Graduate Academic Catalog (1976-1977)

University of Nebraska at Omaha
<table>
<thead>
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<th>Field of Study</th>
<th>Course Numbers</th>
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<tr>
<td>Counseling and Guidance</td>
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<td>Dramatic Arts</td>
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<td>Educational Administration and Supervision</td>
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<td>General Engineering</td>
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<td>Geography and Geology</td>
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<td>Health, Physical Education and Recreation</td>
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<td>History</td>
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<td>Home Economics</td>
<td>77</td>
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<td>Industrial Management</td>
<td>78</td>
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<tr>
<td>Mathematics and Computer Science</td>
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<td>Mathematics and Computer Science</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Political Science</td>
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<td>Psychology</td>
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<td>Secondary/Post-Secondary Education</td>
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<tr>
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<td>Special Education</td>
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**ACADEMIC CALENDAR**

<table>
<thead>
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<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>First Semester 1976-77</td>
<td></td>
</tr>
<tr>
<td>Orientation</td>
<td>July 15</td>
</tr>
<tr>
<td>First day for submitting credentials for admission to Graduate Studies for First Semester 1976-77.</td>
<td></td>
</tr>
<tr>
<td>Orientation</td>
<td>July 19-Aug. 20</td>
</tr>
<tr>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1976-77.</td>
<td></td>
</tr>
<tr>
<td>Orientation</td>
<td>Aug. 13</td>
</tr>
<tr>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1976-77.</td>
<td></td>
</tr>
<tr>
<td>Registration (Field House).</td>
<td>Aug. 14-15</td>
</tr>
<tr>
<td>Beginning of academic year.</td>
<td>Aug. 25</td>
</tr>
<tr>
<td>Change of class schedules.</td>
<td>Sept. 1-8</td>
</tr>
<tr>
<td>First Semester begins at 0700 both day and evening classes.</td>
<td></td>
</tr>
<tr>
<td>Labor Day, University closed.</td>
<td>Sept. 6</td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>Oct. 11</td>
<td></td>
</tr>
<tr>
<td>First day for filing applications for degrees to be conferred in December.</td>
<td></td>
</tr>
<tr>
<td>Due: Mid-term (6th week) report from faculty of grades under C for all undergraduates.</td>
<td></td>
</tr>
<tr>
<td>Nov. 17</td>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>Nov. 21</td>
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</tr>
<tr>
<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>
<td></td>
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<tr>
<td>Dec. 15</td>
<td></td>
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<tr>
<td>Last day of classes.</td>
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<tr>
<td>Dec. 16-22</td>
<td></td>
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<tr>
<td>Finals.</td>
<td></td>
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<tr>
<td>Dec. 22</td>
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<tr>
<td>Commencement.</td>
<td></td>
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<tr>
<td>Dec. 24</td>
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<tr>
<td>Thanksgiving Day, University closed.</td>
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<tr>
<td>Dec. 28</td>
<td></td>
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<tr>
<td>Grades due in Registrar's Office at 1200.</td>
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<tr>
<td>Inter-session</td>
<td>Dec. 29-Jan. 14</td>
</tr>
<tr>
<td>Special course offerings.</td>
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</table>

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Second Semester 1976-77</td>
<td></td>
</tr>
<tr>
<td>Orientation</td>
<td>Jan. 7</td>
</tr>
<tr>
<td>Last day for submitting credentials for admission in undergraduate college for the Second Semester 1976-77.</td>
<td></td>
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<tr>
<td>Jan. 7-22</td>
<td></td>
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<tr>
<td>Orientation</td>
<td></td>
</tr>
<tr>
<td>Jan. 10-13</td>
<td></td>
</tr>
<tr>
<td>Registration (Field House).</td>
<td></td>
</tr>
<tr>
<td>Jan. 17</td>
<td></td>
</tr>
<tr>
<td>Change of class schedules.</td>
<td></td>
</tr>
<tr>
<td>Jan. 17</td>
<td></td>
</tr>
<tr>
<td>Change of class schedules.</td>
<td></td>
</tr>
<tr>
<td>Jan. 21</td>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>March 11</td>
<td></td>
</tr>
<tr>
<td>Due: Mid-term (6th week) report of grades under C for all undergraduates.</td>
<td></td>
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<tr>
<td>Apr. 1</td>
<td></td>
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<tr>
<td>Last day for filing applications for degrees to be conferred in May.</td>
<td></td>
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<tr>
<td>Apr. 1</td>
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</tr>
<tr>
<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>
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<tr>
<td>Apr. 4</td>
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<tr>
<td>Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 1976-77.</td>
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<tr>
<td>Apr. 9</td>
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<tr>
<td>Spring vacation begins at 1200.</td>
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<tr>
<td>Apr. 14-15</td>
<td></td>
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<tr>
<td>Holiday, University closed.</td>
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<tr>
<td>Apr. 18</td>
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<tr>
<td>Classes resume 0700.</td>
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<tr>
<td>Apr. 19</td>
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<tr>
<td>Honors Day.</td>
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<tr>
<td>Apr. 29</td>
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<tr>
<td>Status report for all prospective graduating students due in Registrar's Office at 1200.</td>
<td></td>
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<tr>
<td>May 6</td>
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<tr>
<td>Last day of classes.</td>
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<tr>
<td>May 13</td>
<td></td>
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<tr>
<td>Finals.</td>
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<tr>
<td>May 18</td>
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<tr>
<td>Graduation and Commencement.</td>
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<tr>
<td>May 30</td>
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<tr>
<td>Memorial Day, University closed.</td>
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Summer Session 1977

May 16 - July 8
June 1
June 1-2
June 6-8
June 13
June 27
July 4
July 5
July 11
July 11-Aug. 12
July 11-Aug. 27
July 28
Aug. 4
Aug. 13
Aug. 17

Orientation.
Last day for submitting credentials for admission to an undergraduate college for First Summer Session.

Change of class schedules.
First Summer Session.
Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1977.
Second Summer Session.
Last day for submitting credentials for admission to an undergraduate college for the second Summer Session 1977.

Holiday, University closed.
Last day for submitting credentials for admission to an undergraduate college for the Fall Semester 77-78.
Status report for all prospective graduating students due in Registrar's Office by 1200.

Summer Commencement.
Final grades due in Registrar's Office by 1600.

The above dates are subject to change.

DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

<table>
<thead>
<tr>
<th>DEPARTMENT OR AREA</th>
<th>Minor Only</th>
<th>Master of Arts</th>
<th>Master of Science</th>
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<td>Biomedical Engineer}</td>
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<td>Special Work</td>
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<td>Sociology</td>
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<td>Speech Pathology</td>
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<td>Teaching the Deaf</td>
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<td>Teaching the Emotionally Disturbed</td>
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<td>Teaching the Mentally Retarded</td>
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<tr>
<td>Urban Studies</td>
<td>x</td>
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</tbody>
</table>

*Ph.D. in the exception of Industrial psychology and developmental psychology offered in conjunction with the Psychology Department, UNL. Ph.D. in specialties of experimental and school psychology offered in conjunction with the Educational Psychology and Measurement Department, UNL.
GRADUATE STUDIES AT UNO

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

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1949. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College, but in 1973, The Graduate College of the University of Nebraska was established with a University-wide graduate faculty.

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

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

To enable the student to attain these objectives, Graduate Studies at UNO provide graduate courses, workshops, institutes, seminars, research and special problems courses, and the supervision of theses or special projects. Thus the Graduate Faculty at UNO promotes the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society.

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 Midwest Conference on Graduate Study and Research, the Association of University Evening Colleges, the Adult Education Association of the United States, the American Council on Education, 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.

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.

The University of Nebraska at Omaha
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 each 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 relevant academic requirements. The student is responsible for complying with all regulations of the University, Graduate Studies, and the departments of instruction, and for meeting all degree requirements. The advisor should be consulted whenever there is a question concerning degree requirements.

Applications for admission, together with transcripts, must be filed by all 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, or 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 a regional accrediting agency. New students should correspond, 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. Two (2) official transcripts of all undergraduate and graduate work, 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 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 the test has been waived by the cognizant Graduate Program Committee. A final determination of classification will be made after admission to the examinations have been scored.

Graduate students entering the University with a Master's degree who have not taken the GRE prior to their application for admission to Graduate Studies but who have met the advanced area test requirement also reserves the right to withdraw courses, to reassign instructors, and to change tuition and fees at any time.

Admission to Graduate Study does not admit the student to candidacy for any graduate degree. (See "Admission to Candidacy for Graduate Degrees"). The University reserves the right to change the regulations included in this Catalog with respect to admission to Graduate Study, the continuance of graduate study, and the granting of a degree.

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

EXAMINATIONS FOR GRADUATE STUDENTS
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 examinations.

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, Administration Building 213 or the Graduate Office, Admin. 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 the test has been waived by the cognizant Graduate Program Committee. A final determination of classification will be made after admission to the examinations have been scored.

A student who has not taken the GRE prior to his application for admission to Graduate Studies but who has met the above requirements and other evidence of his capability to graduate study, is assigned an initial status. A final determination of classification will be made after admission to the examinations have been scored.

The Graduate student applicant already holding a Master's degree in the field in which the student wishes to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination. This provision does not apply to foreign students whose native language is English.

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 considered. It is a condition of admission to graduate study for students whose native language is English.

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CLASSIFICATION OF ADMISSION
Unconditional
Unconditional admission to graduate study may be granted to a student who has a Bachelor's degree from an institution which is not a regional accrediting institution, from a regionally accredited institution, or from a regional accrediting agency. A student from an institution which is 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.

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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 considered. It is a condition of admission to graduate study for students whose native language is English.
Provisional admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the undergraduate prerequisites for graduate study. This provisional status will continue until such time as the student has completed all of the undergraduate prerequisites for graduate study.

Provisional admission may occasionally be granted to a student who has less than a B average in the undergraduate work in his proposed graduate major and minor, but in no case less than a C average upon recommendation of the department head of the major department and (minor if one is involved) and written approval by the Dean for Graduate Studies and Research. This admission may be made for reasons of maturity, experience, or other extenuating circumstances under which the student may be deemed capable of high quality graduate study. This provisional admission will not be removed until the student has successfully demonstrated to the satisfaction of the Department and the Dean his ability to pursue graduate study.

Acceptance of Senior Credits: Some students who do not anticipate pursuing a degree program may be admitted to graduate study as non degree students. This classification includes:
1. graduate students taking courses for teacher certification
2. graduate students taking courses for admission to educational institutions
3. graduate students taking courses for cultural advancement
4. graduate students taking courses for professional growth

Students who plan to work for the Master's degree with a major in one of the fields of education and who have completed a Bachelor's degree at an accredited institution with not less than a B average may receive up to 12 hours of credit for graduate courses taken as non degree students. This classification includes:

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

Admission to candidacy for graduate degree

Students must have been formally admitted to graduate study prior to their first registration. The candidate for the degree must file an application for degree in the Registrar's Office in the semester or session in which the degree is to be granted. (See Calendar for date.)

Final comprehensive examination

A final comprehensive examination is required of all candidates for the Master's degree near the conclusion of their graduate study. For those candidates writing a thesis, the examination is written one. For those candidates writing a thesis, the final comprehensive examination may be either written or oral at the option of the department concerned. It must be arranged at the convenience of the major advisor. If the comprehensive examination is oral, it should be arranged at the time the written comprehensive examination is given. For those candidates writing a thesis, the examination may be written by the candidate and one-half of the examination may be devoted to the written examination covering the minor field. This does not prejudice the privilege of the minor professor giving a comprehensive, if he so desires. The final comprehensive examination is given at a date arranged at the convenience of both the student and the minor advisor but falling within the limits established for all comprehensive examinations.

Most graduate departments require students to register for the comprehensive examination at the time of their final enrollment; however, students should check with their advisors early in their program to see if they have to register for the comprehensive examination. (Note: In most departments, students who plan degree program completion in August should register for the comprehensive examination in May.)

Results of comprehensive examinations must be submitted to the Graduate Office by the department chairperson no later than twelve working days before conferral of degrees.
**THESIS**

Students electing to pursue the Option I degree program described on page 9 are required to prepare a thesis under the direction of the major adviser supported by a committee. The thesis provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Up to six hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his schedule during at least one semester. The thesis should be completed at least six 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 one a student's personal copy), plus an additional copy if requested by the department, are required. The original must be a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 12-pound weight. Except for the major, the minor area, or any other component of the thesis, which may be reproduced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairperson of the thesis committee, Times New Roman or elite type may be used in typing. It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate Office.

The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in final form with the signatures of the committee members on the approval sheets of all copies no later than twelve working days prior to the degree conferral.

**Thesis Manual:** 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 format. Final theses are to be submitted to the Graduate Faculty. There is an approved official manual for each department and the student will be assisted by his major adviser or department chairperson in preparing the thesis.

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 and appointment. This committee shall consist of members from the major department and at least one additional faculty member from another department of the University. If the thesis examination is to be combined with the oral comprehensive examination (noted above), one-half the time may be devoted to the thesis and one-half the time to the comprehensive examination. The final comprehensive oral examinations are arranged by the department, and it is the student's responsibility to deposit the proper number of copies of the corrected and approved thesis in the Graduate Office together with the signed approval sheets at least twelve working days prior to the conferral of the degree.

The 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 two official transcripts 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 Room 213, Administration Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
3. Arrange your class schedule with your adviser and have him sign your registration slip.
4. 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 accord 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.)
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 incompletes with grades, pay all fees and fines (library, etc.), and satisfy any other obligation you might have to the University at least twelve working days before commencement 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 conferral of the degree. The scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.
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" in any course in either the major or minor area will require action on the part of the department.

A grade of "D" or below in either the major or minor area is considered a failing grade and the student receiving such a grade will automatically be dropped from the degree program. The student thus dropped must secure the approval of the COGNIZANT GRADUATE PROGRAM COMMITTEE before the student is allowed to account further toward the degree. A grade of "D" or below in any other academic, classroom-related item (e.g., grades, cheating, etc.), involving the student submits a written appeal to the graduate faculty. If the initial appeal does not 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 receiving such a grade will automatically be dropped from the degree program. The student thus dropped must secure the approval of the COGNIZANT GRADUATE PROGRAM COMMITTEE before the student is allowed to account further toward the degree. A grade of "D" or below in any other academic, classroom-related item (e.g., grades, cheating, etc.), involving the student submits a written appeal to the graduate faculty.

"I" grades are not used by an instructor at the end of a term to designate incomplete work in a course. Should a student be dropped from the University at the time of the removal, supervise the make-up work and report the permanent grade.

In the event that the student is not available at the time of the student's application for removal of a course in which the instructor shall supervise the make-up work and report the permanent grade. The grade "I" is not computed in the student's GPA.

In the event that the student's GPA is not the requirement for which the student has received a grade "I" must be registered and taken for the course during the following regular term. The grade "I" is not computed in the student's GPA.

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The committee makes a recommendation to the respective dean, and the dean’s decision is then conveyed to the student. If a student wishes to appeal further the decision of the academic dean, a written petition may be submitted to the University Committee on Academic Standards. This committee serves as an appellate function in hearing appeals of students who feel aggrieved on the basis of decisions rendered by the academic dean.

The University Committee on Academic Standards shall recommend appropriate action to the Provost and Vice Chancellor for Academic Affairs.

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

STUDY LOAD

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

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

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

AUDIT

A student wishing to audit a course must secure the permission of his adviser, must register for the course to audit, and must receive the approval of the instructor of the course whose prerogative it will be to determine the privileges including examinations connected with the course. An audit study will not change to credit registration after the first week of a course. (A credit student must receive approval to audit registration during the first eleven weeks of a semester, or during the first half of a class if the course runs longer or shorter than a semester.)

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the academic department concerned. A minimum of sixty credit hours in residence (36 in case of the Master of Science, Master of Arts degree) is required for granting of the Master's degree, except as provision is made for the transfer of credit.

Courses numbered 800G, 800H and 900 are open to graduate students only. Some courses numbered 800L to 800M will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individual research, and special interest projects.

RESIDENCE REQUIREMENTS

A minimum of thirty semester credit hours in residence (36 in case of the Master of Science, Master of Public Administration, Master of Social Work and the Master of Business Administration degrees), is required for graduation, except as provision is made for the transfer of credit. No credit will be allowed for correspondence work.

TRANSFER OF CREDIT

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

Courses which are approved for transfer of credit must not have been used to satisfy the requirements for any previously awarded degree. Grades in courses for transfer of credit must be equal to or better than a grade of "B" or higher. A written request must be made for transfer of credits from an ungraded course elsewhere. The student must have the former instructor submit an evaluation to the Dean for Graduate Studies and Research for his approval.

COURSES FOR WHICH TRANSFER IS REQUESTED

Courses for which transfer is requested must not have been used to satisfy the requirements for any previously awarded degree. Grades in courses for transfer of credit must be equal to or better than a grade of "B" or higher. A written request must be made for transfer of credits from an ungraded course elsewhere. The student must have the former instructor submit an evaluation to the Dean for Graduate Studies and Research for his approval.

The University reserves the right to change the amount of tuition or fees at any time, and to assess charges for breezeway, lost property, fines, penalties, parking, supplies, for special services not included in schedules. Tuition and related fees are payable in full at the time of registration, or in accordance with the payment plan. Students availing themselves of the deferred billing option must familiarize themselves with the due dates, as published. Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Failure to pay tuition and related fees in a timely fashion may result in a student's delinquent status. In the event of financial aid and must consult the Student Financial Aids Officer in Administration Room 169. Registration is not complete until cleared by the Cashier. Failure to pay tuition or fees when due, or to meet payments on loans when due, may result in cancellation of registration, legal collection efforts, or both.

Application Fee (Undergraduate):

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

Residents of Nebraska: $30.00

Non-resident: $25.00

Matriculation Fee (Graduate College):

Payable upon first-time enrollment in the Graduate College.

Tuition:

Per Semester Credit Hour Undergraduate or Graduate:

Residents of Nebraska (non-residency status): $18.00

Non-Resident: $48.25

Audit Fee:

The audit fee is set at one-half of the Resident tuition rate. Registration for audit requires the permission of the instructor and it is subject to available class space after credit registration ends. Students who register to take a course for audit are not eligible to take a course for audit. Students must register for the course in which they wish to enroll before the registration deadlines.

Orientation Fee (Undergraduate):

Payable upon enrollment by all new and transfer undergraduate students.

Special Instructional Fees:

Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the Dean for Graduate Studies and Research.)
Refund Schedule:

Refunds are computed from the date application is received by the Registrar. NOT from date of registration.

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FINANCIAL AID FOR GRADUATE STUDENTS

GRADUATE ASSISTANTSHIPS

Available for qualified students who are enrolled in a graduate degree program are graduate assistantships in teaching, research or laboratory supervision. The assistant's assignment is designed to provide unexcelled opportunities for supervised educational experience at the graduate level in conjunction with the degree program. The stipends range upward from $3070.00. 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 efficiency and the adviser recommends the abnormally high workload. Applications for Graduate Studies and Research for his approval.

Graduate assistants or interns who must earn money for self-support may be required to reduce correspondingly the number of hours for which they may register. Such adjustments shall be subject to the approval of the Dean for Graduate Studies and Research.

Applications and their supporting credentials must be received on or before March 1. Address requests for information and application forms to the Chairperson of the Department in which the assistantship is desired.

TUITION WAIVERS FOR GRADUATE STUDENTS

Tuition waivers are usually available for qualified students who have been admitted to graduate study. Eligibility is based on academic qualifications and financial need. Graduate assistantships and tuition waivers cannot be awarded simultaneously to anyone.

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

TRAVELING SCHOLAR PROGRAM

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

SCHOLARSHIPS

Phi Delta Gamma, a national fraternity for women, offers two annual scholarships of $150 each, to women graduate students who have completed approximately one-half of their graduate work with an excellent record. The Mary Ellen Patterson-Phi Delta Gamma Scholarship and the Nate Boyer-Phi Delta Gamma Scholarship.

Applications and details concerning these scholarships may be obtained from the Dean for Graduate Studies and Research Room 256, 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 Kappa is a national society for graduate women in all fields. Membership is by invitation.

Phi Delta Kappa is a national society for graduate students in Education. Membership is by invitation.

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

Pi Chi is a national honorary society for graduate students in Psychology. Membership is by invitation.

Chi Epsilon is a national honorary organization 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 the degree. 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 programs, serve on the final examining committees for these students and vote on any matters presented to the Graduate Faculty including the election of the Executive Graduate Council and the Graduate Council for UNO.

Requirements for the nomination of Graduate Faculty Members include:

1. The nominee must hold the rank of Assistant Professor or above
2. The nominee must hold the terminal degree normally accepted for academic employment in the discipline or its clear equivalent as determined by the Graduate Committee of the nominee’s department or interdepartmental area.
3. The nominee must have completed at least one year of service at the college or university level subsequent to receipt of the terminal degree or its equivalent.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching.

