, mathematics supervision, and contemporary issues in mathematics education. Prereq: Graduate standing and permission of instructor.

856V Development of Instruction of Secondary School Science. (3) This course is designed for graduate students who wish to become better informed about the recently developed programs for secondary science; the methods, the programs in science and the instruction which are characteristic of these programs.

860V Improvement of Instruction of Science, Harvard Project Physics. (3) A graduate course in teaching the Harvard project physics curriculum method, materials, and philosophical background of Harvard project physics.

867V Science Education Seminar. (3) A graduate seminar in X-12 science education emphasizing research, newly developed science curricula, curriculum planning, science supervision, and treatment of one or more localized science issues.

868V Trends and Teaching Strategies in Science Education. (3) This course is designed for the graduate student with a background of opportunities available for the improvement of science studies. The course will help teachers to concentrate on current developments that have implications for the classroom.

870V Social Work Practice I (Genetic). (3) This course is designed to serve as an introduction to the common core of concepts, skills, tasks, and applications which are essential to the practice of social work and which serve as a foundation for further professional growth. Prereq: Admission to the SW program or permission of instructor.

873V Social Work Practice II (Micro). (3) An introductory course for graduate social work students focusing on basic theory and principles of social work practice with individuals and small groups. Prereqs: SW 810 or permission of instructor.

873V Social Work Practice III (Macro). (3) This course is designed to provide graduate social work students with an understanding of the key issues and trends in business education.

877V Vocational Curriculum Construction. (3) A course designed for teachers, supervisors, coordinators, and administrators of vocational education. Emphasis is on the planning, evaluation, factors, and trends that should be considered in developing a vocational education program. Prereq: SW 810 or by permission of instructor.

880 Thesis (1-6) Required of all students taking Master of Arts degree, see major advisor for information.
887 Alcohol Abuse: Social work within the juvenile justice system. Mental retardation. Prereq: SW 805 or equivalent, or permission of instructor.

889 Special Studies in Social Welfare (1-3) Special studies in a selected area of social welfare for deepening the student's knowledge in that particular area. Prereq: Graduate standing and permission of instructor.

892 Seminar in Utilization of Research in Social Work (3) The course is designed to provide the student with an understanding of the primary social welfare programs and services. It may be taken no more than twice for credit. Prereq: Graduate standing or permission of instructor.

894 Evaluation of Social Programs (3) A study of the various issues and methodologies of social program evaluation in individual areas. Prereq: For 492, 9 hours of previous anthropology courses completed with a grade of B or above or consent of the instructor. For 892m, permission of the instructor.

940 Cultural Anthropology (3) The course is designed to provide the student with an understanding of the primary social welfare programs and services. It may be taken no more than twice for credit. Prereq: Graduate standing or permission of instructor.

941 Cross-Cultural Communication (3) The course is designed to provide the student with an understanding of the primary social welfare programs and services. It may be taken no more than twice for credit. Prereq: Graduate standing or permission of instructor.

942 Emergence of Social Behavior (3) The study of the processes of growth and change within unstable societies including groups with growing membership and changing membership. Prereq: For 492, 9 hours of sociology, including Sociology 101 or 403, and 301. For 892m, permission of the instructor.

943/843M Advanced General Social Work (3) A survey of the principles of social work and social welfare agencies, institutions, social organizations, and social movements. Consideration is also given to sociological techniques, major specialties, and classes of data. Prereq: Junior/senior standing or permission. Not open to anyone who has less credit in Sociology 101. Does not count as credit in Sociology.

946/846M Sociology of the Community (3) A basic course in community sociology. Social welfare policies and the techniques of empirical research are applied to published studies of communities in the United States and elsewhere. The comparative sociological method is elaborated as it pertains to data derived from community investigations. Prereq: For 421, Anthropol 105 or 431m, permission of the instructor.

947/847M Anthropology (3) An introduction to cultural anthropology with a special emphasis on selected topics. Prereq: Graduate standing and permission of instructor.

959 Master's Thesis (6) Under the supervision of the instructor. Prereq: Permission of the instructor.
424/824M Teaching of Language to the Deaf II (3) Continued study of instructional and rehabilitative principles and further consideration of criteria for selection and utilization of teaching materials; special emphasis on language development and their integration in speech-language pathology and audiology.
Preq: For 424, Special Education 423, S.

