1974

Graduate Academic Catalog (1974-1975)

University of Nebraska at Omaha

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GRADUATE STUDIES

University of Nebraska—Lincoln
University of Nebraska Medical Center
University of Nebraska at Omaha

1974-1975
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# THE GRADUATE BULLETIN

## OFFICIAL CALENDAR

### SUMMER SESSIONS 1974

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<th>Event</th>
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<td>May 20-June 7</td>
<td>Spring Intersession.</td>
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<tr>
<td>May 20-July 12</td>
<td>Evening Session.</td>
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<tr>
<td>June 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for Summer Session.</td>
</tr>
<tr>
<td>June 5-6</td>
<td>Final Registration.</td>
</tr>
<tr>
<td>June 10-July 12</td>
<td>Change of Class schedules.</td>
</tr>
<tr>
<td>June 15</td>
<td>First Summer Session.</td>
</tr>
<tr>
<td>June 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Second Semester Session 1973-74.*</td>
</tr>
<tr>
<td>July 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the second Summer Session 1973-74.</td>
</tr>
<tr>
<td>July 4-5</td>
<td>Holiday. University closed.</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day for filing applications for degrees to be conferred August 31, 1974.</td>
</tr>
<tr>
<td>July 15-Aug. 18</td>
<td>Second Summer Session.</td>
</tr>
<tr>
<td>July 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the First Semester 1974-75.*</td>
</tr>
<tr>
<td>August 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1974-75.</td>
</tr>
<tr>
<td>August 9</td>
<td>Status Report for all prospective graduating students due in Registrar's Office by 1200.</td>
</tr>
<tr>
<td>August 17</td>
<td>Summer Commencement.</td>
</tr>
<tr>
<td>August 21</td>
<td>Final grades due in Registrar's Office by 1600.</td>
</tr>
</tbody>
</table>

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 42.

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# UNIVERSITY OF NEBRASKA AT OMAHA

## ACADEMIC CALENDAR 1974-75

### FIRST SEMESTER 1974-75

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>July 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for First Semester 1974-75.*</td>
</tr>
<tr>
<td>July 15-Aug. 31</td>
<td>Orientation.</td>
</tr>
<tr>
<td>Aug. 15</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1974-75.</td>
</tr>
<tr>
<td>Aug. 26</td>
<td>Beginning of academic year.</td>
</tr>
<tr>
<td>Aug. 28-29</td>
<td>Final Registration.</td>
</tr>
<tr>
<td>Aug. 30</td>
<td>Change of class schedules.</td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Labor Day.</td>
</tr>
<tr>
<td>Sept. 3</td>
<td>First Semester begins at 0730 both day and evening classes.</td>
</tr>
<tr>
<td>Sept. 6</td>
<td>Last day up to 1600 for change of class schedules. (Adding a class to a schedule, changing a class from &quot;audit&quot; to a grade enrollment.)</td>
</tr>
<tr>
<td>Oct. 11</td>
<td>Last day for filing applications for degrees to be conferred in December.</td>
</tr>
<tr>
<td>Oct. 12</td>
<td>Homecoming football game.</td>
</tr>
<tr>
<td>Oct. 25</td>
<td>Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.</td>
</tr>
<tr>
<td>Oct. 26</td>
<td>Parents' Day.</td>
</tr>
<tr>
<td>Nov. 22</td>
<td>Last day a class may be dropped in order to receive a &quot;W&quot;. Last day a class may be changed to &quot;audit&quot;.</td>
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<tr>
<td>Nov. 27</td>
<td>Thanksgiving recess begins at 2140, offices closed.</td>
</tr>
<tr>
<td>Dec. 2</td>
<td>Classes resume at 0730.</td>
</tr>
<tr>
<td>Dec. 12</td>
<td>Last day of classes.</td>
</tr>
<tr>
<td>Dec. 13-20</td>
<td>Finals.</td>
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<td>Dec. 21</td>
<td>Commencement.</td>
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<td>Dec. 23</td>
<td>Grades due in Registrar's Office by 1200.</td>
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### SECOND SEMESTER 1974-75

<table>
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<tr>
<th>Date</th>
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<td>Holiday.</td>
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<tr>
<td>Jan. 9</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the Second Semester 1974-75.</td>
</tr>
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*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 42.*
Jan. 15-16  Final Registration.
Jan. 17-24  Change of class schedules.
Jan. 20  Second Semester begins at 0730 both day and evening classes.
Jan. 24  Last day up to 1600 for a change of class schedules.
          (Adding a class to a schedule, changing a class from
"audit" to a grade enrollment.)
March 14  Due: Mid term (8th week) report of grades under C
for all undergraduates.
March 14  Last day for filing applications for degrees to be
conferred in May.
March 22  Spring vacation begins at 1200.
March 24-25  Holiday. Offices closed.
March 31  Classes resume at 0730.
April 4  Last day a class may be dropped in order to receive
a "W". Last day a class may be changed to "audit".
April 6  Honors Day at 1430.
          Last day for submitting credentials for admission to
Graduate Studies for the Evening Summer Session
1974-75.
May 1  Status report for all prospective graduating students
due in Registrar's Office at 1200.
May 8  Last day of classes.
May 9-16  Finals.
May 16  Last day for filing credentials for admission to
Graduate Studies for the First Summer Session 1974-75.
May 17  Commencement.
May 20  Grades due in Registrar's Office by 1200.
May 24  Alumni Achievement Day.
May 27  Memorial Day. University closed.

SUMMER SESSION 1975

May 19-July 11  Evening Session
June 2  Last day for submitting credentials for admission to
an undergraduate college for first Summer Session.
June 4-5  Final Registration.
June 6-10  Change of class schedules.
June 9-July 11  First Summer Session.
June 16  Last day for submitting credentials for admission to
Graduate Studies for the Second Summer Session 1975.

*For separate deadline dates for submitting admissions credentials for admission
into the Counseling and Guidance Department, see page 42.
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| * Ph.D. in the specialties of industrial psychology and developmental psychobiology offered in conjunction with the Psychology Department, UN-L. Ph.D. in specialties of experimental child and school psychology offered in conjunction with the Educational Psychology and Measurements Department, UN-L.

GRADUATE STUDIES AT UNO

Elton S. Carter, Dean for Graduate Studies

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 Graduate Masters 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.

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

The Graduate College at the University of Omaha* was established to provide an opportunity for advanced study and independent investigation in a limited number of fields of learning for qualified students:

1. To work toward these degrees: Master of Arts, Master of Science, Master of Business Administration, Master of Public Administration, Master of Social Work, 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 these or special projects. Thus the Graduate Faculty at UNO promotes the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society.