GRADUATE FACULTY FELLOWS

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

Requirements for the nomination of Graduate Faculty Fellows include:

1. The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
2. The nominee must have published research and scholarly work of quality, or have demonstrated comparable creative achievement.
3. The nominee must be currently involved in research and/or creative work.
4. The nominees 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 conducts graduate policies, procedures and proposed changes, appoints graduate students to the Graduate Council, and approves theses and exams. Information about the structure of the Council, functions of the committee, and academic offerings 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 (2) to recommend allocation of the available funds for research toward these ends, (3) to encourage solicitation of monies for research. Requests for 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 Planning and Research 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 agreements, financial reports, excess property programs, and implementation of workshops, seminars, and
classes on grants development. The Director of Research and Planning reports directly to the Dean for Graduate Studies and Research.

GRADUATE PROGRAM COMMITTEES

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

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

Each new graduate student, in conference with the chairperson of the Graduate Program Committee of his major department, shall select his major adviser. For the student who has a supervisory or advisory committee, the composition of the committee shall be recommended to the Dean for Graduate Studies and Research by the chairperson of the student’s Graduate Program Committee after consultation with the student and his major adviser. At the master’s level, committees of three members are usually sufficient. The chairperson should be a member of the Graduate Faculty and when ever possible, the student’s adviser and thesis director. The representative from a department other than the major must be a member of the Graduate Faculty. In addition to at least three voting members, faculty members in the university system may be appointed to serve on committees (with or without vote) as consultants (or to gain experiences as special representatives of the Dean for Graduate Studies and Research. The Graduate Programs at UNO represent both the Graduate Faculty and the student’s field of study. The word program denotes all kinds of academic requirements which must be satisfied by the graduate student in order to qualify for a particular degree (or in the case of a non-degree student, the program of graduate-level certification or recognized stages of professional development). Every degree candidate’s plan of study must be designed to satisfy the requirements of a program which has been approved by the Graduate Faculty. Both major and minor requirements, together with quality-of-work standards, are included under programs, also included are transfer credits and those electives which are not major or minor courses.

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

CENTER FOR URBAN EDUCATION

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

POLICY ON PLAGIARISM

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

Plagiarism by 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.

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.
DEGREE REQUIREMENTS

BIOLOGY

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

Master of Arts

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

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

The candidate must pass a final oral examination.

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. Also, the student is made aware of the societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business.

Emphasis is placed on decision making and problem solving.

Admission Standards

The minimum standards for students in the MBA program are:

\[ \text{GPA} \times 200 + \text{GMAT} = 970 \]

or

\[ \text{Junior/Senior GPA} \times 200 + \text{GMAT} = 1020 \]

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 "Non-Degree" status until all foundation courses have been completed and acceptable GMAT scores have been received. GMAT must be received prior to the student's enrollment in any graduate courses.

Degree Requirements

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

- Economics: Econ 201 and Econ 202
- Accounting: Acc 201 and Acc 202
- Computers in Business: GB 211
- Quantitative Methods or Principles of Decision Sciences: DS 212
- Statistics: DS 315
- Business Law: L&S 323
- Corporate Finance: BF 325
Economics
BA 890V Thesis

Glasstone, and students may complete a "Satisfaction by Examination" in lieu of course work. The proficiency examinations are scheduled each year in January and August.

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

Core Courses
BA 880V Quantitative Analysis 3 hours
BA 810V Managerial Economics 3 hours
BA 830V Managerial Accounting 3 hours
BA 821V Human Behavior in Organization 3 hours
BA 890V Real Estate and Land Use Economics 3 hours

Option Courses
Option #1 - Business Administration
BA 833V Environment of Management 3 hours
BA 840V Marketing Policies 3 hours
BA 841V Financial Management 3 hours
BA 842V Human Resources Management 3 hours
BA 852V Business Conditions Analysis 3 hours

Option #2 - Marketing
BA 843V Marketing Policies 3 hours
BA 844V Financial Management 3 hours
BA 845V Marketing Management 3 hours
BA 852V Business Conditions Analysis 3 hours
BA 833V Environment of Management 3 hours

Option #3 - Decision Sciences
BA 802V Research Methods in Economics and Business 3 hours
BA 833V Business Information Systems 3 hours
BA 804V Applied Quantitative Analysis 3 hours
BA 834V Business and Society 3 hours
Econ 803V Econometrics 3 hours
BA 890V Independent Research (in Decision Sciences) 3 hours

Option #4 - Real Estate
BA 860V Real Estate and Land Use Economics 3 hours
BA 861V Real Estate and Land Use Economics 3 hours
Econ 856M State and Local Finance 3 hours
BA 890V Thesis 6 hours

Option #5 - Accounting
BA 821V Accounting Theory 3 hours
BA 823V Controlling 3 hours
BA 825V Financial Analysis 3 hours
BA 810V Accounting Theory 3 hours
BA 890V Business Information Systems and Independent Research (in Accounting) 6 hours
BA 899V Thesis 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.

Thesis is required in one program (Real Estate) and may be elected in others. No comprehensive examinations are required. Instead, the integrative course BA 890V must be successfully completed with a grade of A or B in the student's last nine hours of the degree program.

The Graduate Program:

1. Core Courses
2. Option Courses
3. Decision Sciences
4. Real Estate
5. Accounting

CIVIL ENGINEERING

Master of Science

This is a professional graduate degree designed to provide a broad educational background for students who wish to gain greater proficiency and assume positions of greater responsibility in the field of Civil Engineering.
Courses in the program give students a better understanding of the basic principles and methodology used in the design of civil engineering projects. Emphasis is placed on structural Analysis, Decision Making, and Problem Solving.

The degree is offered by the faculty of the merged departments of Civil Engineering at Omaha and Lincoln, and will be administered by the Graduate College. Requirements for the Master’s Degree will be as stated in the Graduate Studies Bulletin, University of Nebraska-Lincoln. Upon admission by the Graduate College, UNL, student records will be transferred to the campus at which the major portion of the graduate courses will be taken. Normally the faculty advisor will also be on that campus.

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

Admission to Candidacy

Options for the Masters Degree Bulletin University of Nebraska - Omaha at admission to the Graduate College. Psychology used also be on that campus.

Graduate Work, Graduate work in Civil Engineering is governed by the general requirements of the Graduate College. Selection of the option and program are subject to approval of the students’ advisor and the departmental Graduate Committee. A student applying for admission should designate the primary area in which he wishes to study. Major work for the Master of Science degree may be selected from the areas of structural, geotechnical, transportation, hydraulic, sanitary, and water resources engineering. A minor area may be designated from any one of the related Civil Engineering areas, or from other related departments. Other supporting courses will be selected from advanced or graduate courses having some relation to the major group.

COMMUNICATION

Master of Arts

An applicant for graduate study in Communication (Broadcasting or Speech) must present a minimum of 15 undergraduate semester hours in appropriate courses in communication and adjacent courses beyond the introductory course, including advanced work in the area of graduate concentration. Deficiencies must be made up during the first year of graduate study. The student may major in Speech and/or minor in Journalism. Students who intend to become graduate candidates must complete one research course (601V), one theory course (602V), one additional course in the area of major emphasis, and complete one of the following plans of study.

Plan I: Successful completion of 24 semester hours of course work including at least 12 hours in 600V and 900 level classes; plus a thesis (6 credit hours) based on a proposal approved by the student’s committee, and defense orally before the committee.

Plan II: Successful completion of 30 semester hours of course work including at least 18 hours in 600V and 900 level courses, (at least 18 hours must be in the student’s field of concentration) and an independent research or creative project in writing, work, or a written examination over his area of major emphasis for a major or minor area studies, judged by a faculty committee.

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

COUNSELING AND GUIDANCE

Students may begin a program 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. Full time study is encouraged, and the program is designed for those unable to devote more than part-time to their program. All students are required to follow a sequence of course work, whether full or part-time, and must consult their advisor to determine this sequence. Failure to do so could result in a delayed completion date.

Students obtain a Master’s degree in Counseling and Guidance with an area of specialization. Current specialty areas include Elementary School Counseling, Secondary School Counseling (both of which require current teaching certificates for endorsement as a Counselor in Nebraska or Iowa), Agency Counseling, College Student Personnel Services, and Counseling in Gerontology.

Required courses are determined in relation to the student’s previous coursework, experience, and anticipated work setting. Most programs 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 teaching and professional practice.

The program must be completed within three years of admission. Students must complete a minimum of 72 hours toward the major including 15 hours of practicum. Students must complete 24 hours of coursework in the area of specialization. Courses must include 12 hours at the graduate level. Students must complete a minimum of 24 hours in the psychology area of concentration.

Students are required to pass the Counseling Practicum or Internship course at the beginning of the program. Successful completion of a Counseling Practicum or Internship is a requirement for graduation.

The Counseling and Guidance Program has admissions requirements and procedures in addition to those applicable for Graduate Studies as a whole, and prospective students are strongly urged to contact the Department regarding these admissions requirements and procedures. Counseling and Guidance.

The last date for admission into the program in Counseling and Guidance is April 15 for either Summer Session and the Fall Semester of 1977, and November 15 for the Spring Semester of 1978. Students are admitted to the program in Counseling and Guidance twice each year. If students wish to begin the program at a different time from those indicated, they may contact this faculty in the department.

Master of Arts

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

Master of Science

Specialization in Agency Counseling

I. Foundation Courses

FED 681V, Introduction to Research
FED 801V, Advanced Educational Psychology
FED 812V, Advanced Educational Psychology

II. Selected Cognate Courses

These are courses selected in accordance with student’s particular area of interest.

III. Counseling and Guidance Courses

COU 600V, Principles of Guidance and Counseling
COU 620V, Introduction to Counseling Theories
COU 630V, Occupational and Educational Information
COU 802V, Guidance Techniques in Counseling and Guidance
COU 825V, Counseling Practices
COU 830V, Counseling Practices
COU 832V, Community Involvement for Urban Counselors

Specialization in School Counseling — Elementary Level

I. Foundation Courses

FED 801V, Introduction to Research

II. Selected Cognate Courses

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

III. Counseling and Guidance Courses

COU 600V, Principles of Guidance and Counseling
COU 620V, Introduction to Counseling Theories
COU 630V, Occupational and Educational Information
COU 802V, Guidance Techniques in Counseling and Guidance
COU 825V, Counseling Practices
COU 830V, Counseling Practices
COU 832V, Counseling Practices

Specialization in School Counseling — Elementary Level

I. Foundation Courses

FED 801V, Introduction to Research

II. Selected Cognate Courses

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

III. Counseling and Guidance Courses

COU 600V, Principles of Guidance and Counseling
COU 620V, Introduction to Counseling Theories

IV. Counseling and Guidance Courses

COU 600V, Principles of Guidance and Counseling
COU 620V, Introduction to Counseling Theories

V. Counseling and Guidance Courses

COU 630V, Occupational and Educational Information
COU 825V, Counseling Practices
COU 830V, Counseling Practices
COU 832V, Counseling Practices

Specialization in School Counseling — Elementary Level

COU 831V, Child Assessment in Elementary School Guidance
COU 832V, Counseling Elementary School Children

* Teaching certificate required or institutional endorsement to serve as secondary or elementary school counselors in Nebraska or Iowa.
Practicum or Internship (4-6 hours)
Selected additional courses in the department.

Specialization in College Student Personnel Services

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

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

III. Counseling and Guidance Courses
Mental Health and Student Activities
COUN 824V, Counseling Practicum
9 hours
COUN 825V, Counseling Practicum
9 hours
COUN 827V, Group Techniques in Guidance
3 hours

Related Core Courses

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
6 hrs.

Related Core Courses
Required Core Courses (student selects 2 with advisor approval)
804V, Seminar in Community Services and Treatment
805V, Seminar in Criminal Justice Process
806V, Seminar in Institutional Rehabilitation
807V, Theoretical Criminology
808V, Seminar in Delinquency Prevention, Control and Correction
811V, Special Problems in Criminal Justice
12 hrs.

Related Cognate Courses
(Consult with advisor 6 hrs. from each of two areas)

Counseling and specializations in Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.

Completion of an approved thesis.
Successful oral defense of thesis.

Master of Arts in Corrections

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
6 hrs.

Related Core Courses
Required Core Courses (student selects 2 with advisor approval)
804V, Seminar in Community Services and Treatment
805V, Seminar in Criminal Justice Process
806V, Seminar in Institutional Rehabilitation
807V, Theoretical Criminology
808V, Seminar in Delinquency Prevention, Control and Correction
811V, Special Problems in Criminal Justice
12 hrs.

Related Cognate Courses
(Consult with advisor 6 hrs. from each of two areas)

Counseling and specializations in Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.

Completion of an approved thesis.
Successful oral defense of thesis.

Master of Science in Corrections

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
6 hrs.

Related Core Courses
Required Core Courses (student selects 2 with advisor approval)
804V, Seminar in Community Services and Treatment
805V, Seminar in Criminal Justice Process
806V, Seminar in Institutional Rehabilitation
807V, Theoretical Criminology
808V, Seminar in Delinquency Prevention, Control and Correction
811V, Special Problems in Criminal Justice
12 hrs.

Related Cognate Courses
(Consult with advisor 6 hrs. from each of two areas)

Counseling and specializations in Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.

Completion of an approved thesis.
Successful oral defense of thesis.

Master of Science in Law Enforcement

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
804V, Seminar in Criminal Justice Process
808V, Seminar in Institutional Rehabilitation
811V, Special Problems in Criminal Justice
12 hrs.

Related Core Courses
Required Core Courses (student selects 2 with advisor approval)
804V, Seminar in Community Services and Treatment
805V, Seminar in Criminal Justice Process
806V, Seminar in Institutional Rehabilitation
807V, Theoretical Criminology
808V, Seminar in Delinquency Prevention, Control and Correction
811V, Special Problems in Criminal Justice
12 hrs.

Related Cognate Courses
(Consult with advisor 6 hrs. from each of two areas)

Counseling and specializations in Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.

Completion of an approved thesis.
Successful oral defense of thesis.

Master of Science in Criminal Justice

Required Core Courses
801V, Criminal Justice Planning and Innovation
802V, Seminar in Administration of Justice
6 hrs.

Related Core Courses
Required Core Courses (student selects 2 with advisor approval)
804V, Seminar in Community Services and Treatment
805V, Seminar in Criminal Justice Process
806V, Seminar in Institutional Rehabilitation
807V, Theoretical Criminology
808V, Seminar in Delinquency Prevention, Control and Correction
811V, Special Problems in Criminal Justice
12 hrs.

Related Cognate Courses
(Consult with advisor 6 hrs. from each of two areas)

Counseling and specializations in Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.

Completion of an approved thesis.
Successful oral defense of thesis.
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 placement 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 program and a program of studies will 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 the student’s field of study.

Option II: Successful completion of 36 semester hours of course work including at least 18 hours in 800V and 899V levels courses, and an independent research or 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 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 36 hours, including the thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, and 829V. The course work under the Master of Arts program consists of 24 hours and 6 hours of thesis under course 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 820V, 822V, and 829V. 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 Urban and Regional Economics. Under this option a student takes 36 hours of course work; 24 hours in course work with a maximum of two three-hour papers. These papers receive credit courses 889V and 899V, Urban-Regional Research. This is also a degree where teachers K-12 grades may concentrate on research concerning economic education in the schools. As part of the required 36 hours, graduate course work in related fields may be taken, up to a total of not more than 12 semester hours.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

Admission to Candidacy

Applicants must have taken nine approved hours with grades of B or better. Students taking course work beyond the nine hours do so at their own risk unless such course work has had prior approval by the appropriate adviser. Normally, a student should expect to take no less than 15 approved hours after Admission to Candidacy.

Applicants must have taken either the Graduate Record Examination Aptitude Test or the Miller Analogies Examination.

3. Applicants must take an Admission to Candidacy application which requires reference recommendations and approval of a program by an adviser. This application should be prepared immediately upon completion of nine hours and the qualifying examination.

Program Design

The Master of Science degree, with a major in Educational Administration, has been designed to allow the student to be either an elementary administrator or a secondary administrator. Along with successful completion of one of the programs, only students with three years of teaching experience will receive institutional endorsement.

MAJOR IN ELEMENTARY ADMINISTRATION AND SUPERVISION

Required Courses

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<td>School Business Management</td>
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<td>School Finance</td>
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<tr>
<td>EDAD 845V</td>
<td>School Plant Planning and Operation</td>
</tr>
<tr>
<td>EDAD 860V</td>
<td>Organization and Admin. of the Physical Plant</td>
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<tr>
<td>EDAD 870V</td>
<td>Administration and Staff Personnel</td>
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<tr>
<td>EDAD 871V</td>
<td>Interpersonal Relationships</td>
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<tr>
<td>EDAD 872V</td>
<td>Admin. &amp; Supervision in Elementary Education</td>
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<tr>
<td>EDAD 880V</td>
<td>Admin. &amp; Supervision in Secondary Education</td>
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<tr>
<td>EDAD 954V</td>
<td>School Law</td>
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Major in Secondary Administration and Supervision

Required Courses

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Roll Call/Regional

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Specialist in Education

This outline of program includes the work which might typically constitute the fifth and sixth years of collegiate work. The total coursework for both M.S. and Ed.S. would accumulate to a total of 66 graduate hours. The program reflects the philosophy which supports graduate education at the
University that each student should be able to design a portion of his program to best harmonize his needs and ambitions. Each program will be designed with the aid of the student's adviser and must be approved by the student's advisory committee.

Students cannot assume that any post M.A. or M.S. degree course work will apply to the Ed.S. degree unless such course work has been included as part of a planned program approved by the student's advisory committee.

### Admission to graduate studies

1. Applicants must furnish all credentials requested in the standard application for admission to Graduate Studies.

### Program Requirements and Procedures

1. Upon admission to Graduate Studies, the applicant must see his adviser in order to obtain an application for admission to the Specialist in Education program.
2. Upon admission to the Specialist in Education program, the applicant returns to his adviser for the purpose of designing a recommended plan of study and selecting a committee of three professors who will determine whether or not the applicant is to be admitted to candidacy.
3. Applicants must hold a Master's degree from a regionally accredited institution. All graduate work taken by the applicant prior to admission to the program must have a grade point average of 3.25.
4. Applicants must hold standard certification in educational administration and show evidence of having completed at least one year of experience as an educational administrator or supervisor.
5. Applicants must have taken either the Aptitude Test of the Graduate Record Examination or the Miller Analogies Test and have scored at the 90th percentile or better. Candidates with scores falling below those indicated may petition the departmental graduate committee for consideration.
6. Candidates are required to pursue a portion of their work in residence. It may be fulfilled in one of the following ways:
   1. As a full-time student (12-hour load) during one semester of the academic year.
   2. As a full-time student (12-hour load) during two consecutive summer terms of the same summer session.

### Program Design

The program has been designed to include the flexibility needed by students who are preparing to become superintendents, principals, administrators of special programs, and supervisors. The cornerstone of the Ed.S. program are the administration seminars EDAD 800U and 801U and the field project (EDAD 811U).

#### Required Professional Courses

- EDAD 800U: Administration and School Law
- EDAD 801U: The Superintendent

#### Elective Professional Courses

- EDAD 810U: School Administration
- EDAD 811U: The Superintendent (21 credits required, nine elected from the Allied Electives List)

#### Selected Cognate Courses

- EDAD 812U: Educational Foundations
- EDAD 813U: Educational Foundations

#### Time Limit for Completion of Program

The student must complete the requirements for the Ed.S. degree during a six-year time limit beginning with the date of entrance to the first course used in the plan of study following the completion of the Master's degree.

### Educational Foundations

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

### Program Requirements

This program will consist of a minimum of thirty-six hours selected from the following course offerings. Twenty-one hours are required; six hours to be selected from the Education Electives List and nine hours to be selected from the Allied Electives List.