433/833M Special Education (Auditory Training I) (2) History of development of auditory training methods and principles in teaching speech reading and hearing impairment.
Preq: For 433, junior standing. Teacher education and 2.5 GPA. (F,Sp)

435/835M Teaching School Subjects to the Deaf II (2) Consideration of problems in deaf education and reinforcement of methods and materials appropriate to the hearing impaired.
Preq: For 435, junior standing. (F,Sp)

438/838M Speech Science I: Auditory and Speech Mechanism (3) Basic structure and function of the auditory system and speech.
Preq: For 438, junior standing 2.5 GPA.

440/840M Learning Disabilities (3) Study of specific learning disabilities among children: reviews the basic research, theories and definitions; causes of learning disabilities; evaluation techniques for identification of the problem; therapy techniques for rehabilitation of children with specific learning disabilities.
Preq: For 440, junior standing. Teacher education and 2.5 GPA. (F,Sp)

445/845M Speech Pathology I: Childhood Language and Articulation and Phonetics (3) Study of basic mechanisms and symbols of human communication; special emphasis on voice and articulation disorders; classroom demonstration techniques; selection and utilization of corrective techniques and activities; procedures and materials associated with specific learning disabilities in speech and language disorders.
Preq: For 445, Special Education 341, 434, 438, (S).

446/846M Speech Pathology II: Rhythm and Symbolization in Speech and Language Disorders (3) Analysis and language symbolization disorders, classroom demonstration techniques; selection and utilization of corrective techniques and activities; procedures and materials associated with stuttering, aphasia and delayed language development.

446/846M Speech Pathology II: Rhythm and Symbolization in Speech and Language Disorders (3) Analysis and language symbolization disorders, classroom demonstration techniques; selection and utilization of corrective techniques and activities; procedures and materials associated with stuttering, aphasia and delayed language development.

450/850M Communication Disorders in the Elementary and Secondary Schools (3) Speech disorders of communicative, social and private education for school age children; role and responsibilities of speech therapists; current practices in evaluation of articulation and phonetics.
Preq: For 450, Special Education 443 or Special Education 444 and standing and 6 hours speech pathology courses.

451/851M Basic Clinical Practicum in Speech Pathology (1-3) Minimum of 45 clock hours per credit hour of supervised practice in speech and
hearing clinic: speech and hearing evaluation, therapy sessions, lesson plans, records, and a weekly colloquium. Prereq: For 451, Special Education 443 or Special Education 444. For 851m, graduate standing and permission of the instructor.

460/860M Introduction to the Mentally Subnormal Child. Concerned with the current definitions and classifications of MR; the causes of MR; the costs and contributor's main thoughts on the evolution of these definitions. The educational needs, services and treatment for the mildly handicapped and society's relationship to the retarded; the methods, techniques and devices used to teach the mentally retarded; the status of field and trends in; the administration of programs for the retarded. Prereq: For 460, junior standing and 2.0 GPA. For 860M, Special Education 460 and 2.5 GPA. (F,Su)

463/863M Curriculum Planning for the Disabled (3) The mentally retarded child as an educable or trainable individual; an investigation of the problems involved in curriculum development for the mentally subnormal child. Pre- school education, vocational identification of needs and goals and determination of content. Prereq: For 463, junior standing, Special Education 460, teacher education and 2.5 GPA. For 863M, Special Education 460 and working experience with handi capped children. (F,Su)

464/864M Methods and Materials for Teaching Mentally Retarded Children (3) The retarded child as a variable, contributing to its nature, and plan for its improvement. The programs for the trainable and educable. Prereq: For 464, junior standing; teacher education and Special Education 460, and 2.5 GPA. (F, S)

476/876M Advanced Interventions for Language Disorders (3) This course is designed to cover the various problems involved in language acquisition among exceptional children; and the various remedial methodologies techniques of teaching language to exceptional children. Prereq: For 476, Special Education 306 or Special Education 306 and 2.5 GPA. (F)

480/880M Emotional Development of Children and Youth (3) An introductory study of emotions, conflicts, and sex differences in children and youth with attention to the symptoms and causes of emotional deviation, and their means of improvement. Prereq: For 480, junior standing.