ACCREDITED STANDING

The University of Nebraska at Omaha is fully accredited by the North Central Association of College and Secondary Schools, 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 University Women, the American Association of University Women, the Council of Graduate Schools in the United States, the Midwest Conference on Graduate Study and Research, the Asso-

*Now the University of Nebraska at Omaha
carnation of University Evening Colleges, the Adult Education Association of the United States, Association of Governing Boards, and the American Council on Education. Its courses are accepted, for purposes of teacher certification, by the Nebraska State Department of Public Instruction.

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

DEGREE PROGRAMS

The Master's degree or the Specialist in Education degree is conferred by the Board of Regents upon recommendation of the Graduate Faculty, and with the final approval of the faculty of the University of Nebraska at Omaha.

Master of Arts or Master of Science Degree

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

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

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

Master of Business Administration Degree

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

Master of Public Administration Degree

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

Master of Social Work

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

Specialist in Education Degree

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

UNIVERSITY REGULATIONS

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

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

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

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

PROCEDURES AND REGULATIONS

Admission and Transcripts

The student is advised to familiarize himself with the academic regulations of the University and Graduate Studies and the student is expected to assume full responsibility for knowing the particular requirements of his own academic program. The student is responsible for complying with all regulations of the University, Graduate Studies, and the departments of instruction, and for meeting all requirements for his degree. The student should consult with his adviser whenever he has any question concerning the requirements for his degree.

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

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

New students should correspond with, or go directly to, the Director of Admissions in order to apply for admission. Each new student will be required to file with the Director of Admissions:

1. An application for graduate study at the University of Nebraska at Omaha.
2. Two (2) official transcripts of all undergraduate (and graduate, if any) college work previously taken. Transcripts and all other materials submitted in support of an application become the permanent property of the University and will not be returned.
3. Scores on the ATGSB which should accompany the application for admission to the Master of Business Administration program.

NOTE: For consideration for the Fall, Spring, and Even Summer, First Summer or Second Summer term, above credentials must be on file by July 14, December 14, April 14, May 9 or June 14 respectively. Those wanting to be considered for admission to the program in counseling and guidance should see page 42 for separate deadline dates.

Scores of the Graduate Record Examination, Miller Analogies or Admission Test for Graduate Study in Business must be filed in the Graduate Office.

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 Bulletin 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 the Graduate Studies. This fee is not refundable.

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

All testing at UNO in the two 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, Adm. 203.

Graduate Record Examination
Graduate students are required to take 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. The examination is not used to exclude admission at the Masters level.

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

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

(Both General Aptitude and Advanced Area Sections are Required)

<table>
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<tr>
<th>Registration Deadlines</th>
<th>Testing Dates</th>
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<tr>
<td>March 27, 1974</td>
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<td>May 15, 1974</td>
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The Counseling and Guidance Department requires those wishing to pursue a degree program in counseling to take admissions tests in addition to the Graduate Record Examination (see page 41).

Admission Test for Graduate Study in Business
Applicants for admission to the Master of Business Administration program are required to take the Admission Test for Graduate Study in Business in lieu of the Graduate Record Examination. Scores on the ATGSB should accompany the application for admission to the Master of Business Administration program.

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

CLASSIFICATION OF ADMISSION

Unconditional

Unconditional admission to graduate study may be granted to a student who has a Bachelor's degree from a regionally accredited institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least 15 semester hours of undergraduate work that meet specific requirements of the departments in his graduate major and minor. A student from an institution which is not regionally accredited will be admitted on the same basis as he would be admitted by the state university or reporting institution in that state. In such cases, further work may be required, or suitable examinations, or in some cases the completion of a Bachelor's degree in an accredited institution. In addition to the specified transcript record, appropriate scores of the Graduate Record Examination or the Admission Test for Graduate Study in Business must be supplied to the Dean for Graduate Studies.

Provisional

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

Provisional admission may occasionally be granted to a student who has less than a B average in the undergraduate work in his proposed graduate major and minor, (but in no case less than a C average) upon recommendation of the department head of the major department (and minor of one is involved) and written approval by the Dean for Graduate Studies. 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.

Applicants to graduate study who have been graduated from unaccredited colleges may be admitted provisionally. Unconditional status may be attained upon completion of twelve semester hours of graduate courses with at least a B average.

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

Non Degree

Some students who do not anticipate pursuing a degree program may be admitted to graduate study as non degree students. This classification includes:
1. graduate students taking courses for teacher certification
2. graduate students taking courses for professional growth
3. graduate students taking courses for cultural advancement
4. graduate students taking courses for transfer to another institution.

Credentials for admission include a completed application blank and two undergraduate transcripts. Credit hours accumulated in this category could be counted toward a degree only if (a) the transition from non-degree status is accomplished no later than the first opportunity to file candidacy for degree, and (b) the petition for change is accompanied by a departmental recommendation that the specified credit hours count toward the degree. For those desiring to change prior to completion of nine credit hours, the Request to Change Graduate Degree form should be used: for those having completed nine hours the Application for Admission to Candidacy form should be used.

Acceptance of Senior Credits: Seniors in this University who have obtained in advance the approval of the Dean for Graduate Studies may receive up to twelve hours credit for graduate courses taken in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the twelve month period prior to receipt of the baccalaureate. With permission of the department or departments offering the courses, students may be permitted to enroll in 800-level courses during either semester of their senior year. However, courses taken during the senior year may be carried for credit only if approved in advance by the Dean for Graduate Studies.

Seniors in this University needing not more than nine hours of undergraduate credit to complete the bachelor's degree and wishing to register for graduate credit may be granted provisional admission to graduate study subject to receiving their baccalaureates within the twelve-month period immediately following such registration. They must file application for admission to graduate study and, if admitted, will register on graduate study registration forms. Courses once taken prior to receipt of the baccalaureate may not be accepted for transfer to other institutions as graduate work.

Admission to Teacher Education Programs

Students who plan to work for the Master's degree with a major in one of the fields of education must hold a valid teaching certificate in the field in which he intends to pursue graduate study or be eligible for such a certificate at the undergraduate level before entering the program. For certification requirements, communicate with the Dean's Office in the College of Education.

REGISTRATION PROCEDURE

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

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

CERTIFICATION OR PROFESSIONAL GROWTH

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

ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

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

It is the student's responsibility to make application for candidacy for the degree as soon as he can qualify for admission to candidacy. The qualifications are: (1) the scores on the Graduate Record Examination (or the Admission Test for Graduate Study in Business, if applicable) 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." Each incomplete must be replaced by a grade before the student's qualification for admission to candidacy for the degree can be determined.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Credits for courses which have been included to satisfy the requirements for one master's degree cannot be included to satisfy the requirements for any other additional master's degree unless (1) petitioned by the student, (2) recommended by the Graduate Program Committee responsible for the additional degree, and (3) approved by the Graduate Council.