#### Required (21 Hours)

- FED 801V: Introduction to Research 3 hours
- FED 802V: Education and Society 3 hours
- FED 803V: Alternative Strategies in Education 3 hours
- FED 804V: Urban School 3 hours
- FED 805V: Practicum or Special Projects 3 hours
- FED 806V: Conflict and Controversy in Urban Education 3 hours
- FED 833V: Anthropology and Urban Education 3 hours

#### Education Electives (9 Hours)

- FED 816V: Mental Health 3 hours
- FED 817V: Growth and Learning Problems of the Disadvantaged 3 hours
- FED 818V: Seminar in Education 3 hours
- FED 819V: Government and Labor 3 hours

#### Allied Electives (9 Hours)**

- ECON 811M: Government and Labor 3 hours

**Allied Electives (9 Hours)**

- ECON 811M: Government and Labor 3 hours

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Note: The program requirements, course offerings, and options are subject to change. Students are advised to consult the latest graduate catalog for the most current information.
UNIVERSITY OF NEBRASKA AT OMAHA

ECON 818M, Collective Bargaining ........................................ 3 Hours
ECON 820V, Economic Education ........................................... 3 Hours
ECON 820V, Economic Education II ........................................ 3 Hours
ECON 820V, Independent Study in Urbanism ............................. 3 Hours
ECON 824V, Interdisciplinary Seminar on Urbanism .................... 3 Hours
ECON 830V, Seminar in Urban Economics ................................. 3 Hours
COLL 880M, Guidance Skills for Secondary Teachers ................... 3 Hours
COL 891M, Group Evaluation Techniques ..................................... 3 Hours
COL 829M, Community Involvement for Urban Counselors .......... 3 Hours
COL 829M, Guidance Services for the Disadvantaged Youth ....... 3 Hours
GEOG 810V, Urban Geography ............................................... 3 Hours
GEOG 899MV, Urbanization .................................................... 3 Hours
GEOG 821V, Cultural Geography ............................................. 3 Hours
HIST 812K, American Social and Intellectual History Since 1865 .... 3 Hours
HIST 827M, 20th Century America, 1933 ................................... 3 Hours
HIST 828M, 20th Century America, 1933-1953 to Present ............. 3 Hours
HIST 844M, American Urban History Since 1870 ....................... 3 Hours
PSY 856V, Learning in Children ............................................. 3 Hours
PSY 859V, Social and Personality Development .......................... 3 Hours
PSY 858V, Tests and Measurement ............................................. 3 Hours
SW 820M, Human Behavior and the Social Environment I ........... 3 Hours
SW 822M, Physical Components of Social Functioning ............... 2 Hours
SW 851M, Public Welfare Organization ..................................... 2 Hours
SW 861M, Public Social Welfare Policies .................................. 2 Hours
SOC 810M, Social Control of Behavior ...................................... 3 Hours
SOC 810M, Collective and Exchange Behavior ............................. 3 Hours
SOC 810M, Advanced General Sociology ................................... 3 Hours
SOC 810M, The Community .................................................... 3 Hours
SOC 810M, Sociology of Deviant Behavior ................................ 3 Hours
SOC 810M, Seminar in Cross Cultural Communication ............... 3 Hours
SOC 852M, Complex Social Organizations ................................. 3 Hours
SOC 875M, Social Change ..................................................... 3 Hours
SOC 889M, Independent Study on Urbanism ............................... 3 Hours
BUS 811V, Business and Society ............................................. 3 Hours
BUS 831V, Human Behavior in Organization ............................. 3 Hours
CE 890M, Urban Systems I ..................................................... 3 Hours
GEO 810M, Geographical Understanding ................................. 3 Hours
GER 810M, Educational Geology ............................................. 3 Hours
JOUR 850M, Mass Communications and Public Opinion .............. 3 Hours
JOUR 850M, Urban Studies ..................................................... 3 Hours
JOUR 850M, The Metropolitan as a Public Enemy ....................... 3 Hours
JOUR 850M, Race Ethnicity, and American Culture ................... 3 Hours
**Other courses may be substituted with approval of Urban Committee

ELEMENTARY AND EARLY CHILDHOOD EDUCATION

Master of Arts

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

Master of Science

Admission to the Program

1. An applicant must hold a valid elementary school teaching certificate.

2. Unconditional admission is granted if and when:
   a. undergraduate major average is 3.0 or above.
   b. Graduate Record Examinations are completed with acceptable scores.
   c. any undergraduate deficiencies are made up.

3. Graduate Record Examinations (Verbal, Quantitative, and Advanced Education) must be taken before a second registration. An acceptable score must be earned.

CANDIDACY FOR THE DEGREE

1. A plan of study and admission to candidacy are completed in conference with the student's advisor when 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. Authorization for the examination must be made to the Office of Graduate Studies in the department. The examination covers coursework taken and its content is determined by each individual student's program.

Degree Program

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>21 hours</th>
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</thead>
<tbody>
<tr>
<td>FED 801V, Introduction to Research</td>
<td>3 hours</td>
</tr>
<tr>
<td>FED 802V, History and Philosophy of Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>EED 810V, Diagnostic and Corrective Instruction</td>
<td>3 hours</td>
</tr>
<tr>
<td>EED 847V, Innovations and Trends in Elementary Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>EED 848V, Introduction to Curriculum Planning — Elementary</td>
<td>3 hours</td>
</tr>
<tr>
<td>EED 849V, Seminar in Elementary Education</td>
<td>3 hours</td>
</tr>
<tr>
<td>EED 850, Administration and Supervision in Elementary Schools</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

Area of Concentration

9-12 hours

Each student must 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 Public School Administration, English, French, German, Spanish, Biology, Chemistry, Social Studies, Mathematics, Physical Education, Political Science, Business Administration.

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 for such courses.

ENGLISH

Master of Arts

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

All candidates for Master of Arts degrees in English are required to take English 801V (Introduction to Literary Research) and to complete one of the following plans of study:

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

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


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 800A-800W and 900, and thesis 1-6 hours.

Option II may be chosen upon the approval of the major adviser. This option requires a minimum of 25 semester hours in geography courses numbered 800M or 800M-200, or selected cognate courses in other departments. No thesis is required for this option. Students who have taken the degree under Option II and later elect to continue in graduate work for the Ph.D., will not be encouraged by the department to continue unless evidence of ability to carry on independent research is presented.

**Admission Requirements**

An applicant for admission to either the Master of Arts or the Master of Science degree program in geography must present a prerequisite of a minimum of 15 undergraduate semester hours of geography including Physical (105 or 107 or 117) and Cartography (263) or the equivalent. These students must meet these requirements must make up the deficiency during their first year of graduate study.

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

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

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**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. Students pursuing the Master of Science Degree in a major in physical education will select course work from the five areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. The student in consultation with the major adviser will determine the exact courses leading to the degree.

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<thead>
<tr>
<th>AREA</th>
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<tr>
<td>PE 822V Problems and Issues in Physical Education</td>
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<td>II. Research</td>
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<tr>
<td>Research Methods, Statistical Methods</td>
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<tr>
<td>IV. Related Academic Courses</td>
<td>18</td>
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</tbody>
</table>

**Master of Arts**

**Major in Physical Education**

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

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**HISTORY**

**Master of Arts**

Admission to M.A. Program

1. To be admitted unconditionally, a student must present 21 (twenty-one) hours of undergraduate preparation in History with at least a 3.00 average in those hours; further, to be admitted unconditionally, the student must have achieved a grade average of 2.75 in his overall undergraduate work and must follow all other admission requirements for Graduate Studies.

2. Students may be admitted provisionally who have less than 21 (twenty-one) hours of undergraduate preparation, or who have not achieved a 2.75 overall grade average. They shall be denied the degree when they become eligible and have achieved a grade average of 2.75.

3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some related field, such minor to consist of no less than six graduate hours or credits.

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

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

I. 24 semester hours of approved graduate courses in History, 9 of which must be in courses open only to graduate registration, i.e., seminars. The other 15 hours may be either lecture courses numbered 801V. A balance of 15 and 9 hours must be maintained between major and minor areas of study. Seminar study should be divided into 6 and 9, depending upon the student's area of concentration.

II. 15 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved hours of graduate course work in other field, such 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, thesis, not to exceed 6 semester hours in independent study credit, is required under the direction of the major adviser. In the event that less than 6 hours of credit is assigned the thesis project, it should be noted at least half of the total program must be in courses open only for graduate credit.

**M.A. Program without Thesis (Option II)**

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of course work, at least half of which must be earned in courses open only to graduate students (V-series).

2. In addition to obtaining a 3.00 in History, the candidate must prove proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.

3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some related field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be granted by the adviser's permission, and the approval of the M.A. Program Committee.

4. Whether or not the student elects a minor in an outside field, he shall maintain a reasonable balance between American and non-American fields in history.

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**THE GRADUATE CATALOG**

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**Assessment Standards**

The following standards are the minimum assessment standards for the department.

1. The course will include a minimum of 60% of the total course content.

2. The course will include a minimum of 50% of the total course content.

3. The course will include a minimum of 50% of the total course content.

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**Prerequisites**

Students must have completed the prerequisite courses before enrolling in the graduate program.

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**Notes**

*Minimums or maximums are determined by advisor.
for official appointment. The advisory committee shall be composed of members of the Fac­
ulty appropriate to the student's program and academic interests. The chairperson of the ad­
visory committee (and the representative of the minor field, if such field is selected) must be
members of the Graduate Faculty.

PROCEDURE FOR COMPREHENSIVE EXAMINATION FOR NON-THESIS MASTER OF ARTS CANDIDATES IN HISTORY
1. Early in the semester the candidate must make arrangements with the sponsor and the re­
   dacting department or in the departments outside of the College of Home Economics. However, if
   Option II or III is selected, the examination must be completed in a department other than those in
   the College of Home Economics, which can be an approved graduate program at UNO.
   Separate programs leading to the master's degree are also offered by the Department of Food and
   Nutrition and the Department of Human Development and the Family.

   Food and Nutrition — Candidates for the Master of Science degree in Food and Nutrition must hold
   a Bachelor of Science degree or a Bachelor of Arts degree from an accredited college and have
   completed undergraduate preparation equivalent to that required in the Basic General Edu­
   cation Core in Home Economics plus at least 10 hours exclusive of freshmen courses in
   Biochemistry, in Microbiology, and in Physiology for a total of at least 18 hours in Food and
   Nutrition. The minor areas to the Food and Nutrition major must be in Chemistry and Biological Science.

   Human Development and the Family — Candidates for the Master of Science degree in Human
   Development and the Family must hold a Bachelor of Science or a Bachelor of Arts degree from an
   accredited college and have completed undergraduate preparation equivalent to that required in
   the Basic General Education Core in Home Economics plus a major of at least 18 hours in exclusive
   of freshmen courses in Human Development and the Family or the equivalent from Psychology, Ed­
   ucation Psychology or Sociology.

   MATHEMATICS

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

   Master of Science

   To obtain the Master of Science degree, the student must:
   a. Earn a total of 26 acceptable credits, at least 24 of which must be in mathematics.
   b. Choose mathematics courses which carry a number of 800M or above and at least 16 credit
      hours which carry a number of 800V or above.
   c. Include courses 825V, 829M, 825V, 833V, 823M-870J in his program if he has not had the equivalent as an undergraduate.
   d. Maintain a "B" average in all of his work with no grade lower than a "C," and no more than
      two grades of "C."
   e. Pass a written comprehensive examination.

   Master of Arts

   To obtain the Master of Arts degree, the student must:
   a. Earn a total of 20 credits in mathematics.
   b. Complete a thesis not to exceed 6 semester hours, which may be applied toward the 30-hour
      total.
   c. Complete the requirements of b, c, d, and e above.

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

   A student meeting the following two conditions will be admitted to the M.A.T. program
   a. has state certification for teaching secondary school mathematics.
   b. has maintained at least a "B" average in previous mathematics course work including at
      least two courses beyond elementary calculus.

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

   Master of Arts for Teachers of Mathematics

   To obtain the M.A.T. degree, the student must:
   a. Earn a total of 36 credits, of which 24 must be in mathematics.
   b. Include in his program mathematics courses 801T, 802T, 803T, 804T, 823M-870J (Courses
      823M-870J may be waived if the equivalent undergraduate courses have been taken).
   c. In his program secondary education courses 850V, 858V, and at least one additional
      secondary education course 850V, 858V, or 833V.
   d. As listed under the Master of Science above.
   e. As listed under the Master of Science above.


**POLITICAL SCIENCE**

An applicant for admission to the Master of Arts degree program must have a major in Political Science or present as a prerequisite a minimum of fifteen undergraduate semester hours in Political Science or their equivalent as determined by the department admission committee.

**Master of Arts**

**Degree Requirements:** The program must include twelve hours of the thirty-six hours beyond the Master’s degree. At least half of this coursework must be in courses open only to students majoring in Political Science. Final determination of a student’s plan of study always resides with his adviser and the department. To meet the graduate studies requirements a student must take

1. A. Psychology 906 (Proseminar in Research Methodology)
2. Psychology 921 (Proseminar in Perception)
3. Psychology 910 (Proseminar in Social Psychology)
4. Psychology 944 (Proseminar in Social Psychology)

**PSYCHOLOGY**

**Admission Requirements:** A minimum of 15 undergraduate semester hours in psychology must be completed before admission. In addition to the particular studies requirements as the major must be planned in conference with the student’s academic advisor to meet individual interests and needs.

**Master of Arts**

**Degree Requirements:** For the Master of Arts degree in a major in Political Science, eighteen hours of the required thirty-six hours must be at the 800V level. The remaining hours are elective, but must be planned in conference with the student’s academic advisor to meet individual interests and needs.

**Degree Requirements:** For the Master of Science degree with a major in Psychology, the student must present 36 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 complete one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

1. A. Psychology 906 (Proseminar in Research Methodology)
2. Psychology 921 (Proseminar in Perception)
3. Psychology 910 (Proseminar in Social Psychology)
4. Psychology 944 (Proseminar in Social Psychology)

5. A. Psychology 906 (Proseminar in Research Methodology)
6. Psychology 921 (Proseminar in Perception)
7. Psychology 910 (Proseminar in Social Psychology)
8. Psychology 944 (Proseminar in Social Psychology)

**Required Course Work:** The course program must include twelve hours of the required thirty-six hours beyond the Master’s degree. Additional required course work may be designated by the department. This will ordinarily include courses in the experimental method, data collection, statistical analysis, and report writing; Graduate Record Examination scores on the Verbal, Quantitative, and Advanced Psychology sections; and passing of comprehensive examinations. Exceptions to these admission requirements can be made on an individual basis.

**Master of Arts**

**Degree Requirements:** To complete the M.A. degree with a major in psychology, the student must present thirty-six 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 complete one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

1. A. Psychology 906 (Proseminar in Research Methodology)
2. Psychology 921 (Proseminar in Perception)
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5. A. Psychology 906 (Proseminar in Research Methodology)
6. Psychology 921 (Proseminar in Perception)
7. Psychology 910 (Proseminar in Social Psychology)
8. Psychology 944 (Proseminar in Social Psychology)

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

The remaining of the student’s course work is elective, but must be planned in conference with his academic advisor, in order to meet the individual interests and needs. The student may emphasize one of the following areas: quantitative, physiological, general experimental, social, personality, developmental, educational, and industrial/organizational psychology. Final determination of a student’s plan of study always resides with his advisor and the department. To meet the graduate course work requirements, a student must take at least half of his work in courses which are open only to graduate students.

**Master of Science**

To complete the M.S. with a major in educational/organizational psychology or the M.S. with a major in educational psychology, the student must present thirty-six hours of graduate course work in psychology, or 24 hours in psychology plus 9 hours in a related minor field. The M.S. degree has the same proseminar requirement as the M.A., and all rules concerning proseminar course work are the same in both degree programs.

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 advisor and the department. To meet the graduate course work requirements, a student must take at least half of his work in courses which are open only to graduate students.

**Specialist in Education**

During the 1970-77 academic year the Psychology Department will be offering the Specialist in Education degree with an emphasis on school psychology for the first time. The Ed.S. degree requires completion of sixty-six graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as those for those leading to certification as a School Psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

**Doctor of Philosophy**

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and school psychology, and in developmental psychology. Students may be considered for admission to a doctoral program only after they have been admitted or are doing excellent work toward their Master's degree which includes a demonstration of research skills. There is no generally specified language or research skills requirement for admission. Each student is expected to demonstrate proficiency in languages, research methods, and skills, or knowledge in collateral research areas appropriate for his research interests as determined by his Supervisory Committee and the department. Specific requirements and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

**Summary of Procedure for the Doctor of Philosophy Degree**

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

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

**Professional Programs in the Area of School Psychology**

**School Psychologist**

Students are admitted to the graduate program leading to a recommendation for certification as a school psychologist. Application for such admission must be filed with the Psychology Department accompanied by a vita and three letters of recommendation. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. The application should include two official transcripts of all previous college work and scores for the Graduate Record Examination Aptitude Test. Students are assigned to a graduate advisor and the department. To meet the graduate student's degree, the student must complete requirements for the Master of Science in Educational Psychology or its equivalent as determined by the department admission committee. 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 advisor and the department. To meet the graduate course work requirements, a student must take at least half of his work in courses which are open only to graduate students.

**Specialist in Education**

During the 1970-77 academic year the Psychology Department will be offering the Specialist in Education degree with an emphasis on school psychology for the first time. The Ed.S. degree requires completion of sixty-six graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as those for those leading to certification as a School Psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

**Doctor of Philosophy**

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and school psychology, and in developmental psychology. Students may be considered for admission to a doctoral program only after they have been admitted or are doing excellent work toward their Master's degree which includes a demonstration of research skills. There is no generally specified language or research skills requirement for admission. Each student is expected to demonstrate proficiency in languages, research methods, and skills, or knowledge in collateral research areas appropriate for his research interests as determined by his Supervisory Committee and the department. Specific requirements and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.
equivalent. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of electives. However, the final decision on the appropriateness of a program rests with the Psychology Department. Students should contact the School Psychology Committee when starting their studies in order to facilitate individual program planning.

1. Required Courses in Psychological Methods

Psychology 831M (or 431) Psychological and Educational Testing
Psychology 800V The Profession of Psychology
Psychology 853V Individual Tests
Psychology 854V Individual Tests II
Psychology 851V Advanced Educational Psychology
Psychology 558 Personality Assessment
Psychology 879 Topical Seminar in School Psychology (3-9 hours)

One of the following two courses
Psychology 865V Introduction to Therapeutic Techniques with Children
Psychology 867V Behavior Modification

One of the following four courses
Psychology 865M (or 455) Retardation
Psychology 869M (or 455) Psychology of Exceptional Children
SPED 880V Teaching the Exceptional Child
SPED 886M (or 460) Introduction to the Mentally Subnormal Child

2. Required Professional Education Courses

COUN 924V Counseling Practices
EOAD 830V Foundations of Educational Administration and Supervision
SEED 830V Emerging School Curriculum

3. Required Supporting Work

One of three courses in basic psychology (outside the student's area of specialization) and/or one to three courses in Special Education, Counseling and Guidance, or other professional education fields other than those specified as requirements.

Psychological Assistant

Students who are pursuing work toward endorsement in Nebraska as a Psychological Assistant must simultaneously complete requirements for the M.A. or M.S. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for degree candidacy in order to ensure that required courses are included in the plan of study for the degree. In any event, students must have been accepted in this program before enrolling in Psychology 831M (or 431) and 853V. Application should be made to the Psychology Department and three letters of recommendation are required. Required courses in this program are: Psychology 831M (431), 800V, 853V, 854V, and 857V. Also, one of the following is required: Psychology 855M (or 455), Psychology 857V (or 859M), Psychology 897V.

One of the following two courses

ED AD 835V Foundations of Educational Administration and Supervision

One of the following four courses

P.S. 805M, The Judicial Process
P.S. 819V, Seminar in Public Administration
Econ 856M, State and Local Finance
P.S. 815V, Seminar in Public Law

Two of three courses in basic psychology (outside the student's area of specialization) and/or one to three courses in Special Education, Counseling and Guidance, or other professional education fields other than those specified as requirements.

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

Students, for students to be admitted unconditionally to the M.P.A. program, must have completed as prerequisites a course in each of the following: Introduction to Public Administration, Accounting, and Statistics. In addition, if the student's undergraduate preparation 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.

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courses for graduate credit may be taken simultaneously if the prerequisites for these courses have been met. No student will be permitted to take a graduate course in Public Administration without having had an introductory course in administration unless expressly granted a waiver in writing by the Departmental Graduate Committee.

The student will be assigned an advisor in the Public Administration Department. If he/she chooses an option in Political Science, Social Work, or Gerontology, an adviser from the optional field will also be assigned to the student.

The Graduate Catalog 45

Degree Requirements

Thirty-six hours consisting of thirty hours of course work plus 6 hours of internship in a public agency for 4-12 months. The internship may be waived for prior service in a civilian public or semi-public agency. Requests to waive the internship shall be submitted to the departmental graduate committee upon application for candidacy. In lieu of the internship, if waived, the student must take six additional hours of approved course work. Eighteen hours of the course work must be at the 800V 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 scores on the Graduate Record Examination must be on file in the Graduate Office; (2) nine hours of graduate credit must have been completed at this University; and (3) a grade average of "B" with no grade lower than "C"; and (4) removal of all deficiencies specified for admission.

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

Application forms should be filled out by the student — in consultation with his major and minor advisers. The student can qualify for admission to candidacy. Both the major and minor programs should be carefully and completely planned at this time and the application should be signed by both the major and minor advisors. The application form and the plan of study should be filed in the Graduate Office and copies should be provided for the major adviser, the minor adviser, and the student.

Plans of study shall 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, the minor adviser if the minor is concerned, and the approval of the UNO Dean for Graduate Studies and Research.

Courses Required of all Options

P.A. 840M, Public Budgeting or 848V Seminar in Public Administration if credit has been earned in 440/840M
P.A. 841M, Public Personnel Management or 846V Seminar in Personal Personnel Administration if credit has been earned in 441/841M
P.A. 800V, Seminar in Research Methods in Political Science and Public Administration
P.A. 842V, Seminar: Introduction to Public Organizations
P.A. 844V, Seminar: Introduction to Organization Development in Public Agencies
P.A. 803U-804U, Internship

General Public Administration

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

P.S. 804M, The Legislative Process
P.S. 805M, The Judicial Process
P.A. 843M, Municipal Administration
P.A. 810V, Seminar in Public Administration
Econ 856M, State and Local Finance
P.S. 815V, Seminar in Public Law
P.A. 830V, Seminar in Public Policy
P.A. 846V, Seminar in Public Personnel Management
Econ 856M, State and Local Finance
P.A. 865V, Seminar in Administrative Law
P.A. 861V, Urban Seminar in Metropolitan Planning and Development
Econ 857V, Seminar in Regional Economics
P.A. 892V, Readings in Public Administration
P.A. 894V, Research in Public Administration

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

Gero 811M, Applied Social Gerontology
Gero 865M, Health Issues in Gerontology
Gero 867M, Gerontology Psychology
Gero 867M, Gerontology Psychodynamics

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

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

Required courses: CRP 811, Urbanism and Planning in the U.S. CRP 828, Planning Administration and Implementation

Elective courses: CRP 813, Planning Process and Theory CRP 415/815, Housing Renewal and Development CRP 822, Research Methods for Planning CRP 913, Planning and the Natural Environment CRP 915, Planning Within the Intergovernmental Context

Required courses: CAP 822, Research Methods for Planning CAP 811, Urbanism and Planning in the U.S.