481/881M Classroom Techniques for Behavior Change (3) An introduction to the student to a variety of techniques for managing behavior in the classroom. Three major areas will be covered: specific techniques of behavior change and the principles within each will be practiced both in the class and in the student's own classroom situation. Application and adjustments of techniques will be accomplished. This course is intended for undergraduate students who are currently enrolled in student teaching and for graduate students who are currently enrolled in elementary, or special education programs.

Prereq: for 481, Junior standing and student teaching, for 881M graduate standing. (S)

483B/883M Introduction to the Physically Handicapped. A seminar 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 and the principles within each will be practiced both in the class and in the student's own classroom situation. Application and adjustments of techniques will be accomplished. This course is intended for undergraduate students who are currently enrolled in student teaching and for graduate students who are currently enrolled in elementary, or special education programs.

Prereq: for 483, Junior standing and student teaching, for 883M graduate standing. (S)

485/885M Introduction to the Physically Handicapped. A seminar 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 and the principles within each will be practiced both in the class and in the student's own classroom situation. Application and adjustments of techniques will be accomplished. This course is intended for undergraduate students who are currently enrolled in student teaching and for graduate students who are currently enrolled in elementary, or special education programs.

Prereq: for 485, Junior standing and student teaching, for 885M graduate standing. (S)

486V5 Clinical Practicum in Speech Pathology (3) This course provides for study and experience in speech therapy in a clinic setting. Prereq: For 485, Junior standing and 6 hours of speech pathology courses including voice problems.

487V Speech Problems of Cerebral Palsied Children (3) Identification of types of cerebral palsy by a location of lesion, motor symptoms, and additional handicaps; the role of the speech clinician in the team; and treatment techniques with special emphasis on the booth approach; current research and controversial issues will be discussed. (F,Prereq: Graduate standing and 6 hour speech pathology courses including voice problems.)

488V Acoustic Neuroma. A seminar designed to discuss the problems of those who desire a basic overview of skills and techniques needed in the education and training of the speech clinician but who cannot be admitted. (F, Su, Prereq: 437 and graduate standing.)

494V1A Teacher Severely/Profundly Handicapped. (The course is open to students desiring graduate credit for those seeking professional development who are not limited to public school settings, all efforts are made to involve clients who have age or special needs and concerns in specific areas. The course is open to students desiring graduate credit, for those seeking professional development, and for students desiring to work for a degree. Prereq: SPED 460/460.)

494V1C Theoretical Approaches to Teaching The Developmentally Disabled Child (3) This is an advanced methods course for graduate students majoring in Special Education. It will be offered to graduate students in the following areas of specialization: learning disabilities, education of the deaf, and education of the severely/profondly handicapped.

494V1A Speech Pathology (3) This course involves in practicum the course follows the first course which is the first student's first experience in clinical practice. It is designed to give graduate students who have more than one year of clinical experience in a semester of closely supervised practice an opportunity to get this experience before being placed in a setting away from the university. (F, Prereq: Permission of instructor.)

494V1A Audiometric Clinical Practicum in Speech Pathology (3) This course provides the student with an opportunity for a valuable experience in clinical practice in either a school or a medical setting. A minimum of 45 clock hours of work is required for each hour of credit. Prereq: For 451 and graduate standing.

494V1A Speech Pathology (3) The student is placed in an agency such as a group home or a cooperative teaching situation. A minimum of 45 clock hours of work is required for each credit hour per semester. (F,S) Prereq: Speech Pathology and Audiology 300. (F, Prereq: Speech Pathology and Audiology 300.)

583V Seminar in Speech Pathology (3) Students select one area of current concern in speech pathology; initial sur-ve, annotated bibliography, presentation of observation and conclusions, seminar discussions of findings. Instructor will base his lectures on topics chosen by students. Prereq: 451, Special Education 443. (F,S,Su)

583V5 Special Projects in Speech Pathology (3) Special projects in speech pathology. Prereq: For 451, Junior standing and 2.5 GPA. (F,Su)

585V4 Special Projects in Speech Pathology (3) Special projects in speech pathology. Prereq: For 451, Junior standing and 2.5 GPA. (F,Su)

586V Diagnostic Methods in Communicative Disorders (3) Texts and procedures for evaluation and treatment with communicative disorders; principles in differential diagnosis and report writing; observation of professionals in speech, hearing, and reading centers. (F) Prereq: Graduate standing and 6 hours of speech pathology.