Application forms should be filled out by the student—in consultation with his major and minor advisers—as soon as the student can qualify for admission to candidacy. Both the major and minor programs should be carefully and completely planned at this time and the application should be signed by both the major and minor advisers.

The application form and the plan of study should be filed with the major adviser who then secures the necessary signatures. The Graduate Office, after all signatures are secured, forwards copies to the major adviser, the minor adviser and the student.

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

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

APPLICATION FOR THE DEGREE

The candidate for the degree must file an application for degree in the Registrar's Office in the semester 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 not writing a thesis, the examination is a written one. For those candidates writing a thesis, the final comprehensive examination may be either written or oral at the option of the department concerned. If written, it must be arranged at the convenience of the major adviser. If the comprehensive is to be oral, it should be arranged at the time of the oral examination over the thesis, at which time one-half of the examination may be devoted to the courses taken by the candidate and one-half to the thesis.
For the degree Master of Business Administration, the final comprehensive examination will be administered near the end of the program of study.

If the course work has been of very high quality the minor adviser may suggest to the student's committee that the candidate be excused from the comprehensive examination covering the minor field. This does not prejudice the privilege of the minor professor giving a comprehensive, if he so desires. The minor comprehensive is given at a date arranged at the convenience of both the student and the minor adviser but falling within the limits established for all comprehensive examinations.

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

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

THESIS

Students electing to pursue the Option I degree program described on page 10 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 initiated at least eight months before the commencement in which the student plans to receive his degree.

Three typewritten copies of the thesis (two copies for the University Library and the student's personal copy, plus an additional copy if requested by the department), are required. The original must be a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 18-pound weight. Except for the original, the required number of additional copies may be reproduced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairman of the thesis committee. Either pica or elite type may be used in typing. It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate Office. The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in 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 conferral of the degree.

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 thesis manual. The Graduate Faculty has approved an official manual for each department and the student will be advised by his major adviser of the standard form to be used.

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

ORAL EXAMINATION ON THESIS

The composition of a committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean for Graduate Studies for his approval and appointment. This committee shall consist of members from the major department and at least one graduate faculty member from another department of the University. If the thesis examination is to be combined with the oral comprehensive (noted above), one-half the time may be devoted to the thesis and one-half to the graduate courses taken by the candidate.

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.

REQUIRED PROCEDURE FOR GRADUATE STUDENTS

1. File two official transcripts of undergraduate credits (and graduate, if any), an application for admission form (and the ATGSB scores if applicable) with the Director of Admissions. You will be notified by mail of your admission to graduate study.
2. Arrange to take the Graduate Record Examination 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 chairman 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 (traffic, library, etc.), and satisfy any other obligation you might have to the University at least twelve working days before conferral of the degree.
10. If you are writing a thesis, make arrangements with your department for the oral examination to be given with ample time to have the corrected and approved thesis deposited in the Graduate Office at least twelve working days prior to conferral of the degree.
11. Order the cap and gown from the Book Store.

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 each of two courses in either the major or minor area WILL REQUIRE ACTION ON THE PART OF THE COGNIZANT GRADUATE PROGRAM COMMITTEE before the student is allowed to count further work toward the degree. A grade of "C" in each of three courses will 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 or his advisor as the spokesman for the committee, in order to take course work as a non-degree student and he may NOT be a candidate for the degree unless reinstated by the Graduate Council when recommended by the Dean for Graduate Studies.

The above quality of work standards also apply to non-degree students. A student, upon consent of his advisor, may repeat a course in which he has previously received the grade of C, D, or F. Both grades will appear on the transcript but only the second grade will be counted in determining the grade point average.

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

Each instructor must judge each situation. The instructor must also indicate by a departmental record, with a copy to the student, how the Incomplete is to be removed, and if he is at the University at the time of the removal, supervise the makeup work and report the permanent grade.

In the event that the instructor is not available at the time of the student's application for removal of an Incomplete, the department chairman shall supervise the removal of the Incomplete and turn in the permanent grade for the student.

A student to receive credit in a course for which he has received a grade "I" must re-register and take the course again unless he removes the Incomplete within two years from the date he received the "I". In the meantime the "I" is not computed in the student's GPA.

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

POLICY ON CLASS ATTENDANCE

Classes are conducted on the premise that regular attendance is desirable. The individual instructor has responsibility for managing student attendance and for communicating at the beginning of each semester those class attendance policies which prevail in that classroom.
RESIDENCE REQUIREMENTS
A minimum of 30 semester credit hours in residence (36 in case of the Master of Science in Education and the Master of Business Administration degrees), is required for granting of the Master's degree, except as provision is made for the transfer of credit. No credit will be allowed for correspondence work.

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. Normally the total hours of transfer credit may not exceed the number stated.

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 the equivalent of "B" or higher. No transfer of credit can be made until the student has been admitted to candidacy for the degree. All work accepted for transfer of credit must have been taken within the six-year period allowed for the Master's degree. Petitions for transfer of credit are submitted by the student to his major adviser who forwards the petition with his recommendation to the Dean of Graduate Studies for his approval.

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

Students who wish to take graduate courses at the University of Nebraska at Lincoln or at the Medical Center for transfer to UNO should secure the Intercampus Graduate Student Exchange form from the Graduate Office. Transfer of graduate credit from all schools in the University system will be accepted to the extent approved by the Dean for Graduate Studies. Time spent in the military service will be accepted to the extent approved by the Dean for Graduate Studies. The work required for a master's degree must be completed within six consecutive calendar years. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate Council for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been recorded and is obsolete. A report of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Dean for Graduate Studies. Time spent in the military service of the United States may be excepted in the application of this rule.

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

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves of the delayed billing option must familiarize themselves with the due dates, as publicized. Note! Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Students in need of financial aid must consult the Student Financial Aids Officer in Administration Room 183. Application for financial aid should be made at the earliest possible time.

Register 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 assessing tuition is determined by the status of the applicant at the time the application for admission is filed.
Resident of Nebraska $10.00
Non-resident $25.00

Matriculation Fee (Graduate College):
Payable upon first-time enrollment in the Graduate College $10.00

Tuition:
Per Semester Credit Hour, Undergraduate or Graduate
Resident of Nebraska (see residency statute) $18.00
Non-Resident $48.25

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

Orientation Fee (Undergraduate):
Payable upon enrollment by all new and transfer undergraduate students $ 7.00
Special Instructional Fees:
Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the Head of the Music Department for any full-time students who are music majors or minors.)