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Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. Two semesters of graduate work in social work.
3. Both options require completion of an individual or group research requirement or its equivalent as defined by the School.
4. The type and credit value of each of the courses is indicated in the course descriptions below.

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 addition the student must demonstrate proficiency in sociology through successful completion of four comprehensive examinations.

Two of these comprehensive — 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 consultation with the Sociology Office.

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.

Bachelor 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 successfully 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.

Calculus

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

SPECIAL EDUCATION

Master of Arts

With a Major in 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. This includes an audio examination.
2. Submit two letters of recommendation from people who know your undergraduate work well.
3. Have successfully completed a minimum of 24 semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents: SPED 431, Introduction to Communication Disorders; SPED 437, Basic Audiology; SPED 438, Speech Science I; SPED 444, Speech Path I; SPED 443, Speech Path I; SPED 433, Speech Reading and Auditory Training; SPED 449, Speech Science II; SPED 450, Communication Disorders in the Elementary and Secondary Schools; SPED 475, Childhood Language Disorders.
4. For those students who wish to proceed to the Master of Arts degree in speech pathology, the student must present a thesis representing six semester hours of work and which is deemed satisfactory by the members of his committee.
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
   b. Elective Courses:
     - Students may choose any of the courses in the area numbered 800V or above.
   c. Thesis:
     - Students must present a thesis representing six semester hours of work and which is deemed satisfactory by the members of his committee.

With a Major in Mental Retardation

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

1. Applicants to the M.A. degree program in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major advisor.
2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.
3. Students must undergo a work course which will lead to:
   a. a major of 24 hours in mental retardation.
   b. a thesis not to exceed six semester hours.
   c. a major of 15 semester hours in mental retardation.
   d. a minor of 6 semester hours in a related field of interest.
   e. 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 pass a comprehensive written examination covering these first twelve hours.
5. Each candidate will submit a thesis proposal to his committee for approval. A thesis will represent six semester hours in independent study under the direction of the major advisor.
6. Subject to review of the applicants transcripts and related experiences with retarded children, required courses may be selected from the following:
   a. Required Courses: FED 801V Introduction to Research
   b. Elective courses may be chosen from any of the 800V-level courses with the major and minor area of study.

Master of Science

With a Major in 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.
Major in Speech Pathology

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

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

2. Have successfully completed a minimum of twenty-four semester hours of work preparatory to graduation to the major. These hours are to include the following courses or their equivalents:
   - SPED 341, Introduction to Communication Disorders
   - SPED 422, Speech Reading and Auditory Training
   - SPED 437, Hearing Loss and Audiology
   - SPED 438, Speech Science I
   - SPED 443, Speech Pathology I
   - SPED 444, Speech Pathology II
   - SPED 445, Speech Science III
   - SPED 450, Communication Disorders: Elementary and Secondary Schools
   - SPED 451, Basic Practicum Speech
   - SPED 475, Child Development Language Disorders

3. For those students who wish to work toward special certificated in the schools, advisor consultation should be sought early in the program and to those already holding special certificated in the schools or a special certificated in another field.

4. Thirty-six hours of course work may be taken from the following:
   - Related Professional Courses
     - SPED 806M, Diagnostic Methods in Communicative Disorders
     - SPED 848V, Diagnostic Methods in Communicative Disorders
   - Elective Courses
     - SPED 822M, Applied Practicum Speech (Schools)
     - SPED 852M, Advanced Practicum Speech (Ext实际)
     - SPED 853M, Seminar in Speech Pathology
     - SPED 870V, Seminar in Special Education
   - Elective Courses in Related Areas
     - Depending upon the student's preparatory work courses, elective courses may be taken in fields such as psychology, sociology, speech, English, special education and other related areas.

Major in 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 state certification and a CED professional certification will be recommended upon satisfactory completion of the program:

- SPED 621M, Illness, Education, and Guidance of the Deaf
- SPED 622M, Teaching Speech to the Deaf I
- SPED 623M, Teaching Speech to the Deaf II
- SPED 624M, Teaching Language to the Deaf I
- SPED 625M, Teaching Language to the Deaf II
- SPED 626M, Speechreading and Auditory Training
- SPED 637M, Basic Audiology
- SPED 638M, Auditory and Speech Mechanisms

Students in this program must pass a written and/or oral examination prior to graduation.

Major in 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 general individual incompetence in teaching mentally retarded children. State certification in EMH and MHD teaching are also available through this program. The following program requirements must be fulfilled:

1. Applicants to the M.S. degree in Mental Retardation must be approved by the Dean for Graduate Study and Research and the major advisor.

2. Applicants should hold a valid teaching certificate. Those holding teaching certificates will be required to take preparatory courses in teacher preparation (the number of courses to be taken will be 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 in Mental Retardation the student must have successfully completed twelve hours of coursework and pass a comprehensive written examination covering the first two courses.

4. Each candidate, having successfully completed thirty-six hours of course work and practicum, will be required to pass the final written examination prior to his/her being recommended for the M.S. degree in major in Mental Retardation.

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

Major in Resource Teaching in Learning Disabilities

The Master of Science degree with a major in Resource Teaching in Learning Disabilities can lead to a career in teaching children with specific disabilities. The program provides a broad background in the field of special education and focuses on the specific needs of children who are identified as having learning disabilities. The program curriculum includes courses in special education, reading, mathematics, and science. Students are required to complete a practicum experience in a special education setting.

Students in this program must pass a written and/or oral examination prior to graduation.

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Students in this program must pass a written and/or oral examination prior to graduation.

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Students in this program must pass a written and/or oral examination prior to graduation.
2. Resource Room Teacher with certification as a resource teacher providing consultative services to regular class teachers and special class teachers and providing direct services to children (mild EMH, LD, mild ED, RE) in tutorial or small group settings.

3. Clinical Diagnostic Teacher (no certification) providing educational diagnostic and intervention services, within multidisciplinary clinical settings, to mild EMH, LD, mild ED, RE.

Each of the above positions require the same functions which must be accomplished by our graduate student and which will prepare them to assume that role whenever and wherever the position becomes available. Thus, our graduate students undergo a coordinated training program of didactic and practicum experiences in which they:

1. Formally and informally analyze, assess, and diagnose children with learning and/or behavior problems.
2. design, develop, and implement intervention techniques and strategies for learning and behavioral needs;
3. develop and practice communication skills and techniques for the purpose of conveying diagnostic findings, educational and behavioral needs to children, parents, teachers, administrators, and others who may have a direct or indirect interest in the child;
4. design, develop, and implement organizational plans for classroom and resource programs and for clinical operations. Handicapping conditions associated with all functions relate primarily to EMH, LD, ED, and RE.

Program Requirements

The program in Specific Learning Disabilities is a cooperative program between the Department of Special Education of the University of Nebraska at Omaha and the Meyer Children's Rehabilitation Institute - University of Nebraska Medical College. Personnel from both institutions will be used to provide the expertise in training the student in those areas necessary to fulfill the competency requirements. Since the Meyer Children's Rehabilitation Institute has been designated as the State Center for Learning Disabilities, most clinical services to children and practicum experiences will take place there. The exception will be when the student moves to the public or parochial school for regular classroom experiences. Lectures, demonstrations, and seminars will take place at both facilities.

Entrance Requirements

1. Students must hold a Bachelor's degree with a teacher's certificate in one or more teaching areas.
2. Students must have completed three years of successful teaching experience before enrollment will be granted.
3. Students must take pre-competency examinations (oral and/or written) within the first nine (9) hours of course work before a final plan of study will be made. (Under this requirement, the student is subject to prerequisite course failure, during, or after completion of the nine hours). This is required in order to help the student attain those competencies necessary for the completion of the program.
4. Students must fulfill all other entrance requirements as required by the Graduate College of the University of Nebraska at Omaha.

Course Work

1. Thirty (30) credit hours must be completed for endorsement as a Resource Teacher in Learning Disabilities.
2. Thirty-six (36) credit hours must be completed for the Master of Science degree in Special Education with a major in Learning Disabilities and endorsement as a Resource Teacher in Learning Disabilities.

Required Courses

A. Analysis of the Learner - 9 hours from the following:
   - SPED 840M: Learning Disabilities
   - SPED 911: Problems in Teaching Reading Elementary
   - PSY 667: Learning Disorders
   - PSY 658: Cognitive Development
   - PSY 659: Social and Personality Development
   - SPED 880M: Emotional Development in Children and Youth
   - SPED 864V: Neurophysiology of Speech and Language (Speech Science III)
   - SPED 865V: Interdisciplinary Approaches to Developmental Disabilities
   - SPED 875M: Childhood Language Disorders
   - PSY 821: Psychological and Educational Testing

B. Testing and Evaluation Techniques - 5 hours from the following:
   - SPED 859V: Diagnosis of Learning Disabilities
   - SPED 819V: Diagnostic and Remedial Instruction in Reading
   - PSY 831: Child Assessment in Elementary School Guidance
   - PSY 832: Psychological and Educational Testing

C. Remediation Techniques - 9 hours from the following:
   - SPED 887V: Clinical Teaching in Learning Disabilities
   - SPED 881M: Classroom Techniques for Behavior Control
   - SPED 8811: Classroom Techniques in Learning Disabilities
   - ELM 819: Diagnostic and Corrective Instruction
   - SPED 865N: Curriculum Planning for the Disabled
   - SPED 864V: Advanced Observation and Student Teaching of Special Education

D. Practicum - 6 hours
   - SPED 872U: Basic Practicum in Special Education (Intro)
   - SPED 873U: Advanced Practicum in Special Education (School)

E. Courses Required for Completion of Master's Degree
   - SPED 870V: Seminar in Special Education
   - FED 601: Introduction to Research

Major in Teaching the Emotionally Disturbed**

I. Required Courses
   - FED 601V: Introduction to Research
   - SPED 880M: Interdisciplinary Approaches to Developmental Disabilities
   - SPED 840M: Emotional Development of Children and Youth
   - SPED 811M: Classroom Techniques for Behavior Control
   - SPED 870V: Seminar in Special Education
   - SPED 872V: Basic Observation and Student Teaching of Special Education
   - SPED 872U: Practicum in Special Education

II. Electives
   - PSY 659: Parent-Professional Relationship in Special Education
   - SPED 840M: Learning Disabilities
   - Psych 657: Learning Disabilities
   - Psych 657V: Behavior Modification
   - (NFS) 851: Developmental Psychology
   - (NFS) 852: Group Dynamics

URBAN STUDIES

Master of Science With a Major in Urban Studies

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

Qualified urbanists are being sought by a wide range of employers. Private corporations as well as city and state agencies who have both the need for trained personnel and the standing of the problems of contemporary urban society.

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

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

Degree Requirements

Thirty-six semester hours of course work are required. A core of six required courses shall be completed, plus nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 832V, 840V, 801V, 802V, and History 844M or 812M, and a course in research methods. Courses applicable to the area of concentration may include, but are not necessarily restricted to, Political Science 852M, 844M, 860V; Public Administration 840V, 845V, 839: 840V, Geography 881V: Psychology 891, 842V, 845V, 847V, 850V, 852V, 854V, 856V, 858V, 859M, 865M, 867M, 880M, 882M, 899M, 870M, 871M: Gerontology 810M, 82M, Counseling 859M, 861V, 870V, Community and Regional Planning 811M, 813V. A maximum of nine hours of optional credit may be selected from the following: Economics 855V, 860V, 867V, 888V: History 843M, 811M; Geography 881V, 812M; or many of the courses listed above.

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

**The Master of Science degree with a major in teaching the emotionally disturbed includes courses that lead to certification. Prerequisites include 6 hours of course development and state certification in at least one teaching field. The number of candidates for the degree will be restricted.
COURSE DESCRIPTIONS

Art

Studio Art

421/831M Advanced Sculpture (3) Advanced work in student's choice, with facilities for onyx, cements, wax, and general metal working. Prereq: For 431, Art 331. For 831M, Art 331 and permission of the instructor.

441/841M Advanced Painting (3) Practical instruction in oil painting and related media. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art. Prereq: For 441, Art 341. For 841M, Art 341 and permission of the instructor.

451/851M Advanced Printmaking (3) Intaglio process stressing technical proficiency in the various media. Prereq: For 451, Art 361. For 851M, Art 361 and permission of the instructor.

831V Graduate Sculpture (3) Advanced problems in a particular sculpture media. Prereq: Art 431 and permission.

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

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

Biology

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

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

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

354/854 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 854, 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 873, Biology 145.

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

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

410/810M Plant Geography (3) A study of the worldwide distribution of major vegetation types and the ecological and physiological factors that determine their location. Special attention to North America is included. Prereq: 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 Limnology (4) A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment. Prereq: For 418, Biology 145, 175, and organic chemistry. Junior-senior. For 818M, Biology 145, 175, and organic chemistry.

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

427/827M Animal Behavior (3) Behavior of diverse animals for the understanding of the relationships between nervous integration and
the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. Prereq: For 427, Biology 175 and Psychology 101 or permission of the instructor. Junior-senior. Lecture only. For 872m, Biology 175 and permission of the instructor. Junior-senior. Lecture only. (Same as Psychology 427/827m).

433/833M Bryology (3) A course in the identification, classification, ecology, and distribution of bryophytes. Prereq: For 433, Biology 344 or permission of the instructor. Junior-senior. For 833m, Biology 344 or permission of the instructor.

434/834M Ichthyology (4) A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American freshwater fishes. Prereq: For 434, Biology 175. Junior-senior. For 834m, Biology 175.


444/844M Plant Physiology (4) A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism and mineral nutrition. Prereq: For 444, Biology 145, organic chemistry, or permission of the instructor. Junior-senior. For 844m, Biology 145, organic chemistry, or permission of the instructor.

454/854M Taxonomy of Vascular Plants (4) A classification of vascular plants with particular emphasis on the evolution and adaptations of select plants with particular emphasis on the evolution and adaptations of selected families, and with discussion of experimental techniques used by the taxonomist. Prereq: For 454, Biology 145, Junior-senior. For 854m, Biology 145.

464/864M General Microbiology (4) The nature of microorganisms, their life processes, their economic and scientific significance. Prereq: For 464, Biology 145, organic chemistry, or permission of the instructor. Junior-senior. For 864m, Biology 145, organic chemistry, or permission of the instructor.

472/872M Comparative Endocrinology (3) Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: For 472, a course in endocrinology, concurrent registration in Biology 473 or permission of instructor. Junior-senior. For 872m, a course in endocrinology, concurrent registration in Biology 872m or permission of the instructor.

473/873M Endocrinology (3) A survey of endocrine physiology stressing the regulatory and integrative roles of hormones, the control of hormone secretion, and mechanisms of hormone action. Prereq: For 473, organic chemistry, vertebrate anatomy, and physiology or permission of the instructor. Junior-senior. For 873m, organic chemistry, vertebrate anatomy, physiology or permission of the instructor.

474/874M Animal Physiology (4) A study of the animal body emphasizing mechanisms of regulation and control. Prereq: For 474, vertebrate anatomy, organic chemistry, and physics, or permission of instructor. Junior-senior. For 874m, Biology 175, organic anatomy, organic chemistry, and physics, or permission of instructor.

478/878M Vertebrate Zoology (4) A study of the general biology of the subphylum vertebrata including the anatomy, physiology, ecology and physiology of vertebrate representatives. Prereq: For 478, Biology 175. Junior-senior. For 878m, Biology 175.

488/888M Invertebrate Zoology (4) A field-oriented course emphasizing the taxonomy and natural history of the invertebrate animals. Prereq: For 488, Biology 175. Junior-senior. For 888m, Biology 175.

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

492/892M Parasitology (4) Taxonomy, morphology, physiology, life history, distribution, and control of the parasitic protozoa, helminths, and arthropods. Prereq: Biology 175.

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

498/898M Ornithology (4) A study of the families of birds, including their morphology, anatomy, behavior, ecology, physiology, evolution, and adaptations. Prereq: For 498, Biology 175. Junior-senior. For 898m, Biology 175.

513/913M Neurology (4) A course in the general biology of the nervous system, including the structure, function and morphology of the nervous system. Prereq: For 513, Biology 175.

515/915M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 515, Biology 175.

516/916M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 516, Biology 175.

523/923M Sociology (4) A study of the social organization and behavior of individuals in human society. Prereq: For 523, Biology 175.

524/924M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 524, Biology 175.

525/925M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 525, Biology 175.

526/926M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 526, Biology 175.

527/927M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 527, Biology 175.

528/928M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 528, Biology 175.

529/929M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 529, Biology 175.

530/930M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 530, Biology 175.

531/931M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 531, Biology 175.

532/932M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 532, Biology 175.

533/933M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 533, Biology 175.

534/934M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 534, Biology 175.

535/935M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 535, Biology 175.

536/936M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 536, Biology 175.

537/937M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 537, Biology 175.

538/938M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 538, Biology 175.

539/939M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 539, Biology 175.

540/940M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 540, Biology 175.

541/941M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 541, Biology 175.

542/942M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 542, Biology 175.

543/943M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 543, Biology 175.

544/944M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 544, Biology 175.

545/945M Psychology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 545, Biology 175.

546/946M Anthropology (4) A study of the behavior and culture of man, emphasizing the evolution and cultural adaptations of man and his environment. Prereq: For 546, Biology 175.
Land, Air, and Water

Prerequisite: OS 213. Study of how computer-based information techniques in business and economics. Times and problems associated with this activity. Course is concerned with the measurement, with emphasis on market structure, pricing, production possibilities and factor costs. Additional consideration is given the theory of the firm under conditions of uncertainty. Perreq: Econ 201 or Econ 202.

810V Managerial Economics (3) Economic analysis of the business firm and its environment, with emphasis on market structure, pricing, production possibilities and factor costs. Additional consideration is given the theory of the firm under conditions of uncertainty. Perreq: Econ 201 or Econ 202.

820V Managerial Accounting (3) A study of concepts, analysis, and procedures of accounting utilizing internal financial and non-financial data which provides management with information for planning and controlling routine operations, for non-routine decisions, policy making and long-range planning; and for external reporting to stockholders, government, institutions, and interested parties.


822V Cost and Management (3) A study of the cost and management of production processes and the development of management theory and planning for the control and management of productive processes. Perreq: Perreq: Permission of the instructor.

823V Human Behavior in Organization (3) An interdisciplinary study concerned with the problems of controlling and utilizing human resources to contribute to the effective performance of management and workers. Perreq: BA 349 or BA 814.

826V Seminar in Management (3) A student participation course emphasizing current issues and problems in the areas of management theory and operation. Perreq: BA 630V and BA 831V.

840V Marketing Policies (3) A marketing management approach to the determination of policies employed in marketing. Perreq: Perreq: MIT 331 or BA 815.

841V Promotional Policies (3) Analysis of the methods, research, and policies needed to develop and administer an effective promotional program. Perreq: Perreq: BA 840V.

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

850V Financial Management (3) Examines the problems of managing the financial operation of an enterprise with emphasis on an analysis and solution of long and short-term problems pertaining to the capital policy decisions. Perreq: Fin 325 or BA 813.

851V Security Analysis (3) A study in the techniques of an analysis of marketable securities. Statistical and financial ratio methods of analysis are examined as well as broader bases for appraisal of values of securities. Perreq: Fin 325 or BA 813.

852V Seminar in Investment Management (3) The theory of investment management and its application in formulation of policies for different types of investors. Perreq: Fin 325 or BA 813.

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


861V Current Problems in Real Estate and Land Use Economics (3) A study of current problems in real estate markets affecting decision policies in the private sector and public sector. Analysis of economics of land use and development and use of real property to provide a viable environment for all citizens. Perreq: RE 344, RE 346, RE 440, and RE 441 or equivalent experience.

862V Current Problems in Land Economics (3) A study of current problems in real estate markets affecting decision policies in the private sector and public sector. Analysis of economics of land use and development and use of real property to provide a viable environment for all citizens. Perreq: RE 344, RE 346, RE 440, and RE 441 or equivalent experience.

866V Environmental Pollution Control (3) Theory of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and pollution problems. Perreq: Chemistry 336. May be taken concurrently.

867V Advanced Inorganic Chemistry (3) A study of problems of modern inorganic compounds and reactions. Perreq: Chemistry 226, 336 (Chemistry 336 may be taken concurrently). Perreq: Permission of the instructor.

869V Environmental Quality and Control - Land, Air, and Water (3) Application of the principles of science, engineering, and planning for the control and management of the environment and land use, including air quality and land management. Perreq: Perreq: Permission of the instructor. Not available for graduate credit for students who have completed 460/460M Environmental Control. Perreq: Permission of the instructor.

870V Environmental Quality and Control - Land, Air, and Water (3) Application of the principles of science, engineering, and planning for the control and management of the environment and land use, including air quality and land management. Perreq: Perreq: Permission of the instructor. Not available for graduate credit for students who have completed 460/460M Environmental Control. Perreq: Permission of the instructor.