587V Speech Science III: 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 functions related to speech and hearing. Prereq: Graduate standing and 2.5 GPA. (Su)

587V Clinical Practicum in Speech Pathology (3) A course for advanced students in which the student will be placed in a speech pathology clinic which will provide the student with the necessary experience and opportunities to enter a graduate program in speech pathology. Prereq: For 451 and graduate standing. (F,S) Prereq: 585V.

587V Clinical Practicum in Speech Pathology (3) A course for advanced students in which the student will be placed in a speech pathology clinic which will provide the student with the necessary experience and opportunities to enter a graduate program in speech pathology. Prereq: For 451 and graduate standing. (F,S) Prereq: 585V.

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... and legislation, the relationship between public opinion, propaganda, and the mass communication process. Prereq: For 490, junior standing.

490-491/890M-891M Seminar in Mass Communication (3) A senior seminar, focusing on mass communication theory, research, and politics. Prereq: For 490, junior standing and 6 hours of journalism.

Speech

897M-898M Independent Study in Communication (1-3) An independent study under the sponsorship of a member of the faculty providing preparation and development in mass communications. Prereq: For 490M, junior standing and 6 hours of journalism.

11217M Studies in American Public Address (3) Study of representative speeches from the eighteenth century to the present. Prereq: For 412, junior standing and 9 hours of speech. For 812M, 9 hours of speech.

11817M Organizational Communication (3) Communication in relation to the translation of messages, both within and between various organizations. Theoretical and practicable methodologies and procedures for communicating, teaching, and training—especially using modern electronic media. Prereq: For 886M, 9 hours of speech.

Communication

Journalism

420/820M Theories of Mass Communication (3) An examination of theoretical, historical, and theoretical traditions in the philosophy and sociology of mass communication. Prereq: For 820M, 9 hours of communication.

423/823M Public Relations (3) A study of the principles, problems, and techniques of public relations. Prereq: For 823M, 6 hours of communication.

435-435M Seminar in Research (3) An advanced course in reading for graduate and postgraduate students relating to in-depth studies of significant research in mass communication. Prereq: For 435, junior standing.

437/837M Communication Workshop (3) A study of the evolving role of the mass media in shaping political activities in our contemporary democratic society. Prereq: For 437, junior standing and 9 hours of communication.

445/845M History of Broadcasting in the U.S. (3) An historical, critical, and theoretical study of the political and social foundations of broadcasting in the United States, from its inception to the present. Prereq: For 845M, junior standing.


456/856M Broadcasting Sales Seminar (1) A study of the overall structure and operations of the broadcasting industry, including sales and sales promotion. Prereq: Nine hours of broadcast courses including Comm 399.

497/897M Communication Internship (3) A workshop to explore and develop new communication theory and skills for students to develop skills in the formulation and execution of such experiences, and to increase awareness of the pragmatics of communications. Prereq: Comm. 150 or permission of instructor.

844/845 General Seminars: A System of Inquiry (3) A seminar, designed to enhance understanding and individualization. Developing...
awareness, self-actualization and empathic orientations—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, junior 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.

601V Introduction to Research in Speech (1) (3) Basic components, functions, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal.

611V Seminar: Modern Public Address (3) Studies in figures, movements and institutions prominent in modern public address. May be repeated. Prereq: Graduate standing or permission.

615V College Debate Workshop (5) (3) A comprehensive analysis of the current intercollegiate debate proposition. Also stresses methods of coaching debate and tournament management at the college level. Students taking this course may not receive credit for Speech 612m, directing forensics, toward a degree at UNO. Prereq: Graduate standing and permission.

830V Seminar in Broadcasting (3) Substantial 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.

910 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. (Brillhart) Prereq: Speech 810 or equivalent, or basic statistics, or permission of instructor. (Same as Sociology 840 and Psychology 910).

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 956 and Psychology 956).

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 adopts 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 applies them as learning units for the junior high industrial laboratory. Prereq: For 421, junior.

Urban Studies

801V 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.