One semester credit hour .................................................. $55.00
Two semester credit hours ............................................... $75.00
Three semester credit hours .............................................. $85.00
Non-credit, 6 lessons ......................................................... $45.00
Non-credit, 18 lessons ....................................................... $65.00
TV Classroom (3 credit hours and materials) ......................... $75.00
Conference, non-credit, and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

University Program and Facilities Fee (UPFF)
Full-time students (12 credit hours or more) per semester .......... $30.00
Part-time students (less than 12 hours) per semester ................ $15.00
Summer Sessions (per session) ........................................... $15.00
Assessed to every student each semester, except that summer session students who complete registration for both sessions at the initial registration period will be assessed the fee only once.

The UPFF receipts are divided into two separate funds. One portion is designated for student activities and is distributed according to an annual budget developed by the Student Activity Budget Commission. An Allocations Board comprised of students, faculty and staff recommends disbursements of this fund to the University Chancellor. After he approves their recommendations he submits them to the President of the University and the Board of Regents for review and adoption.

The second portion of the UPFF is designated for services, staff salaries, maintenance of facilities and related expense, and those additional items designated by the Chancellor. This portion is budgeted separately with emphasis upon continuing support. The Chancellor recommends to the President and the Board of Regents his plans for this portion.

The full-time fee of $30.00 also entitles the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying the full-time fee of $30.00.

Special Service Fees:
Cooperative Education (if taken for non-credit) ....................... $50.00
Continuing Engineering Studies—Professional Studies—
Development Degree Program
Initial application ................................................................ $25.00
Attainment of 300 credit units (additional) ................................ $28.00
Attainment of 500 credit units (additional) ................................ $28.00
Attainment of 900 credit units (additional) ................................ $28.00
Attainment of 1200 credit units (additional) .............................. $28.00
Deferred Tuition Payments
(if approved by Student Financial Aid Office) ......................... $5.00
Transcripts of Academic Record—per copy ............................ $1.00
Thesis Binding—per copy ..................................................... $6.00
Cap and Gown Rental (to be arranged through the Bookstore) .... $10.00
Graduation Fee ..................................................................... $3.00
Degree in Absentia (payable in addition to graduation fee) ....... $2.00

UNIVERSITY OF NEBRASKA AT OMAHA

Bad Check—per check ......................................................... $3.00
Dishonored checks given in payment for tuition and fees must be redeemed in cash prior to the date for late registration, otherwise the late registration fee will be assessed in addition to the bad check fee.

Teacher Placement Fees:
Registration Fee .................................................................. $10.00
This fee is required before any further service is given. This fee prepares the placement file for the new registrant and updates the file for registrant making the file readily available for office use or mailing to prospective employers. The registration fee is required of all graduates preparing for teacher certification.

Vacancy Bulletin Fee & Postage Cost
3rd class mailing ................................................................... $5.00
1st class mailing .................................................................... $12.50
The vacancy bulletin will not be mailed unless the registration fee is paid.

Credential Fee
Preparation of credentials ..................................................... $10.00
No credentials will be sent unless the registration fee and the credential fee has been paid.

Late Fees and Penalties:
Late Registration (day or evening classes) ............................ $5.00
Late Examination (each course) ............................................. $6.00
Late Payment of Tuition Billing ............................................. $10.00
Reinstatement of Cancelled Registration .............................. $10.00
Replacement of ID/Activity Card .......................................... $1.00
Change of Class Schedule (per change) ............................... $5.00

Deposits:
Key—(per key with authorization)—refundable ....................... $1.00
Pre-registration ................................................................. $50.00
The pre-registration deposit allows the student to register in advance for the next term, and will apply toward tuition for completed registration. The deposit for a term will be refunded in full provided application for refund is processed before the first day of the published date for on-campus registration for that term.

ROTC Uniform Deposit—Refundable .................................... $15.00

Testing Fees:
Credit by examination—per course ...................................... $25.00
American College Testing (ACT)—on scheduled dates .......... $6.00
ACT additional charge, if specially scheduled ...................... $4.00
College Level Examination Program (CLEP)—at national rates $25.00
There will be no additional charge to record any academic credit granted from the results of the CLEP examinations. Anyone interested in testing for credit by examination should contact the Counseling and Testing Office, Room 213, Administration Building.

Counseling and Testing:
Generally, no fees are charged to UNO students for this service.
Refund Schedule:
Refunds are computed from the date application is received by the Registrar, NOT from date of withdrawal from classes. Refund slips issued by the Registrar and given to students are void and not redeemable, unless presented to the Cashier (Room Adm. 150) within 30 days after date of issue. See policy entitled “Withdrawal from Classes”. Students paying tuition and fees on a deferred payment basis or under any other loan granted by the University, who withdraw before the account is paid in full are not relieved from payment of the balance due. Refunds will first be applied to unpaid balances, and any remaining balance must be paid. Refunds for withdrawals are figured from the official beginning of the semester as stated in the University’s academic calendar, not from the beginning of students’ individual class schedules.

Regular Semester
Withdrawal before first official day of the semester .................... 100%
Withdrawal before 2 weeks elapsed .................... 75%
Withdrawal before 3 weeks elapsed .................... 50%
Withdrawal before 5 weeks elapsed .................... 20%
Withdrawal after 5 weeks elapsed .................... 0%

Summer Sessions (5 Week Sessions)
Withdrawal before first official day of each session .................... 100%
Withdrawal during first three days .................... 75%
Withdrawal during remainder of the first week .................... 50%
Withdrawal during second week .................... 20%
Withdrawal after second week .................... 0%

Credit Courses (8 Week Session)
Evening, Summer of Special Contract
Withdrawal before first official day of each session .................... 100%
Withdrawal before first week elapsed .................... 75%
Withdrawal before 2 weeks elapsed .................... 50%
Withdrawal before 3 weeks elapsed .................... 20%
Withdrawal after 3 weeks elapsed .................... 0%

Non-Credit and Special Courses (10 Weeks or More)
Withdrawal before classes start .................... 100%
Withdrawal before first week elapsed .................... 75%
Withdrawal before 2 weeks elapsed .................... 50%
Withdrawal before 3 weeks elapsed .................... 20%
Withdrawal after 3 weeks elapsed .................... 0%

(Less than 10 Weeks)
Withdrawal before classes start .................... 100%
Withdrawal before second class .................... 50%
Withdrawal after second class .................... 0%

Resident Students
A student’s right to classification as a resident for purpose of registration in a state educational institution must be determined under the provisions of Nebraska Revised Statutes of 1943, Sec. 95-305 (T.S. Supp. 1965). (See General Catalog.) Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar’s Office.

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 experiences at the graduate level in conjunction with the degree program. The stipends range upward from $2550. 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 work load to the Dean for Graduate Studies 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.

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

TUITION WAIVERS FOR GRADUATE STUDENTS
Several tuition waivers are 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.

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 Phi Delta Gamma Scholarship and the Nelle Boyer-Phi Delta Gamma Scholarship.

Applications and details concerning these scholarships may be obtained from the Dean for Graduate Studies, Room 201, 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 183, Administration Building.