875V Environmental Pollution Control (3) An introduction to the engineering principles of air pollution, science and engineering. Perreq: Permission of the instructor. Not available for graduate credit for students who have completed 460/460M Environmental Control. Perreq: Permission of the instructor.
**Applications of Chemistry to Sanitary Engineering**.

Applications of chemistry to sanitary engineering, with emphasis on the treatment of water and sewage. Prereq: Civil Engineering 351 or equivalent. For 446m, graduate standing and permission of the instructor. Prefer: For 446, Civil Engineering 444. For 846m, graduate standing and permission of the instructor.

**Applications of Microbiology to Sanitary Engineering**.

Applications of microbiology to sanitary engineering, with emphasis on the treatment of water and sewage. Prereq: Civil Engineering 351 or equivalent. For 446m, graduate standing and permission of the instructor. Prefer: For 446, Civil Engineering 444. For 846m, graduate standing and permission of the instructor.

**Soil Mechanics**.

Application of the effective stress principle to shear strength of cohesive soils; analysis of stability of slopes. Development of continuum relationships for solid mechanics; solution for stresses and displacements for an elastic continuum, solution for stresses and displacements for a boundary volume, and boundary conditions. (Lecture 3, optional course.) Prereq: For 434, Civil Engineering 334. For 834m, graduate standing and Civil Engineering 334.

**Fluid Mechanics**.

Sub-surface exploration and interpretation; selection of foundation systems; determination of allowable bearing pressures from laboratory and field data; proportioning shallow foundations for bearing stability and settlement; design of deep foundations; pile driving analysis; control of ground water level. (Lecture 3, optional course.) Prereq: For 436, Civil Engineering 334 or equivalent. For 836m, graduate standing, Civil Engineering 334 or equivalent.

**Structural Analysis** (3).

Analysis of statically determinate structures, including frames, continuous beams, and trusses. Numerical and classical methods of analysis, including an introduction to solutions by matrix methods. Effects of temperature and movement of supports: influence lines. Relation of design to analysis. Prereq: For 441, Civil Engineering 334 or equivalent. Prefer: For 442, Civil Engineering 442. For 841m, graduate standing and permission of the instructor. Prefer: For 441, Civil Engineering 444. For 842m, graduate standing.

**Steel Design** (2).

An introductory course in the application of the basic principles of mechanics of materials and the current practices in proportioning of structural members in steel. Prereq: For 444, Civil Engineering 334 or permission of the instructor. For 844m, graduate standing.

**Structural Analysis II** (3).

Analysis of statically indeterminate structures, including beams with continuous supports, plates, and trusses. Numerical and classical methods of analysis, including an introduction to solutions by matrix methods. Effects of temperature and movement of supports: influence lines. Relation of design to analysis. Prereq: For 441, Civil Engineering 334 or equivalent. Prefer: For 442, Civil Engineering 442. For 841m, graduate standing and permission of the instructor. Prefer: For 441, Civil Engineering 444. For 842m, graduate standing.

**Hydraulic Engineering** (3-4).

Fundamentals of hydraulics; principles of design of hydraulic structures, continuity, and energy principles are applied to special problems, such as dam design, weir design, open-channel design, and irrigation systems. Prereq: For 454, Civil Engineering 334. For 854m, graduate standing. For 455, General Engineering 457 or equivalent. For 855m, graduate standing and permission of the instructor.

**Advanced Hydrology** (3).

Advanced topics in hydrology and hydraulics, with emphasis on parametric and stochastic processes and systems analysis. Prereq: Civil Engineering 454 or equivalent. For 856m, graduate standing and permission of the instructor.

**Structural Dynamics**.

A continuation of Civil Engineering 444, but directed toward building systems. Steel and timber structural systems are studied. Prereq: For 446, Civil Engineering 444. For 846m, graduate standing and permission of the instructor. Prefer: For 446, graduate standing and permission of the instructor.

**Structural Reinforcement Concrete** (3).

The application of engineering principles to the movement of ground water. The influence of the physical and geologic environment, or the treatment of ground water and well hydraulics and aquifer evaluation. Emphasis is placed on computer applications and current design problems. Prereq: For 458, Math 197 and GE 331 or equivalent. For 858m, graduate standing and permission of the instructor.

**Urban Transportation Planning** (3).

Principles of transportation planning, objectives and goals, data collection procedures, criteria for travel forecasting techniques, trip generation and assignment and modal choice analysis. Mass transit system design, operation and evaluation. Prereq: Upper class standing or permission of the instructor.

**Airport Planning and Design** (3).

Principles in planning, locating and designing of airports. Analysis of air traffic control and aircraft characteristics in planning. Environmental effects of airports involving noise and air pollution. Prereq: For 462, upper class standing and permission of the instructor. For 862m, graduate standing and permission of the instructor.

**Transportation Geomatics** (3).

Fundamental aspects of transportation systems with emphasis on highway, railway, and airport design and planning. Techniques of road network design, analysis of transportation networks, location and assignment analysis. Prereq: For 463, Civil Engineering 457 or equivalent. For 863m, graduate standing and permission of the instructor.

**Transportation Engineering** (3).

Planning and development of air traffic flow as influenced by the interaction of the vehicle, driver and roadway environment. Prereq: For 454, Civil Engineering 334, or permission of the instructor. For 854m, graduate standing and permission of the instructor.

**Urban Transportation Planning** (3).

Characteristics of urban transportation systems under dynamic loads. Computer applications in engineering analysis of various structures under dynamic loads. Prereq: For 454, graduate standing. For 854m, graduate standing and permission of the instructor.

**Fluid Mechanics** (3).

A course emphasizing accounting, costing, and management control as related to construction. The various relationships between the accounting and management aspects will be presented with emphasis on the informational and controlling aspects of accounting. Estimating, bidding, contract procedures as they apply to costing and control will be discussed. Prereq: For 474, permission of the instructor. For 874m, graduate standing and permission of the instructor.

**Economic Engineering** (2).

Economic comparison of various methods of designing shallow foundations and retaining structures. Prereq: For 475, graduate standing and permission of the instructor.

**Soil Mechanics**.

A general survey of soil mechanics and soil test methods. Prereq: For 476, graduate standing and permission of the instructor.

**Building Systems**.

A course emphasizing accounting, costing, and management control as related to construction. The various relationships between the accounting and management aspects will be presented with emphasis on the informational and controlling aspects of accounting. Estimating, bidding, contract procedures as they apply to costing and control will be discussed. Prereq: For 474, permission of the instructor. For 874m, graduate standing and permission of the instructor.

**Economic Engineering** (2).

Economic comparison of various methods of designing shallow foundations and retaining structures. Prereq: For 475, graduate standing and permission of the instructor.
Counseling and Guidance

479/875M Practical and Experiential Training in Counseling (1-2-6) An integrative course designed to acquaint students and practitioners with recent developments in the counseling profession. The course is typically a collaborative effort with the ACT I, a local, non-profit advisory counsel, counseling training institute. This course is repeatable up to a maximum of six hours of credit at the end of the sequence. Prereq: Permission of instructor.

480/880M Guidance Skills for Secondary Teachers (3) Course designed to familiarize educators with guidance activities of schools, the educational role in these activities, and to develop appropriate guidance and listening skills. No credit for guidance majors. Prereq: For 490, senior; for 880M, senior or graduate.

491/891M Group Evaluation Techniques (3) A study of the various approaches to measurement and evaluation in the instructional programs of elementary and secondary schools. Utilization of standardized tests, construction of classroom tests, use of the cumulative record, and development of specific program objectives are included in the course. Prereq: For 491, senior.


494/894 Introduction to Counseling Theories (3) Study of current research in the field of counseling. Prereq: Consn 890M.

820V Introduction to Counseling Theories (3) Study of contemporary theories of counseling and guidance. Prereq: Consn 890M.

821V Organization and Administration of Guidance Services (3) A survey of current structural patterns and administrative practices in guidance and counseling programs. Prereq: Consn 890M or 892V.

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

823V Appraisal Techniques in Counseling and Guidance (3) Utilization of standardized and nonstandardized appraisal techniques in counseling and guidance. Prereq: Consn 880M, ed 801V.

824V Counseling Practices (3) The process of counseling, developing a working relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

825V Counseling Practicum (2-4) Counseling experience under supervision of a practicum in counseling. Prereq: Consn 824V and permission of department.

826V Elementary Counseling Internship (3-6) Field experience in an approved counseling program under the supervision of a qualified counselor and a guidance professor of the university. Prereq: Consn 824V and permission of department.

827V Group Techniques in Guidance (2) The application of group techniques to counseling. Prereq: Consn 890M and 825V.

828V Community Involvement for Urban Counselors (3) An experiential involvement in the ecology of the urban disadvantaged is the process. The student will have extended field experiences in the urban area as well as seminar-type activities. Prereq: Consn 890M and permission of instructor.

829V Child Assessment in Elementary School Guidance (3) Methods and techniques for the identification of the elementary child as a unique individual. Prereq: Econ 180V and FED 801V.

830V Counseling Elementary School Children (3) Study of the methods and techniques applicable in counseling young children. Prereq: Consn 890M or 831V.

833V Elementary School Counseling Practicum (4) Counseling in the elementary school under supervision of a counseling professor of the university. Prereq: Consn 832V and permission of department.

834V Guidance Internship (2-4) Supervised counseling work with emphasis on the professional aspects of counseling. Prereq: Consn 832V and permission of department.

835V Guidance Services and The Disadvantaged Youth (3) A study of the methods and leadership styles of programs for the disadvantaged youth. Prereq: Consn 822V and 824V.

845V College Student Personnel Internship (4) A supervised internship program for college students with involvement in the counseling services office. Prereq: Consn 832V and permission of instructor.

853V Internship in Counseling and Guidance (3) Supervised counseling work with emphasis on the professional aspects of counseling. Prereq: Consn 832V and permission of department.

855V School Counseling Internship (3) A supervised counseling work with emphasis on the professional aspects of counseling. Prereq: Consn 832V and permission of department.

856V Internship in Counseling and Guidance (3) Supervised counseling work with emphasis on the professional aspects of counseling. Prereq: Consn 832V and permission of department.


THE GRADUATE BULLETIN

890M Principles of Guidance (3) The introductory course in guidance and counseling techniques and methods. A study of the processes underlying guidance and counseling techniques and methods. Prereq: Consn 890M.

891M Principles of Counseling (3) An introductory course in the techniques and methods of counseling and guidance. A study of the processes underlying guidance and counseling techniques and methods. Prereq: Consn 890M.

892V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

893V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

894V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

895V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

896V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

897V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

898V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

899V Counseling and Guidance (3) The application of basic counseling relationship, utilizing different approaches appropriate to client characteristics and counseling skills. Prereq: Consn 822V, 820V, and 825V.

Criminal Justice

801V Criminal Justice Planning and Innovation (3) A review of the literature in social psychology, public administration and soci­
ology which relate to the effectiveness of alter­
atheories of counseling and guidance. Prereq: Consn 890M.

802V Seminar in Administration of Justice (3) Justice in America from the point of view of the attorney and the court. Prereq: Consn 824V and permission of instructor.

803V Comparative Law Enforcement Systems (3) An analysis of the legal framework of various modern law enforcement systems, especially European. Prereq: Consn 890M.

804V Seminar in Community Services and Treatment (3) An analysis of the alternative options available to communi­
to the etiology of crime as a social phenomena．Prereq: Consn 890M.

805V Seminar in Criminal Jurisprudence (3) An examination, analysis and development of the theoretical and philosophical rationale subsumed in the societal definition of the na‐
to the etiology of crime as a social phenomena．Prereq: Consn 890M.


401-402/801M-802M Advanced Projects in Dramatic Arts (1-3) Special projects in speech, supplementing regular courses; individual research projects; combined study and practice. Pre-req: For 401-402, junior or senior standing and at least 8 hours of work in the general area of dramatic arts to be studied. For 801M-802M, students working in dramatic arts in the general area to be studied and permission of the instructor.

456/856M Children's Theatre Production (3) Study of the methods of direction, design, acting and production of plays for children. Students will participate in the production process and become actively involved in an actual production. Pre-req: For 456, DA 100, DA 263, DA 331 and/or DA 444, or permission of the instructor and junior standing. For 856M, graduate standing with an undergraduate major or minor in theatre or permission of the instructor.

459/809M Advanced Oral Interpretation (3) Theories and forms of interpretation from antiquity to the present. Preparation and presentation of a rete. Pre-req: For 459, basic course in dramatic arts, including DA 100 and junior standing. 431-432/831M-832M Acting: Historical Periods and Styles (Each 3) (1) The fundamental theories and practices of acting from ancient Greece to the present, including the interpretation of outstanding literature and performance. Pre-req: For 431-432, DA 101 and/or permission of department chairperson and junior standing. For 831M-832M, DA 331 and/or permission of the instructor.

444/644M Directing: Rehearsal and Performance (3) A study of the methods of selecting, analyzing, directing and performing. Pre-req: For 444, DA 101, DA 263 or permission of department chairperson and junior standing. For 644M, DA 101 or permission of the instructor.

450-451/850M-851M Costume Design (Each 3) An introduction to the fundamentals of stage costume design, including line, silhouette, movement, color, texture and theatricality. Emphasis on the visual presentation of designs, including considerable work with life drawing, rendering and technical drawing. Pre-req: For 450, DA 206-207, DA 251; Art 110, 121.

461/811M Scene Design (3) Principles of composition, perspective, visual realism, painting, drafting, stage, the designer's approach to the play, production of ground plans, elevations and sketches. Pre-req: For 461, DA 101, DA 263 and junior standing. For 811M, DA 101 or permission of the instructor.

467/671M Stage and Tv Lighting (3) Characteristics and control of light and color and their application to the theatre; stage lighting; design of lighting for plays, production of ground plans, elevations and sketches. Pre-req: For 467, DA 101, DA 263 and junior standing. For 671M, DA 101 and DA 263.

471/711M History of the Theatre to 1642 (3) A historical survey of the theatre as an institution and the literature of the theatre from its origins to 1642. Pre-req: For 471, DA 101 and junior standing. For 711M, admission to graduate study.

472/721M History of the Theatre Since 1642 (3) A historical survey of the development of the theatre from 1642 to the present. Pre-req: For 472, DA 101 and junior standing. For 721M, admission to graduate study.

473/731M 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. Pre-req: Permission of the instructor.

483/863M 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 each year, according to the interest of the students and the instructor. Pre-req: Permission of the instructor.

200V Dramatic Theory and Criticism (3) An introduction the fundamental theories and practices of contemporary critical analysis of plays, including the interpretation of individual works and their place in the larger context of the theatre. Pre-req: For 200V, basic course in dramatic arts, including DA 100 and junior standing.

211V Seminar in Contemporary Theatre Aesthetics and Critical Theory (3) An inquiry into the broad spectrum of dramatic practice and theory. Pre-req: For 211V, basic course in dramatic arts, including DA 100 and junior standing.

899V Master's Thesis (1-6) Open to graduate students who have completed all requirements except the thesis. Pre-req: Permission of instructor.

627/727M Production and Design (3) Emphasis on practical production and design techniques. Pre-req: For 627, 467, DA 101 and Junior standing. For 727M, 467, DA 101 and DA 263.

831/832M Internship: Directing (3) An introduction to the theoretical and practical considerations of directing a full production. Pre-req: For 831M, 444M, DA 101 and DA 263; for 831M, DA 101 or permission of the instructor.

998/999M Advanced Reading and Research (3) Reading and research in the area of dramatic arts to be studied. For 999M, basic course in dramatic arts, including DA 100 and junior standing. Pre-req: For 998M, basic course in dramatic arts, including DA 100 and junior standing, 431-432/831M-832M Acting: Historical Periods and Styles (3) (1) The fundamental theories and practices of acting from ancient Greece to the present, including the interpretation of outstanding literature and performance. Pre-req: For 431-432, DA 101 and/or permission of department chairperson and junior standing. For 831M-832M, DA 331 and/or permission of the instructor.

827M Costume History and Design (3) An introduction to the history of costume from antiquity to the present. Pre-req: Basic course in dramatic arts, including DA 263 and junior standing.

829V Research Methods in Economics and Business (3) This course will introduce students to the methods of research in economics and business. Pre-req: Permission of instructor.

850V Economic Education (1) (3) Open to any student interested in the teaching of economics. Pre-req: For 850V, basic course in dramatic arts, including DA 100 and junior standing.

851V Seminar in Money and Banking (3) A study of the evolution and development of the American financial system. Pre-req: Basic course in dramatic arts, including DA 100 and junior standing.

852V Managerial Economics (Same As BA 810V) (3) Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on managerial problems, production possibilities, and cost factors. Additional consideration is given to the theory of the firm under perfect competition and other market structures. Pre-req: Permission of instructor.

872V Managerial Economics (Same As BA 810V) (3) Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on managerial problems, production possibilities, and cost factors. Additional consideration is given to the theory of the firm under perfect competition and other market structures. Pre-req: Permission of instructor.

830V Econometrics (3) (3) An introduction to the study of economic theories and their applications to the economic problems. Pre-req: Econ 322.

832V Business Conditions Analysis (Same As BA 830V) (3) A study of the level of income, production, employment, prices, and the structure of industries. Economic aggregates and the aggregate output of the economy are used to derive the aggregates of the economy. Pre-req: Econ 322.

833V Business Cycles (Same As BA 833V) (3) An introduction to the study of the level of income, production, employment, prices, and the structure of industries. Economic aggregates and the aggregate output of the economy are used to derive the aggregates of the economy. Pre-req: Econ 322.

850V Economic Education (1) (3) Open to any student interested in the teaching of economics. Pre-req: For 850V, basic course in dramatic arts, including DA 100 and junior standing.

851V Seminar in Money and Banking (3) A study of the evolution and development of the American financial system. Pre-req: Basic course in dramatic arts, including DA 100 and junior standing.

852V Managerial Economics (Same As BA 810V) (3) Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on managerial problems, production possibilities, and cost factors. Additional consideration is given to the theory of the firm under perfect competition and other market structures. Pre-req: Permission of instructor.

872V Managerial Economics (Same As BA 810V) (3) Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on managerial problems, production possibilities, and cost factors. Additional consideration is given to the theory of the firm under perfect competition and other market structures. Pre-req: Permission of instructor.

830V Econometrics (3) (3) An introduction to the study of economic theories and their applications to the economic problems. Pre-req: Econ 322.
880v Independent Study in Topics on Urbanism (1) Graduate student 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.) Prerequisites: Undergraduate major 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 basis for the analysis of urban problems with emphasis on the policy alternatives applicable toward their possible solution. (Also listed under government and sociology.) Prerequisites: 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 analyzing regional economic problems of a regional nature, in addition, policy alternatives, decision making and measurement techniques are examined. (Also listed under geography.) Prerequisites: At least 6 hours of upper division course work in economics or permission of the instructor.

892v-895v Independent Study (Each 1-3 credit hours) Subject matter determined by individual study and under faculty supervision. Prerequisites: Graduate student in economics and permission of instructor.

898v-999v Urban-Regional Research (Each 3) For master of science degree candidates in economics. (1) A study of a current problem in urban economic problems, employing research techniques. Students do independent research concerning an area, problem, and submit a complete report to a departmental committee. (2) A course in the nature, principles and relationships between the federal, state, and local governments, and their responsibilities. (3) A course designed for urban and regional problems. (4) A study of systems as planned bases for administration, and the role of electronic data processing in implementation.

999 Thesis (1-3) An independent research project, written under the supervision of a graduate adviser in the department of economics. Approval of the topic and the completed project is required. Prerequisite: Permission of graduate adviser.

540 Seminar in American Economic History to 1865 (See History) (F, S, Su) (3) W. R. Petrovski
541 Seminar in American Economic History Since 1865 (See History) (F, S, Su) (3) W. R. Petrovski

Educational Administration and Supervision

800v Educational Administration and Supervision (3) A series of intensive courses especially designed for educational administrators and supervisors—scheduled as regular seminars or workshops—according to purpose.

810v Advanced Seminar in Educational Administration (3) This course is designed to acquaint the student with the supervisory practices as they relate to the elementary school. Prerequisites: FED 801v and EdAd 835v.

815v Supervision in Elementary Schools (3) This course is designed to acquaint the student with the supervisory practices as they relate to the elementary school. Prerequisites: FED 801v and EdAd 835v.

816v Supervision in Secondary Schools (3) This course is designed to acquaint the student with the supervisory practices as they relate to the secondary school. Prerequisites: FED 801v and EdAd 835v.

854v Administration and Supervision in Junior High Schools (3) This course is designed to acquaint the student with the supervisory practices as they relate to the junior high school supervisory program. Prerequisite: Admission to graduate study.

855v School Business Management (3) An analysis of the functions of business management: budgetary procedures; financial accounting; administration; marketing; personnel policies; planning; and administration of transportation.

856v School Finance (3) A study of the principles and practices in school finance, local, state and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance. Prerequisite: FED 810v and EdAd 835v.

880v Field Project in Educational Administration (1-3) Individual or group study and analysis of specific problems in educational administration. Prerequisite: Admission to graduate standing.

891v Practicum in Educational Administration (3) This course is designed to acquaint the student with the supervisory practices as they relate to the elementary school. Prerequisites: FED 801v and EdAd 835v.