825V 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.
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<tr>
<th>Name</th>
<th>Title(s)</th>
<th>Date/Institution</th>
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</thead>
<tbody>
<tr>
<td>ROBERT L. ACKERMAN</td>
<td>Elementary and Early Childhood Education</td>
<td>E.D., University of Nebraska-Lincoln, 1966; Professor</td>
</tr>
<tr>
<td>PAUL B. ACKERSON</td>
<td>Secondary/Post-Secondary Education</td>
<td>Ed.D., Oklahoma State University, 1965; Professor</td>
</tr>
<tr>
<td>FREDERICK W. ADRIAN</td>
<td>History</td>
<td>Ph.D., Ohio State University, 1942; Professor</td>
</tr>
<tr>
<td>JAMES C. AKERS</td>
<td>Special Education</td>
<td>Ed.D., Oklahoma State University, 1969; Associate Professor</td>
</tr>
<tr>
<td>LARRY ALBERTSON</td>
<td>Health, Physical Education &amp; Recreation</td>
<td>Ed.D., University of Georgia, 1973; Associate Professor</td>
</tr>
<tr>
<td>DAVID M. AMBROSE</td>
<td>Marketing</td>
<td>D.B.A., George Washington University, 1971; Associate Professor</td>
</tr>
<tr>
<td>CLIFFORD ANDERBERG</td>
<td>Philosophy and Religion</td>
<td>Ph.D., University of Wisconsin-Madison, 1953; Professor</td>
</tr>
<tr>
<td>SUNNY ANDREWS</td>
<td>Social Work</td>
<td>Dr.P.H., Johns Hopkins University, 1972; Assistant Professor</td>
</tr>
<tr>
<td>AARON ARMFIELD</td>
<td>Special Education</td>
<td>E.D.D., University of Northern Colorado, 1964; Professor</td>
</tr>
<tr>
<td>WALTER M. BACon, JR.</td>
<td>Political Science</td>
<td>Ph.D., University of Denver, 1976; Assistant Professor</td>
</tr>
<tr>
<td>BRUCE P. BAKER, II</td>
<td>English</td>
<td>Ph.D., Texas Christian University, 1968; Professor</td>
</tr>
<tr>
<td>GEORGE W. BARGER</td>
<td>Sociology</td>
<td>Ph.D., University of Missouri-Columbia, 1964; Professor</td>
</tr>
<tr>
<td>NICHOLAS BARISI</td>
<td>Geography and Geology</td>
<td>Ph.D., Clark University, 1967; Professor</td>
</tr>
<tr>
<td>GORDON M. BECKER, GF</td>
<td>Psychology</td>
<td>Ph.D., University of Pittsburgh, 1955; Professor</td>
</tr>
<tr>
<td>RONALD S. BEER</td>
<td>Educational Administration and Supervision</td>
<td>Ph.D., Kent State University, 1969; Associate Professor</td>
</tr>
<tr>
<td>BILL D. BELL, GF</td>
<td>Gerontology</td>
<td>Ph.D., University of Missouri, 1973; Associate Professor</td>
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<tr>
<td>JOSEPH V. BENAK</td>
<td>Civil Engineering</td>
<td>Ph.D., University of Illinois-Urbana, 1967; Professor</td>
</tr>
<tr>
<td>ROBERT W. BENECKE</td>
<td>Banking and Finance</td>
<td>D.B.A., University of Colorado-Boulder, 1966; Professor</td>
</tr>
<tr>
<td>KRIS E. BERG</td>
<td>Health, Physical Education &amp; Recreation</td>
<td>Ed.D., University of Missouri-Columbia, 1973; Associate Professor</td>
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<tr>
<td>ROGER M. BERG</td>
<td>Elementary and Early</td>
<td>Ph.D., Northwestern University, 1972; Associate Professor</td>
</tr>
<tr>
<td>JOSEPH BERTINETTI</td>
<td>Counseling and Guidance</td>
<td>Ph.D., University of New Mexico, 1972; Associate Professor</td>
</tr>
<tr>
<td>JEROME BIRDMAN</td>
<td>Dramatic Arts</td>
<td>Ph.D., University of Illinois-Urbana, 1970; Professor</td>
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<tr>
<td>JOHN V. BLACKWELL</td>
<td>Art</td>
<td>Ph.D., University of Iowa, 1957; Professor</td>
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<tr>
<td>RICHARD H. BLAKE</td>
<td>Counseling and Guidance</td>
<td>Ed.D., University of Missouri-Columbia, 1968; Professor</td>
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<td>WILLIAM BLIZEK</td>
<td>Philosophy and Religion</td>
<td>Ph.D., University of Missouri-Columbia, 1970; Associate Professor</td>
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<tr>
<td>THOMAS BRAGG</td>
<td>Biology</td>
<td>Ph.D., Kansas State University, 1974; Assistant Professor</td>
</tr>
<tr>
<td>M. JEAN BRESSLER</td>
<td>Psychology</td>
<td>Ph.D., University of Missouri-Columbia, 1966; Professor</td>
</tr>
<tr>
<td>JOHN K. BRILHART, GF</td>
<td>Communications</td>
<td>Ph.D., Penn State University, 1962; Professor</td>
</tr>
<tr>
<td>NAOMI BRILL</td>
<td>Social Work</td>
<td>M.A., Columbia University, 1938; Associate Professor</td>
</tr>
<tr>
<td>MERLE E. BROOKS</td>
<td>Biology</td>
<td>Ph.D., University of Colorado-Boulder, 1956; Professor</td>
</tr>
<tr>
<td>EVAN L. BROWN, GF</td>
<td>Psychology</td>
<td>Ph.D., University of Washington, 1969; Associate Professor</td>
</tr>
<tr>
<td>WILLIAM M. BROWN</td>
<td>Marketing</td>
<td>Ph.D., University of Pittsburgh, 1957; Professor</td>
</tr>
<tr>
<td>BARBARA E. BUCHALTER</td>
<td>Mathematics</td>
<td>Ph.D., University of Arizona, 1968; Professor</td>
</tr>
<tr>
<td>SIDNEY BUCHANAN</td>
<td>Art</td>
<td>M.A., New Mexico Highlands University, 1963; Associate Professor</td>
</tr>
<tr>
<td>DAVID M. BUHLMANN</td>
<td>Accounting</td>
<td>Ph.D., University of Illinois-Urbana, 1973; Associate Professor</td>
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<tr>
<td>CHARLES M. BULL</td>
<td>Marketing</td>
<td>Ph.D., University of Nebraska-Lincoln, 1962; Marketing Professor</td>
</tr>
</tbody>
</table>
Administrative Staff