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

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

Beta Gamma Sigma is a national honorary society for students in Business Administration. Membership is by invitation.
Psi Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.

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

ADMINISTRATION FOR GRADUATE STUDIES

GRADUATE FACULTY

The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses which may be taken for graduate credit. The Dean for Graduate Studies 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 and administration is available in the Graduate Office.

GRADUATE COUNCIL

The Graduate Council of the Graduate Faculty is composed of eleven faculty and three graduate student members. This group considers graduate policies, procedures and academic offerings and makes its recommendations to the Graduate Faculty. Information about the structure of the Council, functions of the committees, and names of the Graduate Faculty members who are currently serving on the Council is available in the Graduate Office.

FACULTY SENATE RESEARCH COMMITTEE

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

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

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

CENTER FOR URBAN EDUCATION

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

COURSE DESCRIPTIONS

Key to Symbols:

I—offered in the first semester of each year
II—offered in the second semester of each year
S—offered in the summer session

Courses numbered 800J, 800U and 800 are open to graduate students only. Some courses numbered 800M are open to both seniors and graduates; the same is true of a selected few 800J numbered courses. It is expected as a rule that graduate students enrolled in those courses numbered 800J-800M will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.
ART (ART)

Graduate Faculty Members:
Professors John V. Blackwell, Peter W. Hill (Chairman);
Associate Professors Sidney Buchanan, Thomas Majeski.
Assistant Professor Henry Serenco

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

Course Descriptions

831M Advanced Sculpture
PREREQ: Art 331 and permission
Advanced work in area of student's choice, with facilities for oxy-acetylene, arc welding, and general metal working.
3 hours

841M Advanced Painting
PREREQ: Art 341 and permission
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.
3 hours

851M Advanced Printmaking
PREREQ: Art 351 and permission
Intaglio or lithography processes stressing technical proficiency and personal development.
3 hours

861M Advanced Ceramics
PREREQ: Art 361 and permission
Advanced problems in the techniques of ceramics.
3 hours

891V Graduate Sculpture
PREREQ: Art 391 and permission
Advanced work in a particular sculpture media.
3 hours

894V Graduate Painting
PREREQ: Permission and 12 credit hours of painting
More complex problems in the oil medium and related material.
3 hours

BIOLOGY (BIOL)

Graduate Faculty Members:
Professors Merle E. Brooks, Karl H. D. Busch, Steele R. Lunt, Paul V. Prior (Chairman);
Associate Professors William A. deGraw, Charles O. Ingham, Roger S. Sharpe, David M. Sutherland
Assistant Professors Carl E. Nordahl, Richard H. Stasink, A. Thomas Weber

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, botany, ecology, endocrinology, entomology, fresh water biology, histology, ichthyology, invertebrate zoology, mycology, nematology, parasitology, plant anatomy, plant systematic, plant physiology, protozoology, vertebrate systematic, 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.

Course Descriptions

833J Microtechnique
PREREQ: Two years of biological sciences
A course in the techniques of fixation, dehydration, staining, cleaning and mounting biological material in the manufacture of microscope slides.
3 hours

834J Ecology
PREREQ: Biology 145, 175
The study of the behavior of whole organisms and groups of organisms in relation to their total living and non-living environment.
4 hours

843J Morphology of Lower Plants
PREREQ: Biology 145
A lecture and laboratory course which covers the ecology, morphology, and evolutionary trends of algae, fungi, and bryophytes.
3 hours

853J Flora of the Great Plains
PREREQ: Biology 145
The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants, found in the Great Plains.
3 hours

863J Plant Anatomy
PREREQ: Biology 145
A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants.
3 hours

873J Fauna of the Great Plains
PREREQ: Biology 145, 170
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.
3 hours

8743 Histology
PREREQ: Biology 175, and a course in vertebrate anatomy, or permission of instructor
Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance.
873M Embryology
PREREQ: Biology 175 and a course in vertebrate anatomy
An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gametogenesis through organogenesis as revealed by a study of selected vertebrate embryos and fetuses.

871M Cellular Biology
PREREQ: Biology 145 and 175, organic chemistry, or permission of the instructor
This course is a comprehensive study of the structure and function of plant and animal cells.

872M Limnology
PREREQ: Biology 145, 175, and organic chemistry
A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a fresh water environment.

873M Organic Evolution
PREREQ: Biology 214, Lecture and discussion only
A study of organic evolution in terms of evidences which support the theory and the mechanisms involved in the process.

874M Animal Behavior (same as Psychology 827M)
PREREQ: Biology 175 and Psychology 101 or permission, Lecture only
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.

875M Bryology
PREREQ: Biology 344 or permission of the instructor
A course in the identification, classification, ecology, and distribution of bryophytes.

876M Ichthyology
PREREQ: Biology 175
A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American freshwater fishes.

877M Mycology
PREREQ: Biology 145
A lecture and laboratory course in the collection, cultivation, identification, and life cycle of fungi.

878M Plant Physiology
PREREQ: Biology 145, organic chemistry, or permission of the instructor
A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism, and mineral nutrition.

879M Taxonomy of Vascular Plants
PREREQ: Biology 145
Classification of vascular plants with particular emphasis on the evolution and adaptations of selected families with discussion of experimental techniques used by the taxonomist.

880M General Botany
PREREQ: Biology 145, organic chemistry, or permission
The nature of microorganisms, their life processes, their biologic and economic significance.

881M Experimental Endocrinology
PREREQ: A course in endocrinology or concurrent registration in Biology 873M, or permission of instructor
Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience.

882M Endocrinology
PREREQ: Organic Chemistry, Vertebrate Anatomy, and Physiology or permission of the instructor
A survey of endocrine physiology stressing the regulative and integrative roles of hormones, the control of hormone secretion, and mechanisms of hormone action.

874M Animal Physiology
PREREQ: Biology 175, vertebrate anatomy, organic chemistry, and physical sciences, or permission of instructor
A comprehensive study of animal function emphasizing mechanisms of regulation and control.

875M Vertebrate Zoology
PREREQ: Biology 175
A study of the general biology of the subphylum Vertebrata including the morphology, anatomy, physiology, and ecology of vertebrate representatives.

876M Herpetology
PREREQ: Biology 175
The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification with emphasis on North American groups.

878M Invertebrate Zoology
PREREQ: Biology 175
A field-oriented course emphasizing the taxonomy and natural history of the invertebrate animals.

879M Parasitology
PREREQ: Biology 175
A study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution.

880M Ornithology
PREREQ: Biology 175
An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification, and identification with emphasis on North American groups.

881V Seminar in Biology
PREREQ: Biology 175
A study of current research in any of the divisions of biology. Graduate students in biology must complete this course twice for credit.