892v Field Project in Educational Administration (1-3) Individual or group study and analysis of specific problems in educational administration. Prerequisite: Admission to graduate standing.

911v Field Project in Educational Administration (1-3) Individual or group study and analysis of specific problems in educational administration. Prerequisite: Admission to graduate standing.

990v Seminar in Educational Administration and Supervision (3) A study of the nature, principles and issues which most significantly affect the administration of city schools. Prerequisites: Admission to The Instructional Materials Center.

541v Supervision in Elementary Schools (3) This course is designed to acquaint the student with the supervisory practices as they relate to the elementary school. Prerequisites: FED 801v and EdAd 835v.

648v Supervision in Secondary Schools (3) This course is designed to acquaint the student with the supervisory practices as they relate to the secondary school. Prerequisites: FED 801v and EdAd 835v.

654v Supervision in Junior High Schools (3) This course is designed to acquaint the student with the supervisory practices as they relate to the junior high school supervisory program. Prerequisite: Admission to graduate study.

954v School Law (3) This course is concerned with laws related to schools. Topics include the organization and operation of districts, pupil control, pupil transportation, and the legal status of certain types of personnel. Prerequisite: Admission to graduate study.

Educational Foundations

416v/417v Mental Health (3) A study of the principles and practices conducive to good mental health in the classroom. Major emphasis will be placed on developing an environment that will foster learning and learning that learns. Secondary emphasis is placed upon communication techniques and the impact of national and state authorities upon mental health. (F, S, Su) Prerequisites: For 416, junior.

481v/482v Principles of Educational Leadership (3) An introduction to the study of adult education as a major development in contemporary society. The course surveys the major forms and problems of adult education and the most recent approaches to providing programs for adults.

482/482m Adult Group Leadership (3) A study of adult groups in modern society and the characteristics of effective leadership in all types of groups. (S, Su)

483v/484v Audio-Visual Materials in Education (3) An introduction to the theory, history, organization, selection, and utilization of audio-visual materials for instruction, emphasizing the place of audio-visual media in the teaching/learning process. Prerequisite: Admission to the major in educational foundations.

487v/487m Preparation of Instructional Materials (3) A basic course in the production of inexpensive audio-visual materials for the classroom. Graphic, photographic and auditory materials are considered. Students are required to prepare such instructional materials as slides, transparencies, still pictures, video presentations, and exhibits. Prerequisites: For 487, Education Foundations or 488.

488v/489v Growth and Learning Problems of Disadvantaged (3) An intensive study designed to help students develop a better understanding of child growth and development and learning problems of the disadvantaged children and youth. (F, S, Su)

800v Special Studies in Educational Administration and Supervision (3) A series of intensive courses especially designed for educational administrators and supervisors—scheduled as regular seminars or workshops—according to purpose.

801v Introduction to Research (3) To acquaint the beginning graduate students with the
460/660M Shakespeare (3) A critical study of selected comedies, histories and tragedies by Shakespeare. Prereq: English 231.
466/666M The Twentieth-Century English Novel (3) Readings in the English novel from modernism to the present. Prereq: English 232.
468/668M History of English (3) A study of the structural development of the English language. Prereq: English 458 or permission.
472/672M Middle English Literature (3) A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500. Prereq: English 233 or permission.
478/678M Structure of English (3) A study of the phonology, morphology, and syntax of English as seen by the traditional, structural, and transformational-generative theories of language description. Prereq: English 458 or permission.
481/681M Literature of The Romantic Period (3) Poetry and prose (excluding the novel) from 1788 to 1830. Prereq: English 232.
482/682M Literature of The Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1860. Prereq: English 232 or permission.
488/688M Linguistic Variation (3) The methods and results of linguistic geography, sociolinguistics, dialectology, and modern variation studies with emphasis on American English in the community and the classroom. Prereq: English 458 or permission.
495/695M Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures or major literary movements which have appeared since 1930. Prereq: English 232 or permission.
496/696M Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics such as sociolinguistics, generative semantics, applied linguistics, descriptive linguistics, teaching English as a foreign language. Prereq: Senior standing, English 458, and permission of the instructor.
497/697M The American Novel (3) A critical and historical study of the work of twelve or more significant American novelists of the nineteenth and twentieth centuries. Prereq: English 245 or 246.
498/698M 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 dramas of the twentieth century. Prereq: English 112 or junior standing.
501V Seminar: Introduction to Literary Research (3) A survey of literary research, history, and interpretation with a primer on methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing or permission of the chairman of the department of English.
504V Seminar: Literary Criticism (3) Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth-century England and twentieth-century America. Prereq: Graduate standing or permission of the chairman of the department of English.
500V Seminar: American Literature (3) Individual research and group discussion relating to a general topic in American literature. Prereq: Graduate standing or permission of the chairman of the department of English.
508V Seminar in The English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.
509V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English authors and works of the restoration and the Augustan age (1660-1760). Prereq: Graduate standing.
510V Seminar: Victorian Literature (3) An intensive study of one or more authors, genres, literary movements or literary problems not covered by regular period or genre courses. Prereq: Graduate standing or permission of the instructor.
514V Seminar: John Milton (3) Intensive seminar in the major works of John Milton and their influence. Prereq: Graduate standing or permission of the chairman of the department of English.
513V Topical Seminar in English (3) An intensive study of one or more authors, genres, literary movements or literary problems not covered by regular period or genre courses. Prereq: Graduate standing or permission of the instructor.
515V Seminar in Middle English Literature (3) A study of selected writings in Middle English. Prereq: Graduate standing and one course in middle English language or literature.
525V Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate standing and one course in Middle English language or literature.
535V Independent Study (3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit. Prereq: Graduate standing and permission of instructor.
539 Thesis (3-6) Independent research project written under the supervision of an advisor. Prereq: Graduate standing.
542V Seminar: Shakespeare (3) A critical analysis of ten tragedies or ten comedies of Shakespeare. Prereq: Graduate.
545V English Literature of the 1750-1830 (3) Studies in the transitions between English literature of the age of Johnson and that of the age of Wordsworth. Prereq: Graduate standing.
547/747 Foreign Languages and Literature French
440/740M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.
415/815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 415/815 and English 415/816.)
417/817M Contemporary French and German Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 417/817m.)
419/819M Seminar: Studies in French-Anglo-American Literature (3) A comparative study of selected works in French and English literature. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as English 419/819m.)
421/821 Seminar in Sixteenth Century French Literature (3) Literature of the Renaissance, Rabelais, Montaigne, Voltaire, Racine, La Fontaine. Prereq: For 421, at least three credit hours in any one of the following areas: English, German, French, or Spanish literature, folklore, and foreign language learning. Prereq: Permission of the instructor. (Same as French 421/821m.)
424/824M Seventeenth Century French Literature (3) The classical school: Descartes, Pascal, Corneille, Moliere, Racine, La Fontaine. Prereq: For 424, at least three credit hours in any one of the following areas: English, German, French, or Spanish literature, folklore, and foreign language learning. Prereq: Permission of the instructor. (Same as French 424/824m.)
430/830M Eighteenth-Century French Literature (3) Conducted in English with English translations. Additional readings in German for German students. Prereq: Permission of the instructor. (Same as French 430/831m and English 430/831m.)
417/817M Contemporary French and German Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in German for German students. Prereq: Permission of the instructor. (Same as French 417/817m.)
431/831M Seminar on Literature of The 19th Century (3) Survey of the literature of the nineteenth century, especially as it relates to contemporary French and German. Prereq: For 431, German 303, permission of the instructor. For 831m, German 303.
432/832M German Literature of The 20th Century (3) Survey of literature of the twentieth century, from 1914 to the present. Prereq: For 432, German 316 or permission.
410/810M Theater of The Golden Age

17th and seventeenth centuries, including works by Baltasar Gracián, Miguel de Cervantes Saavedra, Lope de Vega, and others. Covers the development of Spanish theater during this period, focusing on the golden age of Spanish literature and the contributions of key playwrights and philosophers.

411/811M Novel of The Golden Age

440 / 840M German Novelle

17th and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote. Prereq: For 411, Span-178 or permission of the instructor.

416/816M Spanish American Literature of The Twentieth Century

Critical and analytical study of the foreign literature of the Spanish-speaking world, including dramatic authors, poets, and essayists from modernism to the present. Prereq: Spanish 322 or permission of the instructor.

418/818M Mexican American Literature

A study of representative works by Mexican American, Spanish American, and American writers, along with their European antecedents. Does not apply toward foreign language requirement. Prereq: Permission of the instructor.

420/820M Spanish American Novel

Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prereq: Spanish 322 or permission of the instructor.

424/824M Generation of 1898

Examination of the ideology, philosophy, and literary techniques of the generation of 1898. Includes translation studies of short- and long-form works. Prereq: Spanish 318 or permission of the instructor.

435/835M Spanish American Short Story

322 or permission of the instructor.

455/855 Modern Drama of Spain

Ideologies, techniques, trends, and influences of the major Spanish dramatics of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

455/855 Modern Novel of Spain

Analytical study of the representative Spanish novels of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

455/855 Introduction to Linguistics

An introduction to the concepts and methods of the scientific study of language, including language description, history, theory, variation, and acquisition as well as semantics, lexicography, and phonology. Prereq: Junior standing or permission; graduate standing or permission.

459/859M Bibliography and Methodology

(1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.

460/860M Pro-Seminar

(1-3) A detailed study of narrower phases of German literature, language or culture. Prereq: Permission of instructor.

Spanish

460/860M Independent Study

(1-3) Guided independent study and research under tutorial supervision. The course may be repeated with different topics but not in the same semester for maximum of six semester hours total. Prereq: Total Permission of instructor.

410/810M Theater of The Golden Age

Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina, and Calderon de la Barca. Prereq: For 410, Spanish 106 or permission of the instructor.

411/811M Novel of The Golden Age

Study of the prose masterpieces of the sixteenth and seventeenth centuries, including works as Lazarillo de Tormes, La Celestina, and Don Quixote. Prereq: For 411, Spanish 178 or permission of the instructor.

416/816M Spanish American Literature of The Twentieth Century

Critical and analytical study of the foreign literature of the Spanish-speaking world, including dramatic authors, poets, and essayists from modernism to the present. Prereq: Spanish 322 or permission of the instructor.

418/818M Mexican American Literature

A study of representative works by Mexican American, Spanish American, and American writers, along with their European antecedents. Does not apply toward foreign language requirement. Prereq: Permission of the instructor.

420/820M Spanish American Novel

Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prereq: Spanish 322 or permission of the instructor.

424/824M Generation of 1898

Examination of the ideology, philosophy, and literary techniques of the generation of 1898. Includes translation studies of short- and long-form works. Prereq: Spanish 318 or permission of the instructor.

435/835M Spanish American Short Story

322 or permission of the instructor.

455/855 Modern Drama of Spain

Ideologies, techniques, trends, and influences of the major Spanish dramatics of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

455/855 Modern Novel of Spain

Analytical study of the representative Spanish novels of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

455/855 Introduction to Linguistics

An introduction to the concepts and methodology of the scientific study of language, including language description, history, theory, variation, and acquisition as well as semantics, lexicography, and phonology. Prereq: Junior standing or permission; graduate standing or permission.

459/859M Bibliography and Methodology

(1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.

460/860M Pro-Seminar

(1-3) A detailed study of narrower phases of German literature, language or culture. Prereq: Permission of instructor.

Spanish

460/860M Independent Study

(1-3) Guided independent study and research under tutorial supervision. The course may be repeated with different topics but not in the same semester for maximum of six semester hours total. Prereq: Total Permission of instructor.

410/810M Theater of The Golden Age

Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina, and Calderon de la Barca. Prereq: For 410, Spanish 106 or permission of the instructor.

411/811M Novel of The Golden Age

Study of the prose masterpieces of the sixteenth and seventeenth centuries, including works as Lazarillo de Tormes, La Celestina, and Don Quixote. Prereq: For 411, Spanish 178 or permission of the instructor.
from classical Greeks to present. Prereq: Permission.


815V Advanced Geography (3) A study of advanced topics in geography. Prereq: Permission.

816V Urban Seminar in Metropolitan Planning and Development (2) An overview of the urban planning process, major policies, ideas, and controversies in the field of land use planning and urban development. Prereq: Permission.

817V Urban Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

820V/824V Interdisciplinary Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

823M Historical Geography of The United States (3) A course dealing with the geography of the United States. Emphasis is placed on the significance of events in the history of the United States. Prereq: Permission.

825M Geographical Methodology (3) An examination of the methods and techniques used by geographers in their work. Prereq: Permission.

831V Geography of Agriculture (3) A study of the geographic principles and methods used in the study of agriculture. Prereq: Permission.

833V Geography of Education (3) A study of the geographic principles and methods used in the study of education. Prereq: Permission.

834V Geography of Urbanism (3) A study of the geographic principles and methods used in the study of urbanism. Prereq: Permission.


836V Urban Seminar in Metropolitan Planning and Development (3) An examination of the historical development of urban planning and urban development. Prereq: Permission.

837V Urban Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

838V/838V Interdisciplinary Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

840V/840V Interdisciplinary Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

842V/842V Interdisciplinary Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

843V Geography of Agriculture (3) A study of the geographic principles and methods used in the study of agriculture. Prereq: Permission.

844V Advanced Geography (3) A study of advanced topics in geography. Prereq: Permission.

845V Physical Geography of The United States (3) A course dealing with the geography of the United States. Emphasis is placed on the significance of events in the history of the United States. Prereq: Permission.

855V Soil Science (3) An examination of the soil science methods and techniques used in the study of soil science. Prereq: Permission.

860V Independent Research (3) A special study of a topic in geography. Prereq: Permission.

861V Field Geology (3) A field study of geologic principles and methods used in the study of geology. Prereq: Permission.


863V Geographical Methodology (3) An examination of the methods and techniques used by geographers in their work. Prereq: Permission.

870V Land Use (3) A field course designed to understand, by actual field investigation, the land use patterns and land use changes in urban areas through the comprehension of social, physical, and economic factors which tend to shape the land use patterns. Prereq: Permission.


874V Social Geography (3) The philosophical basis of social geography. Prereq: Permission.

875V Urban Seminar in Metropolitan Planning and Development (2) An examination of the historical development of urban planning and urban development. Prereq: Permission.

876V Urban Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

877V Seminar in Regional Geography (3) A study of regional geography. Prereq: Permission.

880V/880V Interdisciplinary Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

881V Urban Seminar in Metropolitan Planning and Development (2) An examination of the historical development of urban planning and urban development. Prereq: Permission.

882V/884V Interdisciplinary Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

885V Land Use (3) A field course designed to understand, by actual field investigation, the land use patterns and land use changes in urban areas through the comprehension of social, physical, and economic factors which tend to shape the land use patterns. Prereq: Permission.

886V/888V Seminar in Urban Economics (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

887V/888V Seminar in Regional Economics (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

889V/891V Seminar in Comparative Gerontology (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

892V/894V Seminar in Comparative Gerontology (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

895V Urban Seminar in Metropolitan Planning and Development (2) An examination of the historical development of urban planning and urban development. Prereq: Permission.

896V Urban Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

897V Seminar in Regional Geography (3) A study of regional geography. Prereq: Permission.

898V/899V Urban-Regional Research (1-3) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

899V/901V Seminar in Comparative Gerontology (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.


903V Advanced Geography (3) A study of advanced topics in geography. Prereq: Permission.

904V Seminar in Educational Geography (3) A seminar on educational geography. Prereq: Permission.

905V Urban Seminar in Metropolitan Planning and Development (2) An examination of the historical development of urban planning and urban development. Prereq: Permission.

906V Urban Seminar on The Urban Community (2-6) An interdisciplinary course on the urban community in which various disciplines collaborate to analyze urban problems and propose solutions. Prereq: Permission.

907V Urban Seminar in Metropolitan Planning and Development (2) An examination of the historical development of urban planning and urban development. Prereq: Permission.

908V/908V Seminar in Urban Economics (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

909V/911V Seminar in Comparative Gerontology (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

910V/912V Seminar in Comparative Gerontology (3) An examination of the economic factors which tend to shape the land use patterns. Prereq: Permission.

911V Social Geography (3) The philosophical basis of social geography. Prereq: Permission.
Health, Physical Education and Recreation

General HPER

Health Education

455/855M Health Aspects of Aging (3) The study of psychological, sociological, and physiological factors that influence the health of the aging; with particular emphasis given to biological changes that have implications for aging and health disorders. Prereq: For 455, six hours of health instruction of the instructor. (5)

801V Elementary School Health Education: Selected Content Areas (3) A course designed to provide the student with an indepth study of selected content areas in the health education of elementary school children. These content selected areas include: Drug education, nutrition, dental health, human sexuality, health education. In addition an abbreviated overview of health education in the elementary schools will be provided. Prereq: Graduate standing.

Professional Physical Education

453/853M Measurement and Evaluation of Physical Education (3) Analysis of test measurement apparatus and testing procedures. Includes physical education criteria review and basic descriptive statistics. Practical experience in test administration is provided. Prereq: For 492, junior standing and physical education 243S. (S, Su)

494/894M Physiology of Exercise (3) A study of the major physiological systems of the human body and their response to exercise and the exercise program of programs in physical education. Prereq: For 494, HPER 285/3.

422V Problems and Issues in Physical Education (3) A survey of current problems and issues in college, secondary, and elementary physical education. Special emphasis is given to problems that relate to the general aims and purposes of physical education.

425V Supervision of Physical Education (3) Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.

426V Curriculum in Physical Education (3) A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.

340V Analysis of Research and Literature in Human Movement (3) Survey of research and the nature and administration for the purpose of orienting the student to possible areas of research and problems in understanding and appreciation of writings in the field.

377V Improvement of Instruction in Physical Education (3) A course in the examination and discussion of current programs, content, methods, and materials within physical education. Emphasized is the improvement of the teaching of physical education.

400V Motor Learning and Performance (3) A study of the conditions and factors which influence the learning and performance of motor skills and the parallel attention being given to those skills having relevance for the teacher of physical education.

840V Kinesiological Analysis of Motor Skills (3) An investigation of the biomechanical bases for the motor performance. Includes a descriptive analysis of motor skills and fundamental movement patterns and an examination of techniques for collecting biomechanical data.

899 Thesis (1-6) Independent research project written under the supervision of an advisor. Prereq: Permission.
to the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 427, junior standing or permission of the instructor.

428/828M Twentieth Century America Since 1914 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 428, junior standing or permission of the instructor.

433/833M Constitutional History of The United States to 1850 (3) A history of constitutional theory and practice since 1860. Prereq: For 433, junior standing or permission of the instructor.

434/834M Constitutional History of The United States Since 1865 (3) A history of constitutional theory and practice since 1860. Prereq: For 434, junior standing or permission of the instructor.

440/840M History of North American Indians (3) A survey of the history of aboriginal peoples, and the continuing problems faced today. Prereq: For 440, junior standing or permission of the instructor.

442/842M History of American Science (2) A study of the origins, development, and nature of American science and its relationships with social, political, and cultural factors. Prereq: For 442, junior standing or permission of the instructor.

443/843M American Urban History to 1870 (3) A study of urban development in the United States from the colonial period through the 1860s: urban society, problems, institutions, roles of cities in national history; American ambivalence toward cities. Prereq: For 443, junior standing or permission of the instructor.

444/844M American Urban History Since 1870 (3) A study of American urbanization from 1870 to the present; influence of technology, transportation, industry, immigration, urban politics, and reform movements; emergence of metropolitan America and problems of the contemporary super-city. Prereq: For 444, junior standing or permission of the instructor.

447/847M History of American Medicine and Public Health (3) Analysis of the relationship and interaction of medical thought and practice with the political, social, and economic problems and institutional development, and the changes in American society and culture from the 17th to the 20th century. Prereq: For 447, junior standing or permission of the instructor.

451/851M Intellectual History of Modern Europe Since 1485 (3) A study of the development of the intellectual and educational ideas of the last century and a half. Emphasis will be upon the emergence of European culture to life's great questions. Prereq: For 451, junior standing or permission of the instructor.

453/853M The Age of the Reformation (3) A study of an era characterized by the domination of Renaissance culture, the decline of the authority of the medieval church, the rise of nationalism, changing economic and political structures, religious upheaval, and interrelated political, religious, and social trends. Prereq: For 453, junior standing or permission of the instructor.

454/854M The Age of Absolutism (3) The emergence of new political leaders and forces immediately precedent to World War I, the peace following the war and the development of a new generation of statesmen. Prereq: For 454, junior standing or permission of the instructor.

455/855M The Age of Enlightenment (3) An examination of eighteenth-century society and culture with the attendant rise of the American, French, and Russian empires, and the causes of the French Revolution. Prereq: For 455, junior standing or permission of the instructor.

456/856M The French Revolution and Napoleon Era: 1789-1815 (3) A study of the French revolution and the Napoleonic era with particular attention to the development of democratic practice concurrent with the development of modern authoritarianism. Prereq: For 456, junior standing or permission of the instructor.

457/857M Nineteenth Century Europe: 1815-1870 (3) An advanced interpretive analysis of the political and cultural development of Europe from the Congress of Vienna through the revolutions of 1848. Prereq: For 457, junior standing or permission of the instructor.