Robert L. Ackerman......Chairperson, Elementary Education & Early Childhood Education
David M. Ambrose....Asst. Dean, College of Business Administration
Lillian Anthony-Welch......Chairperson, Black Studies
Aaron Armfield......Chairperson, Special Education
George W. Burger......Chairperson, Sociology
Joseph V. Benak......Chairperson, Civil Engineering
Jerome Birdman......Dean, College of Fine Arts
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John M. Christ......Director, Library
James D. Chrysler......Director, Orientation
Constance J. Clausen...Coordinator, Women's Athletics
Hugh P. Cowdin......Chairperson, Communication
Joe Davis......Director, Counseling & Testing
Edward L. Dejnozka......Dean, College of Education
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Herbert Garfinkel......Interim Chancellor
Margaret Gexaman......Chairperson, Mathematics & Computer Science
Thomas Gottierre......Interim Dean

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Robert A. Mortonson......Executive Sec'y, MFN Network
Tom Norwood......Asst. Dean, College of Education
Maureen Pasine......Chairperson, Library-Reference
David A. Peterson......Chairperson, Gerontology

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Paul V. Prior......Chairperson, Biology
Ronald L. Poller......Director, Audio-Visual
Jack B. ReVelle......Chairperson, Decision Sciences
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Donald Skeahan......Director, Student Center
Wilda Stephenson......Chairperson, Goodrich Program
Dale A. Stover......Chairperson, Philosophy & Religion

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Larry R. Trussell......Assoc. Dean, Center for Applied Urban Research
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Gardner Van Dyke......Dean, Student Affairs & Student Development
Floyd T. Waterman......Dean, Center for Urban Education
Vincent Webb......Chairperson, Criminal Justice
Robert W. Welk......Chairperson, Dramatic Arts
Robert H. Woody......Dean, Graduate Studies and Research
Raymond A. Ziefarth......Chairperson, Secondary & Post-Secondary Education
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