882V Problems in Biology
PREREQ: Sufficient work in biology and the ancillary sciences necessary to pursue adequately the area of investigation involved
Research investigation in various areas of biology.

883V Current Topics in Biology
PREREQ: Grad. standing in Biol. or Biol 864M, or permission
Survey of recent literature in one or more of the following areas of Botany: Physiology, Morphology, Anatomy, Ecology, Taxonomy, Economic Botany, Genetics, Phylogeny.

884V Current Topics in Microbiology
PREREQ: Grad. standing in Biol. or Biol 864M, or permission
Survey of recent literature in one or more of the following areas of Microbiology: Morphology and Development, Physiology, Genetics, Taxonomy, Ecology, Medical Microbiology and Immunology, Virology, and Food and Industrial Microbiology.

885V Current Topics in Zoology
PREREQ: Graduate standing and permission
Survey of the recent literature in one or more of the following areas of Zoology: Taxonomy, Morphology-Anatomy, Ecology, Physiology, Behavior, Zoogeography, Genetics.

886V Environmental Biology
PREREQ: Graduate standing in Biology and/or permission of instructor
A study of the recent advancements in environmental biology, concentrating on the areas of population dynamics, community interaction and ecosystem theory. Readings, discussions, laboratory, and a written report.
Special graduate courses are available to students to remove deficiencies in the foundation core. These courses include: Econ 800V, BA 811J, BA 812J, BA 813J, BA 814J, and BA 816J. The foundation courses cannot be used to meet the 36 semester hours required for the M.B.A. degree. The quality of work in the foundation core should be the same as for degree requirements. A “B” average must be maintained, a final grade of “C” in two courses will require action by the MBA committee before the student is permitted to re-enroll, and a grade of “C” in a third course or a grade of “D” or below in any course will result in automatic dismissal from the MBA program.

The Admission Test for Graduate Study in Business is required and scores should accompany application for admission.

To be admitted to the MBA program, applicants should have a minimum undergraduate grade point average of 2.5 and a minimum of 470 on the Admission Test for Graduate Study in Business.

Degree Requirements: The degree requires a minimum of 36 semester hours for completion. Of these, 27 must be in the following required courses:

- BA 800V Quantitative Analysis - 3 hours
- BA 801V Business and Society - 3 hours
- BA 820V Accounting for Management Control - 3 hours
- BA 821V Accounting Theory - 3 hours
- BA 822V The Environment of Management - 3 hours
- BA 823V Human Behavior in Organizations - 3 hours
- BA 840V Marketing Principles - 3 hours
- BA 841V Financial Management - 3 hours
- Econ 821V Micro-Economic Theory - 3 hours
- Econ 823V Macro-Economic Theory - 3 hours
- BA 845V Seminar in Information Systems - 3 hours
- BA 846V Seminar in Marketing - 3 hours
- BA 851V Security Analysis - 3 hours
- BA 852V Seminar in Investment Management - 3 hours
- BA 853V Seminar in Finance - 3 hours
- BA 855V Seminar in Financial Institutions - 3 hours
- BA 857V Independent Research - 3 hours

Emphasis in specific areas can be achieved by selection of nine hours of approved electives. Three hours of which may be outside of business administration. Business Administration elective courses include the following:

- BA 820V Research Methods in Business - 3 hours
- BA 821V Business Information Systems - 3 hours
- BA 825V Business Conditions Analysis - 3 hours
- BA 825V Seminar in Accounting - 3 hours
- BA 835V Seminar in Management - 3 hours
- BA 841V Financial Management - 3 hours
- BA 845V Seminar in Marketing - 3 hours
- BA 851V Security Analysis - 3 hours
- BA 852V Seminar in Investment Management - 3 hours
- BA 853V Seminar in Finance - 3 hours
- BA 855V Seminar in Financial Institutions - 3 hours
- BA 857V Independent Research - 3 hours

A thesis is not required for the degree. A written comprehensive final examination is required near the end of the program.

Course Descriptions

- BA 81J Survey of Accounting - 3 hours
  This course is for the graduate student who has not taken accounting principles at the undergraduate level. The uses of accounting for purposes of control and decisions by managers, shareholders, creditors, and others.

- BA 812J The Legal Environment of Business - 3 hours
  Examination of the business institution as it exists within a legal system shaped by societal elements.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>813J</td>
<td>Business Finance</td>
<td>3</td>
<td>ACC 201 and ACC 202, or BA 811J and Econ. 201 and Econ. 202, or Econ. 800J</td>
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<td>814J</td>
<td>Survey of Management</td>
<td>3</td>
<td>Econ 201 and 202, or Econ. 800J</td>
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<td>815J</td>
<td>Marketing Foundations</td>
<td>3</td>
<td>Econ 201 and 202, or Econ. 800J</td>
</tr>
<tr>
<td>816J</td>
<td>Business Information Systems</td>
<td>3</td>
<td>Business Conditions Analysis</td>
</tr>
<tr>
<td>820V</td>
<td>Accounting for Management Control</td>
<td>3</td>
<td>ACC 201 and ACC 202, or BA 811J and Econ. 201 and Econ. 202, or Econ. 800J</td>
</tr>
<tr>
<td>821V</td>
<td>Business and Society</td>
<td>3</td>
<td>BL 323, BL 446, or BA 812J</td>
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<tr>
<td>822V</td>
<td>Research Methods in Business</td>
<td>3</td>
<td>BA 816J or equivalent</td>
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<tr>
<td>823V</td>
<td>Business Information Systems</td>
<td>3</td>
<td>CB 131 or Equiv.</td>
</tr>
<tr>
<td>824V</td>
<td>Business Conditions Analysis</td>
<td>3</td>
<td>ACC 201 and ACC 202, or BA 811J</td>
</tr>
<tr>
<td>825V</td>
<td>Accounting for Management Control</td>
<td>3</td>
<td>ACC 201 and ACC 202, or BA 811J</td>
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<tr>
<td>826V</td>
<td>Accounting Theory</td>
<td>3</td>
<td>BA 810V or 12 hours of accounting</td>
</tr>
<tr>
<td>827V</td>
<td>Seminar in Accounting</td>
<td>3</td>
<td>BA 810V or BA 811V</td>
</tr>
<tr>
<td>828V</td>
<td>The Environment of Management</td>
<td>3</td>
<td>MGT 349 or BA 814J</td>
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<tr>
<td>835V</td>
<td>Physical Chemistry</td>
<td>(1) 3</td>
<td>Chemistry 220, 226L, 240, 240L; Physics 212; Math 196</td>
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<td>839V</td>
<td>Independent Research</td>
<td>3</td>
<td>BA 850V</td>
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### CHEMISTRY (CHEM)

Graduate Faculty Members:

- Professors C. Robert Keppel, Walter W. Linstromberg, D. N. Marquardt (Chairman), Paul J. Staseman;
- Associate Professor Roger Hoburg;

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

### Course Descriptions

- 835V Physical Chemistry (1) 3 hours
  - Prerequisites: Chemistry 220, 226L, 240, 240L; Physics 212; Math 196
  - A classical and behavioral study of the organizational environment in which decision-making occurs to accomplish the economic and efficient operation of organized endeavor.
THE GRADUATE BULLETIN

University of Nebraska at Omaha

CIVIL ENGINEERING (CE)

Graduate Faculty Members:
Professors Joseph V. Benak, Richard E. Gibson, James Q. Hossack;
Associate Professors Bart Denney, Lawrence E. Ehlers, William B.
LeMar, M. N. Reddy, Wilbur F. Rogers

Master of Science

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

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

This degree program is scheduled to be replaced by a similar, but broader program to be offered by the graduate faculty of the recently merged departments of Civil Engineering at Omaha and Lincoln. The new program will be described in future issues of this bulletin, and students pursuing graduate studies under its provisions will be able to have the necessary administrative services associated with their studies handled by the graduate office at UNO or UN-L, depending on where they reside.

Applications for admission to the program described below will not be accepted after the end of the current academic year, and degrees for successful completion will be awarded only until the end of the 1978-79 academic year. During the interim period, students who have been admitted to the present UNO program may apply for transfer to the new program. Graduate courses offered in Civil Engineering on either the UNO or UN-L campus will be applicable to both programs.

Foundation Courses: Applicants for admission to the M.S. degree program with a major in Civil Engineering must have completed the following foundation courses with a satisfactory grade:
- Fluid Mechanics
- Structural Analysis
- Advanced Math for Engineers
- Engineering Systems Analysis

A student who is deficient in any of the foundation courses will be required to make up the deficiency with appropriate courses.

Degree Requirements: The degree requires a minimum of 36 semester hours for completion. A minimum of one-half of the required hours must be taken at the 800V level. Nine semester hours may be in a related minor field, such as business administration, mathematics, physics, chemistry, and biology.

A student may elect to submit a thesis for a maximum of six semester hours which is applicable toward the degree requirements. A comprehensive final examination, both written and oral, will be required when the student has completed his course work or is in his final semester.

Course Descriptions

Civil Engineering

603M Open Channel Flow

835JL Physical Chemistry Laboratory

Physical Chemistry Laboratory (I) 1 hour

PREREQ: Chemistry 226, 226L, 240, 240L; Physics 219; Math 196
Chemistry 335L should be taken concurrently with Chemistry 355.

836J Physical Chemistry

A presentation of selected topics from the areas of classical thermodynamics, statistical mechanics and chemical kinetics.

835JL Physical Chemistry Laboratory

Physical Chemistry Laboratory (II) 1 hour

Chemistry 335L should be taken concurrently with Chemistry 355.

840J Instrumental Analysis

Instrumental methods of quantitative analysis. Normally taken concurrently with Chemistry 840J Lab.

840JL Instrumental Analysis Laboratory

Instrumental methods of quantitative analysis. Normally taken concurrently with Chemistry 840J Lab.

823M Advanced Organic Chemistry

An advanced lecture course in modern theories and special topics in organic chemistry.

823M Advanced Organic Chemistry

An advanced lecture course in modern theories and special topics in organic chemistry.

825M Advanced Inorganic Chemistry

Theories of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and recent problems in inorganic chemistry.

511M Advanced Inorganic Preparations

Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques.

965M Biochemistry

Chemistry and biochemistry of protein, carbohydrates and lipids. Enzyme and energy. Biological oxidation. Not open to students with credits in 305 or 390. Chemistry 965M must be taken concurrently with Chemistry 965ML.

955JL Biochemistry Laboratory

Biochemistry Laboratory for Chemistry 955M, Chemistry 955JL and 955ML Lab must be taken concurrently.

966M Biochemistry

Continuation of Chemistry 965M. Chemistry 966M Lab must be taken concurrently with 966M.

966ML Biochemistry Laboratory

Biochemistry laboratory for Chemistry 966M.

969M Chemistry Problems

Permission of instructor for independent student research.

699V Research in Chemistry

Research of the instructor, graduate standing and an undergraduate chemistry major (not less than 32 hours). Provides the student with an opportunity for experience in the solving of an actual research problem in the field of chemistry.
### GRADUATE BULLETIN

**804V Structural Design for Dynamic Loads**
- **PREREQ:** Graduate standing and permission
- **Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques.**
- **3 hours**

**805V Special Engineering Problems**
- **PREREQ:** Graduate standing and permission
- **The theory and application of the cumulative knowledge from undergraduate and graduate course work to special problem of particular interest to the student and in his field of interest. An academic advisor should extend the knowledge and understanding of the student in his field of specialization beyond the limits of his formal course work. The problem will be agreed upon by the faculty member and the student involved. The problem will be at a level to warrant graduate credit.**
- **1-6 hours**

**806V Thin Shell Structures**
- **PREREQ:** Graduate standing and permission
- **General theory of thin shells; analysis and design of hyperbolic paraboloids, folded plates, cylindrical shells, shell walls, and domes.**
- **3 hours**

**807V Foundation Engineering**
- **PREREQ:** Graduate standing and permission
- **Evaluation of subsurface conditions as they affect the behavior, proportions, bearing capacity and settlement analysis; seepage problems; stability of and selection of foundation elements; character of natural soil deposits; slopes and earth-retaining structures.**
- **3-6 hours**

**808V Bridge Design**
- **PREREQ:** CE 140, permission
- **The theory and design of slab, T-beam, box girder, prestressed, welded girder, composite, orthotropic and suspension bridges.**
- **3-9 hours**

**809V Advanced Hydraulics**
- **PREREQ:** Graduate standing and permission
- **Advanced studies in hydraulics including hydrometry, similitude, urban hydrology, geohydrology, hydraulic transients, and loose boundary hydromagnetics.**
- **3 hours**

**810V Advanced Structural Engineering**
- **PREREQ:** Graduate standing and permission
- **Contemporary developments in the analysis and design of space-spanning and space-enclosing structures, including appropriate mathematical and mechanical methods of analysis.**
- **1-12 hours**

**811V Advanced Sanitary Engineering**
- **PREREQ:** Six hours of undergraduate-level courses in Sanitary Engineering
- **Advanced study of biological and chemical processes in sanitary engineering; activated sludge and trickling filter processes, ion exchange and electrolysis; wet and dry combustion; introduction to industrial waste treatment processes; special problems in unit processes of waste treatment.**
- **3-6 hours**

**812V Sedimentation and Erosion**
- **PREREQ:** Graduate standing and permission
- **A study of sediment movement in streams and channels. Transport of sediment on stream beds and by suspension; Evaluation of total sediment load and application to canal design.**
- **3 hours**

**813V River Mechanics**
- **A study in concepts of river flow and river control; concepts in channel form, bed forms, riffles and bars; scour and fill; meanders; stream braiding; and channel stabilization structures.**
- **3 hours**

**995V Civil Engineering Special Projects**
- **PREREQ:** Graduate standing and permission
- **Individual students may select a special semester project in some phase of civil engineering which requires advanced original thinking and the application of advanced analytical and/or experimental techniques in its completion.**
- **1-6 hours**

**999V Graduate Research (Thesis)**
- **PREREQ:** Graduate standing and permission
- **3-6 hours**
University of Nebraska at Omaha

Other Engineering Courses

Graduate Faculty Members:
Professors Harold L. Davis, Cheryl H. Prewett

Two graduate industrial technology courses are offered to fulfill requirements as cognate or selected courses on a plan of study for industrial education teachers.