458/858M Nineteenth Century Europe: 1870-1914 (3) An advanced interpretive analysis of the political and cultural development of Europe from the revolutions of 1848 to 1870. Prereq: For 458, junior standing or permission of the instructor.

460/860M Turf and Stuart England (3) A study of England under the Tudors when the English people rose magnificently and experienced a golden age, and of the last remnants of medieval things and the formation of new institutions and new ways of life of our world of today. Prereq: For 460, junior standing or permission of the instructor.

461/861M English History: From Empire to Commonwealth (3) A study of the change from the British Empire to Great Britain from the late 18th century to 1918. Prereq: For 461, junior standing or permission of the instructor.

462/862M English History: From Empire to Commonwealth (3) A study of the change from the British Empire to Great Britain from the late 18th century to 1918. Prereq: For 462, junior standing or permission of the instructor.

464/864M English Constitutional History Since 1485 (3) The history of political institutions and governmental structures. Prereq: For 464, junior standing or permission of the instructor.

474/874M Nineteenth Century Intellectual History of Russia (3) A pro-seminar emphasizing the nineteenth-century revolution; tradition, prototypes, ideology and impact upon modern Russian society. Prereq: For 474, junior standing or permission of the instructor.

477/877M Europe in Crisis: 1890-1952 (3) A study of the foreign and domestic problems of Europe after the First World War. Prereq: For 477, junior standing or permission of the instructor.

481/881M Comparative Imperialism (3) A study of the ever-increasing tensions between the Fascist and Communist dictators and the western democracies, World War II, the resultant dissolution of the old colonial empires, and the rise of the new anarchy of terror. Prereq: For 481, junior standing or permission of the instructor.

501 M History of Science to 1700 (1) A study of the development of modern science and its relationship to technology, society, and social thought. Prereq: Graduate standing or permission of the instructor.

502 M History of Science to 1700 (1) A survey of historical and critical reappraisal of the development of science and its relationship to technology, society, and social thought. Prereq: Graduate standing or permission of the instructor.

607 Occupational Experience Programs (1-6) Focus on problems of contemporary interest in the area of occupation and career counseling; the student will be assigned a preceptor for supervision and planning. Prereq: 460 hours and permission of instructor. (Not open to credit to students who have taken Hist. 461 or the equivalent.)

609V Parent Education With Field Experiences (1-6) Focus on problems of contemporary interest in the area of parent education. Prereq: 600 hours and permission of instructor. (Not open to credit to students who have taken Hist. 461 or the equivalent.)

610V Great American Historians (1) A study of selected works of American historians; emphasis upon major works. Prereq: For 460, junior standing or permission of the instructor.
421/821 Industrial Quality Control

417/817 hyergei

315 or permission.

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tension of

315 or permission.

405/805 Analysis of Engineering Manage-

res.

195 and 201.

364/84J Modern Geometry (3)

Axiomatic systems, finite geometries, non-Euclidean geometries, projective geometry.

441/84M Introduction to The Foundations of

440/84J Mathematical Analysis I (3)

Axiomatic systems, finite geometries, non-Euclidean geometries, hyperbolic and other noneuclidean (geometric, projective geometry).

411-412/M116-121M Abstract Algebra (Each 3) An introduction to abstract algebra: categories, groups, rings, fields, integral domains, special topics.

423/823M Mathematical Analysis I (3) Provides a theoretical foundation for calculus. Includes: sequences, series, continuity, differentiability, and integration.

424/824M Mathematical Analysis II (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include the real number system, topology of the real line, limits, functions of one variable, continuity, differentiability, and integration. Prereq: Math 197 and 201 and at least one 300-level course in mathematics.

435/835M Computer Organization (3) Basic digital design concepts; computer logic, computer logic, digital design and digital arithmetic. Digital storage and access, control functions, input-output devices, system organization and reliability. Description and simulation techniques.

440/844 Industrial Systems Analysis I (3) Simulation of production planning and applications.


446/860J Elementary Topology (3) Open sets, closed sets, limits, continuity, connected sets, compactness, metric spaces.

447/870M Introduction to Theory of Computers (3) Assemblies, interpreters and compilers. Compilation of simple expressions and statements. Control structures, recursion, control structures, recursion, control structures, recursion.


452/862M Advanced Programming Techniques (3) Advanced programming techniques. Software design, software development, software maintenance, software testing.


454/872M Complex Variables (3) Differentiation, integration, and power series expansions of analytic functions. Conformal mapping, residue calculus, and applications.


464/873M Operation Research (3) Linear programming, network analysis, dynamic programming, integer programming.


471/882M Advanced Programming Techniques (3) Advanced programming techniques. Software design, software development, software maintenance, software testing.

472/883M Complex Variables (3) Differentiation, integration, and power series expansions of analytic functions. Conformal mapping, residue calculus, and applications.


**The Graduate Bulletin**

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**Physics**

301/801J Elements of Electrodynamics (3) The background of theory, computation, and practice of electronic devices and circuits, partial differential equations, and energy. Prereq: Math 423, 424, or 427, 858V needed for 836V.

858V Calculus of Variations (3) Introduction to classical theory and applications. Prereq: Math 423, 424, 427, 858V.

302/802J Optics (3) The nature of light energy as discussed through studies of geometrical, physical, and quantum optics. Prereq: Math 196 and Physics 112 or 212.

302L/802J Optics Laboratory (1)


375/875J Electricity and Magnetism I (3) An advanced discussion of electrodynamics and magnetohydrodynamics, special relativity, and general relativity. Prereq: Calculus, Physics 315 or 423, or equivalent modern physics course.

376/876J Electricity and Magnetism II (3) A course in electrodynamics. Topics include Maxwell's equations and methods for their solution, boundary conditions, as well as energy, momentum, and transformations of the fields. Prereq: Physics 375.

378/878J Laboratory for Electricity and Magnetism (3) A laboratory course in electrodynamics. Includes Maxwell's equations and methods for their solution, boundary conditions, and energy, momentum, and transformations of the fields. Prereq: Physics 375.

403/803M The Presidency (3) A study of the executive branch of the federal government, with emphasis on presidential activity, policy formulation, and implementation. Prereq: For 410, 405, and permission of instructor.

404/804M The Judicial Process (3) A study of the judicial branch of the federal government, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

405/805M The Constitution (3) A study of the development of the Constitution, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

407/807M Social Research Methodology (3) A study of the role of social research in the development of public policy, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

410/810M Comparative Social Politics (3) A study of the role of social research in the development of public policy, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

412/812M Modern Physics (3) A course in the history, philosophy, and practice of modern physics, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

414/814M Nuclear Physics (3) A study of the role of social research in the development of public policy, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

415/815J Quantum Mechanics (3) A course in the history, philosophy, and practice of modern physics, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

416/816J Modern Physics Laboratory (1)

417/817J Atomic and Molecular Physics (3) A course in the history, philosophy, and practice of modern physics, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

434/834M Principles of Geology (3) A course in the history, philosophy, and practice of modern physics, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.

438/838M Descriptive Astronomy (3) A course in the history, philosophy, and practice of modern physics, with emphasis on the role of the Supreme Court in the administration of justice. Prereq: For 410, 405, and permission of instructor.
theories

the view and analysis of the leading political

696/896M Topics in Political Science (A)

695/895M Topics in Political Science (B)

694/894M Topics in Political Science (C)

693/893M Topics in Political Science (D)

692/892M Topics in Political Science (E)

691/891M Topics in Political Science (F)

690/890M Topics in Political Science (G)

689/889M Topics in Political Science (H)

688/888M Topics in Political Science (I)

687/887M Topics in Political Science (J)

686/886M Topics in Political Science (K)

685/885M Topics in Political Science (L)

684/884M Topics in Political Science (M)

683/883M Topics in Political Science (N)

682/882M Topics in Political Science (O)

681/881M Topics in Political Science (P)

680/880M Topics in Political Science (Q)

679/879M Topics in Political Science (R)

678/878M Topics in Political Science (S)

677/877M Topics in Political Science (T)

676/876M Topics in Political Science (U)

675/875M Topics in Political Science (V)

674/874M Topics in Political Science (W)

673/873M Topics in Political Science (X)

672/872M Topics in Political Science (Y)

671/871M Topics in Political Science (Z)
425V/852M The Limits of Consciousness (3) A survey of theories and research on altered states of consciousness. Emphasis on experimental as well as intellectual proclivities. Prereq: Psychology 102 or junior standing.

427V/872M Animal Behavior (3) Behavior of diverse animals for the understanding of the relationships between various integration and the behavior manifested by the organism, as well as the tendency and adaptive significance of behavior as to functional unit. Prereq: Psychology 102 or junior standing. (Same as Biology 427 and 827m)

431V/831M Psychological and Educational Testing (3) The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity. Prereq: Psychology 102 or junior standing.

433V/833M Individual Differences (3) A critical study of measurement and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in causing of individual differences in mental traits. Prereq: 9 hours of psychology, including Psychology 161 and Psychology 162 or equivalent.

443V/843M Psycholinguistic (3) An integrative course designed to acquaint the student with the Freudian and psychoanalytic viewpoints. Research studies are emphasized. Prereq: Psychology 213 or equivalent, and Psychology 343.

444V/844M Abnormal Psychology (3) A course is designed to acquaint the student with the abnormal behavior of individuals. Symptoms, dynamics, and treatment of personality disorders are considered. A research approach is emphasized. Prereq: Psychology 213 or equivalent, and Psychology 343.

445V/855M Personality Theories (3) A comparative perspective of understanding personality theory emphasizing the conflict, conflict warranty, and the interpersonal consistency approaches to personality. Prereq: Psychology 213 or equivalent, for standing or permission.

447V/847M Jungian Psychology (3) This course emphasizes the relation between diagnosis and treatment with a Jungian approach embracing biographical, philosophical, psychological, and theological. Readings are emphasized. Prereqs: 343 or 444, 800V or Psychology 445/485m.

448V/848M Eastern Psychology (3) Theory and research on Eastern psychology is emphasized on both dominant and non-dominant brain hemispheres. Daily practice of non-linguistic thinking is required. Prereq: For 448, junior standing and permission of instructor.

452V/852M Psycholinguistics (3) A discussion of how such psychological variables as perception, learning, memory, and development relate to the linguistic variables and the sentence structure and sound, and speech sounds. Prereq: For 452, junior standing or permission of instructor.

455V/855M Retardation (3) This course considers significantly subaverage intellectual functioning originating during the developmental period and associated with impairment in adaptive behavior. Prereq: Psychology 431/831m, or Psychology 343 or 445/854m.

458V/858M Geropsychology (3) This course will be on the principles of geropsychology of aging. The focus will be on the period of later adulthood or aging. Prereq: Psychology 102 or permission of instructor. (Same as Gerontology 458)

459V/859M Psychology of Exceptional Children (3) An introduction to methods of identifying and serving children with visual, auditory, or psychological impairments. Topics include biological, psychological, and social impairments, emotional and social maladjustments, learning disabilities, and other special needs. Prereq: Psychology 102 or permission of instructor. (Same as Psychology 343 or 351).

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

462V/862M Psychological Aspects of Industrial Training and Performance (3) An introduction to the theory, techniques, and procedures involved in preparing individuals for their jobs through training and education. Prereq: Psychology 302 and Psychology 343.

463V/863M Techniques of Programmed Instruction (3) An introduction to methods and their applications for preparing individuals for their jobs through instruction. Prereq: Psychology 101 and permission of instructor.

469V/869M Research Problems in Physiological Psychology (3-6) An individualized introduction to the techniques and methodology used in the physiological laboratory. Prereq: Psychology 323 or permission of instructor.

480V The Profession of Psychology (3) A required non-credit course which situates psychology in the larger society. Prereq: For 480, junior standing and permission of instructor.

490V/890M Independent Study in Psychology (1-6) Faculty supervised experience in industry or business designed to acquaint the student with practical problems in the workplace. Prereq: Write permission of your psychology committee.

491V/891M Research Projects in Psychology (1-6) A faculty supervised research project involving original work in psychology. Students, with faculty permission, may enroll in the course for graduate credit. Prereq: Permission of your psychology committee.

492V/892M Clinical Psychology (1) This course is designed to acquaint the student with practical problems in the psychotherapy setting. Prereq: Write permission of your psychology committee.

532V/832V Tests and Measurement (3) A study of the theoretical and practical problems related to the construction and interpretation of psychological tests. Prereq: Psychology 102 or permission of instructor. (Same as Speech 855v).

551V/851V Advanced Educational Psychology (3) A study of the principles of learning and teaching and their applications to problems of contemporary educational problems existing in the classroom. Prereq: Psychology 343.

585V/853M Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master’s degree and Psychology 431/831m or 852V, or permission of instructor. (Same as Psychology 343 or 351).

584V/854V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon achievement testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master’s degree and Psychology 431/831m or 852V and admission to either psychological assistant or school psychologist program.

585V/855V Introduction to Therapeutic Techniques With Children (3) The purpose of this course is to familiarize the student with therapeutic techniques for the treatment of children. Prereq: Psychology 101 and permission of instructor.

586V/856V Neurophysiological Research (3) A study of the role of the nervous system and the body in brain, learning, behavior, and thought. Prereq: Psychology 102 or permission of instructor.

588V/858V Learning in Children (3) This course focuses on the development of the child's ability to learn. Prereq: Psychology 102 or permission of instructor.

589V/859V Psychological Aspects of Learning in Children (3) An introduction to the psychological aspects of learning in children. Prereq: Psychology 102 or permission of instructor. (Same as Sociology 385).

591V/861V Advanced Theoretical Psychology (3) A study of theories and research on cognitive and linguistic development. Prereq: Psychology 102 or permission of instructor.

592V/862V Developmental Psychology (3) An in-depth coverage of the research literature on development, will be emphasized throughout the course. All students will be expected to design their own research projects and to choose a general topic in the area of social and personality development.

593V/863V Psychology of Women (3) A course concerned with the current status of women in psychology and research pertaining to women. Prereq: Psychology 101 and permission of instructor. The use of reference material will be emphasized. Students will participate in the conduct of the course and will be expected to make an oral and written research proposal. Prereq: Graduate standing, and others by permission of instructor.
944 Proseminar: Social Psychology (Pedrini, Kessler, Lavio) (3) Examination of theories, research, and teaching in social psychology. Topics will include social interaction, leadership and group effectiveness, attitudes, attitude measurement, and attitude change; intergroup relations and social influence. New topics will be added as they become part of the research interests of the social psychologists. Prereq: Permission of the instructor.

945 Experiment Social Psychology (Recker, Kessler) (4) Acquisition of basic research and a working understanding of philosophical and methodological issues in social studies, either by himself or as a part of a small group.

956 Proseminar; Developmental Psychology (Hendricks, Strider) (3) A theoretical and intensive coverage of the experimental literature on perception in humans and animals. Prereq: Permission of instructor.

967 Proseminars in Application of None-Verbal Communication Theory (Hendricks, Strider) (3) A study of the theory and practice of non-verbal communication with special emphasis on the relationship between the art and science of public administration and the processes and procedures involved in making decisions. Credit cannot be earned for both P 321 and equivalent. Prereq: Permission of instructor.

968 Seminar in Experimental Child Psychology (Hamm, Lavio) (3-6) Faculty and student presentations organized around one of the following major subfields of child psychology: (1) Social and personality development, (2) Unconscious processes and problem conditioning and testing, (3) Cognitive growth and functioning. The course will consider areas where each time a different topic is covered, up to a maximum total of nine credit hours. Prereq: Completion of the prerequisite sequence or equivalent and permission of the instructor.

969 Proseminar: Developmental Psychology (Hendricks, Strider, Millimet, Wikoff) (3) A study of the processes and procedures involved in making decisions. Credit cannot be earned for both P 321 and equivalent. Prereq: For 440, P.A. 317, senior standing. For 440M, Prerequisite: 441M.

441M Public Personnel Management (3) A study of the personnel process in American government. Emphasis is placed on analysis of personnel policies and problems of organization behavior in government agencies. The course includes problem analysis, field investigations, and improved methods and measures of personnel performance. Prereq: Permission of the instructor.
problems of annexation. Prepro. Geoc. 412 or recommendation of pol sci, soc, or econ de-
partment. 892V Readings in Public Administration
(1-3) Specially planned readings in public ad-
mistration. The graduate student who encounters scheduling problems in the com-
pleting of this course should consult with the special preparatory needs and who is ad-
judged by the department to be capable of pursuing an independent course of study.
894V Research in Public Administration
(1-3) The course is intended for advanced gradu-
ate students in public administration. It is espe-
cially suited for those in-career students who have had their internships waived and who might profit more by in-depth research on a problem of special significance.
833V Practicum Teaching-Community
(3) The practicum experience is intended for graduates who wish to become instructors at the community or junior college level. The student will be placed in a practicum situation in a recog-
nized teaching field under the supervision of a certified or supervised community college professor, or who has instruction from the College of Education supervisor. 820V Seminar for Cooperating Teachers
(3) A seminar for cooperating and prospective co-
operating teachers. Discussion of trends, research and evaluation of student teachers and student aides in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.
855V Seminar in Secondary Education
(3) Intensive study of problems of secondary edu-
cation. Critical analysis of current research and related literatures; group discussion of trends and opportunities that have implications for the classroom teacher.
827V International Curriculum Practices
(3) An analysis of practice and procedures in pro-
curricula in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educational specialists, English teachers, teachers of the humanities in the other classroom teachers to gain information about adolescents, their read-
ing and viewing habits and interests. Factors which will be examined will be the influence of language, religions, and social conditions. 830V Emerging School Curriculum
(3) Designed to provide the student with understan-
ding of the nature and trends in secondary school curriculum development with the princi-
ple and practices utilized in cross-cultural curricu-
lum planning. Strong emphasis is placed on curriculum construction.
832V Analysis of Teacher Behavior
(3) Emphasis is placed upon current observational systems for analysis of classroom, teacher coordination and observation of the teacher with special emphasis upon local administra-
tion of the part-time cooperative pro-
gram and analysis of the laws and regulations governing this program. 480V/880M Principles of Vocational Educa-
tion
(3) A study of the basic philosophy under-
ying vocational education and the principles and practices in the various fields. FS,Su
482/882M Literature for The Adolescent
(3) This course is designed to assist library media specialists, English teachers, teachers of the humanities and other classroom teachers to gain information about adolescents, their read-
ing and viewing habits and interests. Factors which will be examined will be the influence of language, religions, and social conditions. 820V Seminar for Cooperating Teachers
(3) A seminar for cooperating and prospective co-
operating teachers. Discussion of trends, research and evaluation of student teachers and student aides in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.
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curricula in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educational specialists, English teachers, teachers of the humanities in the other classroom teachers to gain information about adolescents, their read-
ing and viewing habits and interests. Factors which will be examined will be the influence of language, religions, and social conditions.
1005V Research Project
(1-5) The student will participate in a field study in a discipline, with one or more independent investigators or a supervised instructor. 833V Practicum Teaching-Community
(3) The practicum experience is intended for graduates who wish to become instructors at the community or junior college level. The student will be placed in a practicum situation in a recog-
nized teaching field under the supervision of a certified or supervised community college professor, or who has instruction from the College of Education supervisor. 820V Seminar for Cooperating Teachers
(3) A seminar for cooperating and prospective co-
operating teachers. Discussion of trends, research and evaluation of student teachers and student aides in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.
855V Seminar in Secondary Education
(3) Intensive study of problems of secondary edu-
cation. Critical analysis of current research and related literatures; group discussion of trends and opportunities that have implications for the classroom teacher.
827V International Curriculum Practices
(3) An analysis of practice and procedures in pro-
curricula in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educational specialists, English teachers, teachers of the humanities and other classroom teachers to gain information about adolescents, their read-
ing and viewing habits and interests. Factors which will be examined will be the influence of language, religions, and social conditions.
1005V Research Project
(1-5) The student will participate in a field study in a discipline, with one or more independent investigators or a supervised instructor.

840V Improvement of Instruction of Second-
ary School Language (3) Exploration of the implications of recent research in language and literature and their relationship to the teaching of English.
841V Improvement of Instruction of Second-
ary School Journalism (3) An examination of the implications of recent research in the teaching of journalism and its relationship to the teaching of English.
844V Improvement of Instruction of Second-
ary School Social Studies (3) Designed as-
pecially for teachers who are interested in the teaching of social studies. It will encompass the whole range of op-
portunities available for the improvement of so-
cial studies instruction; emphasis will be on understanding and applying the various programs that have implications for the classroom teacher.
846V Reading in Special Education (3) Designed to provide for the student who wishes to become a better instructor in the teaching of reading, and to become familiar with a wide range of instructional and evaluation techniques for the classroom teacher.
847V Reading in Special Education (3) Designed to provide for the student who wishes to become a better instructor in the teaching of reading, and to become familiar with a wide range of instructional and evaluation techniques for the classroom teacher.
855V Seminar in Secondary Education
(3) Intensive study of problems of secondary edu-
cation. Critical analysis of current research and related literatures; group discussion of trends and opportunities that have implications for the classroom teacher.
827V International Curriculum Practices
(3) An analysis of practice and procedures in pro-
curricula in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educational specialists, English teachers, teachers of the humanities and other classroom teachers to gain information about adolescents, their read-
ing and viewing habits and interests. Factors which will be examined will be the influence of language, religions, and social conditions.
1005V Research Project
(1-5) The student will participate in a field study in a discipline, with one or more independent investigators or a supervised instructor.
833V Practicum Teaching-Community
(3) The practicum experience is intended for graduates who wish to become instructors at the community or junior college level. The student will be placed in a practicum situation in a recog-
nized teaching field under the supervision of a certified or supervised community college professor, or who has instruction from the College of Education supervisor. 820V Seminar for Cooperating Teachers
(3) A seminar for cooperating and prospective co-
operating teachers. Discussion of trends, research and evaluation of student teachers and student aides in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.
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(3) A seminar for cooperating and prospective co-
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827V International Curriculum Practices
(3) An analysis of practice and procedures in pro-
curricula in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educational specialists, English teachers, teachers of the humanities and other classroom teachers to gain information about adolescents, their read-
ing and viewing habits and interests. Factors which will be examined will be the influence of language, religions, and social conditions.
Prep - For 441, SW 420, 421, 451, 452, and permission of the instructor. For 841, SW 883; or permission of the instructor.

442/842 Social Work Practicum (3) Staff and assistants in field instruction. Supervised field practice with individuals, groups, or communities in selected social welfare agencies. For 442, SW 444, SW 430, 441, 442, and permission of the instructor. For 842, SW 841 or permission of the instructor.

97 Social Work Practicum III (3-4) Staff and assistants in field instruction. Supervised field practice with individuals, groups, or communities in selected social welfare agencies. For 97, SW 977 or permission of the instructor.

977 Social Work Practicum V (3-4) Staff and assistants in field instruction. Supervised field practice with individuals, groups, or communities in selected social welfare agencies. For 977, SW 979 or permission of the instructor.

Social Welfare Policy and Services

451/851 Social Welfare Policy and Services I (4) Tracing the development of major social welfare programs and policies in the U.S. Principles and concepts of policy analysis are developed through an examination of the effect of social welfare policies. For 451, SW 451, 452, and for 851, graduate standing or permission of the instructor.

452/852 Social Welfare Policy and Services II (3) This course builds on SW 451 and involves the development of specific criteria for analysis of welfare policies and services. For 452, SW 452. For 852, Social Work 451, 1st year graduate standing.

Social Welfare Research

483 Research Methods in Social Work (2) (Required) Collection, analysis, and presentation of social welfare data, including the commonly used statistical devices, general types and methods of research related to social welfare research, and the analysis of disguised data relative to social welfare. Research in relation to taxation administration; sources of support for social research, role of the faculty. Permission of director and instructor.

89 Master's Thesis (6-10) (Elective) Supervised individual research for second year students taking the thesis alternative to meet research requirements for the degree of Master of Social Work. For 897, SW 882 or equivalent.

936 Other Than Thesis (2) (Elective) Individual research projects for second year students taking this alternative to meet research requirements for the degree of Master of Social Work. Attendance at regular seminars may be required. For 936, SW 883 or permission of the instructor.

87 Seminar in Research for Social Work (2-3) (Elective) Emphasis is placed on utilizing research techniques in the discipline. Major concepts, principles, theories, and techniques as related to research will be evaluated. For 87, SW 871 or permission of the instructor.

924 Social Work Practice in Mental Health (2-3) (Elective) Consideration of the practice of social work in mental health with special emphasis on current trends, principles, and practice. For 924, SW 892 or permission.

925 Social Work Practice in Mental Health II (2-3) (Elective) Consideration of the practice of social work in mental health with special emphasis on current trends, principles, and practice. For 925, SW 893 or permission.

962 Administration in Social Work (2-3) (Elective) Administration as a process involving the total social welfare structure. Government and voluntary agencies. Problems encountered in administration and principles applicable to administration of social welfare services. Graduate standing and permission.

964 Supervision in Social Work (2-3) (Elective) Basic teaching and learning theories patterns in the training of the social worker. Intensive study of principles, skills, and techniques of the supervisory process, as well as the administrative function of the supervisory role with trained, experienced staff or volunteers. Graduate Second year standing or permission.

970 Community Planning and Organization (2) (Required) Importance of social process in the community; existing organizations to meet social problems, especially those related to community in relationship to the worker as community planner.

98 Advanced Seminar in Social Work Practice (2-3) (Required) Consideration of trends, problems, and issues in current social work practice. Exploration of innovative ideas in the delivery of services and of changing concepts of social work function. For 98, SW 981 or permission.

Special Studies

96 Special Studies in Social Welfare (2-3) (Elective) Special study of topics related to undergraduate studies in selected areas of social work curriculum. Graduate standing and permission.

Sociology

Anthropology

421/621M Cultural Anthropology (3) Family, art, war, religion, prestige, religion approached as parts of an integrated whole, a social structure. Human societies, illustrations from a number of simple societies, anthropological theories, methods of study, For 421, Anthropology 105. For 621M, permission of the instructor.

411/611M Applied Social Anthropology (3) An introduction to social anthropology with a special emphasis on the effects of aging on social institutions and an examination of practice oriented implications. (This course is one of the series which...
420/522M Teaching of Speech to the Deaf II (3) Continuation of SpEd 421; focus on various types of speech learning problems found in a population of deaf children. Prereq: For 422, Special Education 421. (S)

423/523M Language Development of Hearing Impaired Children (3) Development of functional language for the hearing impaired child; materials, methods, and materials for developing language skills; beginning reading skills as related to the acquisition of language. Prereq: For 423, junior standing. Teacher education and 2.5 GPA. (F)

424/524M Introduction to Teaching of Language to the Deaf II (3) Continuation of SpEd 423 with further consideration of criteria for selection and utilization of teaching materials; special emphasis on language principles for the older deaf pupil. Prereq: For 424, Special Education 423. S

425/525M Speech Reading and Auditory Training I (3) History of development of speech (Up) Reading; methods and practices in teaching speech reading for various ages and degrees of hearing impairment. Prereq: For 430, junior standing. Teacher education and 2.5 GPA. (F)

430/530M Teaching School Subjects to the Deaf II (2) Consideration of problems in deaf education; approaches to school subjects considered in detail. Prereq: For 435, Special Education 434. (F)

438/538M Speech Science I: Auditory and Speech Mechanism (3) Basic structure and functions of the organs involved in hearing and speech. Prereq: For 438, junior standing. 2.5 GPA. (S)

440/540M Learning Disabilities (3) Study of specific learning disabilities among children; developmental psychology, learning theory, perception, definition; causal factors of learning disabilities; evaluation, classification for identification of the disabled; considerations for the educational needs, services and treatment of the disabled; family and societal relationship to the handicapped; methods, techniques and devices used to teach the handicapped; the status of the field and trends in it, the administration of programs for the retarded. Prereq: For 440, junior standing. Teacher education and 2.5 GPA. (F,S,Su)

443/543M Speech Pathology I: Childhood Language Impairments (3) Types and causes of voice and articulation disorders; classroom observations; special emphasis on rehabilitation procedures and methods associated with childhood language disorders. Prereq: For 443, junior standing. Teacher education and 2.5 GPA. (F,S,Su)

444/544M Speech Pathology II: Rhythm and Symbolic Disorder (3) Types and causes of rhythm and language symbolization disorders, classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with stuttering, aphasia and delayed language development. Prereq: For 444, junior standing. 2.5 GPA. (F,S,Su)

445/545M Speech Science II: Experimental and Applied Phonetics (3) Analysis of phonetic systems; articulatory elements in major American English dialects; practice in transcription and dialect selection and defective speech use of the sound spectrograph, spiroener and other equipment. Prereq: For 445, junior standing. 2.5 GPA. (F,S)

450/550M Communication Disorders in The Elementary and Secondary Schools (3) Speech correction procedures as related to the education of public and private schools for school age children. Prereq: 450, Special Education 443 or Special Education 444. For 450, 850m, graduate standing and 6 hours of speech pathology courses. (F)

451/551M Basic Clinical Practicum in Speech Pathology (3) Minimum of 45 clock hours per credit hour of supervised practice in speech and hearing clinic, speech and hearing evaluation, therapy sessions, clinical records, and a week-long colloquium. Prereq: For 451, Special Education 443 or Special Education 444. For 851m, graduate standing and permission of the instructor. (F,S,Su)

460/560M Introduction to the Physically Handicapped (3) Nature and educational needs of children and youth who are physically handicapped; defects; prevalence and types of children in educational programs; history, trends. Prereq: For 460, junior standing. 2.5 GPA. (F)

467/567M Special Projects (1-3) A series of intensive courses especially for teachers in-service scheduling in terms and workshops, according to purpose. (F)

468/568M Interdisciplinary Approaches to Developmental Disabilities (3) This is an introductory course dealing with the various developmental problems as they are viewed by different disciplines in the education of handicapped children. The different disciplines will combine to present and analyze their role in working with the developmentally disabled children. Prereq: For 468, junior standing. 2.5 GPA. (F,S,Su)

469/569V Research Projects (3) Individual or group study and analysis of specific problems. (F)

483/583M Diagnostic and Remedial Instruction (3) This course is intended for advanced students in which they will work with the student with the necessary training for establishing and operating a remedial reading center (i.e., initial and continuing assessment schedules, administration and monitoring appropriate educational devices, implementation of remedial reading techniques). Prereq: Special Education 860m. 2.5 GPA. (F)

484/584M Measurement and Evaluation of Reading (3) A course for advanced students in which they will work with the student with the necessary training for establishing and operating a reading center (i.e., initial and continuing assessment schedules, administration and monitoring appropriate educational devices, implementation of remedial reading techniques). Prereq: Special Education 860m. 2.5 GPA. (F)

485/585V Diagnostic Clinical Practicum in Speech and Language (3) Laboratory-oriented course for advanced students in which they will work with the student with the necessary training for establishing and operating a reading center (i.e., initial and continuing assessment schedules, administration and monitoring appropriate educational devices, implementation of remedial reading techniques). Prereq: Special Education 860m. 2.5 GPA. (F)

486/586M Basic Audiology (3) History of the field of audiology, types, causes, pathologies, diagnostics, basic audiometric testings, basic supervised training in hearing conservation, medical referral, and remediation. Prereq: For 486, Special Education 368 and 2.5 GPA. (F,S,Su)

487/587M Emotional Development of Children and Youth (3) An introductory study of emotional maturation of children and youth with special emphasis on emotional development, the means of intervention, and the effects of emotional development. Prereq: For 487, junior standing. 2.5 GPA. (F)

488/588M Classroom Techniques for Behavior Control (3) This course explores the alienation of children in society and how they may be helped to achieve appropriate behavior. It is particularly appropriate for those teachers who are emotionally disturbed or who have a number of management problems in their classes. Prereq: For 487, 488, 489M, or 480M, or 481/M. For 881M, graduate standing. (S)

489/589M Introduction to the Physically Handicapped (3) Nature and educational needs of children and youth who are physically handicapped; defects; prevalence and types of children in educational programs; history, trends. Prereq: For 489, junior standing. 2.5 GPA. (F)

490/590V Basic Audiology (3) History of the field of audiology, types, causes, pathologies, diagnostics, basic audiometric testings, basic supervised training in hearing conservation, medical referral, and remediation. Prereq: For 490, junior standing. 2.5 GPA. (F,S,Su)

491/591M Psychology of Speech (3) Psychological processes basic to speech, hearing, language learning, speech perception, semantics; interrelationships between speech and personality. Prereq: For 491, 492, 493, 494, or 495M. For 491M, graduate standing and permission of the instructor. (F)

492V Advanced Studies in The Disorders of Voice (3) Types and causes of voice disorders; diagnosis; special emphasis on rehabilitation procedures associated with individual involvement; praxis. (F)

493V Advanced Studies in The Disorders of Voice and Rhythm (3) Types and causes of voice disorders; diagnosis; special emphasis on rehabilitation procedures associated with individual involvement; praxis. (F)

494V Advanced Studies in The Disorders of Aphasia and Related Problems (3) Types and causes of language symbolization disorders. Prereq: For GL 599, graduate standing. (F)

495V Current Practices in Speech Pathology and Audiology (3) This course is designed to study and experience in speech therapy programming utilizing behavioral modification techniques based on Skinnerian-behaviorist principles. It includes a review of current literature in the areas of operant and language remedial procedures. Prereq: Special Education 440. (F,S)

496V Diagnostic Methods in Communicative Disorders (3) Tests and procedures for evaluating individuals with specific communicative disorders; specific emphasis on operant and operant language remedial procedures. (F)

497V Speech Science III: Neurophysiology of Speech and Language (3) Introduction to the physiological, phonological and neurological basis for speech. Emphasis is placed on gaining familiarity with the brain mechanisms and sensory and motor functions that underscore human communication functions and their disorders. (F,S)

498V Clinical Audiology I (3) Audiologic assessment of hearing loss including historical and physical examinations, audiometric tests, and counseling of clients, new and experimental procedures for advanced students in which they will work with the student with the necessary training for establishing and operating a remedial reading center (i.e., initial and continuing assessment schedules, administration and monitoring appropriate educational devices, implementation of remedial reading techniques). Prereq: Special Education 860m. 2.5 GPA. (F)

499V Clinical Audiology II (3) Audiologic assessment of hearing loss including historical and physical examinations, audiometric tests, and counseling of clients, new and experimental procedures for advanced students in which they will work with the student with the necessary training for establishing and operating a remedial reading center (i.e., initial and continuing assessment schedules, administration and monitoring appropriate educational devices, implementation of remedial reading techniques). Prereq: Special Education 860m. 2.5 GPA. (F)

510V Basic Clinical Practicum in Speech and Language (3) This course in practical clinical training follows the course 491M which is intended for the first experience in clinical practice. It is designed to give graduate students who need more practical clinical training an opportunity to get this experience before being placed in a setting away from the
Speech and Journalism

420/820M Theories of Mass Communications

423/823M Public Relations

450/850M Introduction to Public Opinion

464/864M-890M Seminar in Mass Communications

Speech

401-402/811M-820M Advanced Projects in Speech

411/811M Development of Rhetorical Theory and Practice

412/812M Studies in American Public Address

413/813M-823M Special Topics in Speech and Presentation

415/815M-825M Critical Study of Speech and Presentation

420/820M Theories of Mass Communications

423/823M Public Relations

450/850M Introduction to Public Opinion

464/864M-890M Seminar in Mass Communications

Speech

401-402/811M-820M Advanced Projects in Speech

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420/820M Theories of Mass Communications

423/823M Public Relations

450/850M Introduction to Public Opinion

464/864M-890M Seminar in Mass Communications

Speech

401-402/811M-820M Advanced Projects in Speech
421/821M Communication Workshop (3)
The purpose of this workshop is to explore and increase awareness of the pragmatics of communication. Prereq: For 421, junior standing, or permission of the instructor.

422/822M Contemporary Trends in Industrial Education for The World of Work (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of the instructor.

423/833M Broadcast Sales Seminar (1) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of the instructor.

427/837M Communication Workshop (3) The purpose of this workshop is to explore and develop new communication processes which can be of service at the individual and community level: to develop skills in the formulation and execution of such processes; and to increase awareness of the pragmatics of communication. Prereq: For 437, junior standing, Speech 230 or permission of the instructor. For 837m, Speech 230 or permission of instructor.

450/850M General Semantics: A System of Inquiry in Developmental-Environmental Communication (3) An introductory, student participation course designed to sustain and advance individualization and humanization: Developing awareness, self-actualization and empathic orientations in various changing environments — by means of linguistic and diagrammatic devices in both interpersonal 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 word sounds. Prereq: For 452, senior standing or permission of the instructor. For 852m, permission of the instructor. (Same as Psychology 452/852m)

453/853M Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural and subcultural misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. Prereq: Junior standing or permission of instructor. (Same as Sociology 453 and 853m)

462/862M Directing Forensics (3) To provide students planning to teach speech in high school or college with the necessary background and skill in directing and judging forensics. Prereq: Junior standing and Speech 112 or permission.

481V 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.

481V Seminar in Modern Public Address (3) (3) An examination of the source, message, channel, and receiver variables of modern public address. May be repeated. Prereq: Graduate standing and permission.

481V College Debate Workshop (5) (3) A comprehensive analysis of current and historical intercollegiate debate propositions. Also stresses methods of coaching debate and debate tournament management at the college level. Students taking this course may not receive credit for Speech 862m, directing forensics, toward a degree at UNO. Prereq: Graduate standing and permission.

483V Seminar in Broadcast Programming (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.

485V Seminar in Communication Theory (3) Analysis of current theoretical approaches to the study of communication, with emphasis on theoretical models, and their application to various professional interests. Prereq: Basic statistics, or by permission of instructor. (Same as Psychology 485V)

487V Seminar in Electronic Media and the United States, from its antecedents to the present. Prereq: Speech 230, Journalism 101, or Political Science 130.

488 V History of Broadcasting in The United States, from its antecedents to the present. Prereq: For 437, junior standing, or permission of the instructor.

489 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 489)

490 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 490)

491 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 491)

492 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 492)

493 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 493)

494 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 494)

495 Seminar in Applications of Non-Verbal Communication Theory (3) Theories and research on the development, facilitation and barrier 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.

496 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 496)

497 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 497)

498 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 498)

499 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 499)

500 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 500)

501 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 501)

502 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 502)

503 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 503)

504 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 504)

505 Seminar in Broadcasting (3) A study of the overview of broadcasting economics and sales. Prereq: For 436, 9 hours of broadcasting courses or permission of the instructor. For 836, Speech 230 and permission of instructor. (Same as Sociology 505)

506 Seminar in Small Group Communication (3) A study of the functions of the small group in business and industry; emphasis on the nature of group process, group decision making, and group leadership. Prereq: Junior standing or permission of instructor. (Same as Psychology 506)
FACULTY AND ADMINISTRATION

GRADUATE FACULTY

ROBERT L. ACKERMAN................. Elementary and Early Childhood Education
Ph.D., University of Nebraska-Lincoln, 1966; Professor

PAUL B. ACKERSON............. Secondary/Post-Secondary Education
Ed.D., Oklahoma State University, 1965; Professor

FREDERICK W. ADRIAN........ Secondary/Post-Secondary Education
Ph.D., Ohio State University, 1942; Professor

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Ed.D., Oklahoma State University, 1969; Associate Professor

CLIFFORD ANDERBERG ........... Sociology
Ph.D., University of Wisconsin-Madison, 1953; Professor

ROBERT L. ACKERMAN................. Elementary and Early Childhood Education
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GEORGE W. BARGER ........... Philosophy
Ph.D., University of Missouri-Columbia, 1970; Associate Professor

GEORGE M. BARRY ............... Social Work
Ph.D., University of Missouri-Columbia, 1966; Professor

JOHN K. BRICKELL .......... Educational Foundations
Ph.D., University of Oregon, 1973; Assistant Professor

RICHARD H. BLAKE ............ Counseling and Guidance
Ph.D., University of Illinois-Urbana, 1970; Professor

WILLIAM BLAZIK (GF) .......... Philosophy and Religion
Ph.D., University of Missouri-Columbia, 1970; Associate Professor

THOMAS BRAGG ............... Biology
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JEROME BROEMAN ............ Dramatic Arts
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Ph.D., University of Arizona, 1968; Associate Professor

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M.A., New Mexico Highlands University, 1963; Associate Professor

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JOHN W. BLACKWELL ............ Counseling and Guidance
Ph.D., University of Iowa, 1975; Professor

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D.B.A., University of Colorado-Boulder, 1966; Professor

KIRK E. BERG .......... Health, Physical Education
Ed.D., University of Missouri-Columbia, 1973; Associate Professor

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Ph.D., University of New Mexico, 1972; Assistant Professor

* Sunny Andrews - Social Work
*Sunny Andrews - Social Work

*Ronald Burke - Ph.D. & Ed.D.
Clem C. Kessler (GF) .................. Psychology Ph.D., Case-Western Reserve University, 1967; Associate Professor.

Robert M. G. Mathis (GF) .................. Psychology Ph.D., University of Nebraska-Lincoln, 1942; Associate Professor.

John J. McKennah .................. English Ph.D., Ohio University, 1970; Associate Professor.

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C. Raymond Millimeter .................. Psychology Ph.D., Oklahoma State University, 1968; Associate Professor.

Joyce Minter .................. Management and Organizational Behavior Ed.D., Indiana University, 1967; Professor.

Stephen Montague .................. Mathematics and Computer Science Ph.D., University of Illinois-Urbana, 1967; Assistant Professor.

Woodrow M. Most .................. Foreign Languages and Literature Ph.D., Laval University, 1955; Professor.

William M. Mose .................. Marketing Ph.D., University of Arkansas, 1966; Professor.

Karen E. Naylor ................. Educational Administration and Supervision Ed.D., University of Kansas, 1963; Professor.

John M. Newton (GF) ................. Psychology Ph.D., University of Denver, 1966; Professor.

Donald A. Nielsen .................. Real Estate and Land Use Economics Ph.D., Syracuse University, 1970; Associate Professor.

Carle M. Nordahl .................. Biology Ph.D., University of Iowa, 1965; Assistant Professor.

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RICHARD M. SCHRIEVER (GF) .......... History Ph.D., University of Nebraska-Lincoln, 1964; Assistant Professor.

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ROBERT R. ROGERS .................. Psychology Ph.D., University of Nebraska-Lincoln, 1964; Associate Professor.