821M Contemporary Trends in Industrial Education for the World of Construction
PREREQ: Graduate standing
Introduction to a new program development in industrial education, with major emphasis placed on the World of Construction curriculum. Analysis of basic construction operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory.

COUNSELING AND GUIDANCE (COUN)

Graduate Faculty Members:
Professors Richard Blake (Chairman), B. Gale Olson;
Associate Professors Robert Butler, Harl Jarmin, Donald Pfisterer;
Assistant Professors Walter Calinger, Scott Herrington, Ross A. Pilkington

Programs in Counseling and Guidance are arranged on an individual basis. Areas of frequent specialization, however, are Secondary School Counseling*, Elementary School Counseling*, Agency Counseling and Student Personnel Services. For interested students, an emphasis on Counseling with the Urban Disadvantaged may be developed within their program. It is also possible for students interested in Gerontology to develop this as an area of emphasis within their Counseling and Guidance Degree Program.

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

Students are admitted and permitted to continue programs in Counseling and Guidance on the basis of their potential for successful training and professional practice.

Major points where students are evaluated with respect to their suitability for continuation in the program are 1) initial admissions to Graduate Studies and Department, 2) admission to degree candidacy and 3) prior to taking the Counseling Practicum or Internship courses. Successful completion of a Counseling Practicum or Internship is a requirement for graduation.

The Counseling and Guidance Department has admissions requirements and procedures in addition to those applicable to Graduate Studies as a whole, and prospective students are strongly encouraged to contact the Department regarding these admissions requirements and procedures. The different admissions deadlines for Counseling and Guidance.
Master of Arts

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

Master of Science

Specialization in Agency Counseling

I. Foundation Course

FED 801V, Introduction to Research

II. Selected Cognate Courses

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

III. Counseling and Guidance Courses

COUN 800M, Principles of Guidance and Counseling
COUN 820V, Child Assessment in Elementary School Guidance
COUN 821V, Organization and Administration of Guidance Services
COUN 823V, Appraisal of Community Resources
COUN 824V, Counseling Practicum
COUN 825V, Community Involvement for Urban Counselors

Selected additional courses in the department.

Specialization in School Counseling—Secondary Level*

I. Foundation Course

FED 801V, Introduction to Research

II. Selected Cognate Courses

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

III. Counseling and Guidance Courses

COUN 800M, Principles of Guidance and Counseling
COUN 820V, Introduction to Counseling Theories
COUN 821V, Organization and Administration of Guidance Services
COUN 823V, Appraisal of Community Resources
COUN 824V, Counseling Practicum

Selected additional courses in the department.

Specialization in School Counseling—Elementary Level*

I. Foundation Course

FED 801V, Introduction to Research

PSYCH 811V, Advanced Educational Psychology

II. Selected Cognate Courses

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

III. Counseling and Guidance Courses

COUN 800M, Principles of Guidance and Counseling
COUN 820V, Introduction to Counseling Theories
COUN 821V, Child Assessment in Elementary School Guidance
COUN 823V, Counseling Elementary School Children

Practicum or Internship

Selected additional courses in the department.

* Teaching certificate required for institutional endorsement to serve as secondary or elementary school counselors in Nebraska or Iowa.
THE GRADUATE BULLETIN

825V Counseling Practicum 3 hours
PREREQ: Coun 820V, 822V, 823V
The process of establishing a counseling relationship, utilizing different approaches appropriate to client concerns, and developing basic counseling skills.

824V Counseling Practicum 2-4 hours
PREREQ: Coun 825V and permission of department
Counseling experience under the supervision of a Practicum Instructor of the University.

826V Guidence Internship 2-3 hours
PREREQ: Coun 824V and permission of department
Field experience in an approved guidance program under the supervision of a qualified counselor and a guidance professor of the University.

827V Group Techniques in Guidance 2-3 hours
PREREQ: Coun 826M and permission of instructor.
The group process with emphasis on the experiential aspect.

828V Community Involvement for Urban Counselors 3 hours
PREREQ: Coun 826M and permission of instructor
An experiential involvement in the ecology of the Urban Disadvantaged. The student will have extended field experiences in the urban area as well as seminar-type activities.

829V Child Assessment in Elementary School Guidance 3 hours
PREREQ: Coun 828M and Fed 601V
Methods and techniques for identification of the elementary child as a unique individual.

830V Counseling Elementary School Children 3 hours
PREREQ: Coun 829V, 831V
A study of the methods and techniques applicable in counseling young children.

831V Elementary School Counseling Practicum 4 hours
PREREQ: Coun 830V and permission of department
Counseling in the elementary setting under the supervision of the counseling professor of the University.

832V Elementary Counseling Internship 6 hours
PREREQ: Coun 831V and permission of department
Field experience in an elementary counseling program under the supervision of a counseling professor and appropriate in-school personnel.

833V Guidance Services and the Disadvantaged Youth 3 hours
PREREQ: Coun 832V and 834V
A study of the methods and techniques in counseling disadvantaged youth.

834V College Student Personnel Internship 6 hours
PREREQ: Permission of instructor
This course is designed to provide practical work experience under supervision in various areas within student personnel services.

898 Thesis 1-6 hours
PREREQ: Permission independent research project written under the supervision of an advisor.

901U Theories and Studies in Occupational Educational Information 3-3 hours
PREREQ: Coun 822V
Advance study of theories and research related to vocational development, and current research in the construction and use of occupational and educational information.

902U Advanced Counseling Practicum 2-3 hours
PREREQ: Coun 825V or 826V or 835V
An intensive study of selected counseling theories, methods and research.

903U Counseling With Parents 3 hours
PREREQ: Coun 825V or Coun 835V or permission of instructor
A course emphasizing techniques used in working with families.

DRAMATIC ARTS (D.A.)

Graduate Faculty Members:
Professor, Edwin L. Clark
Associate Professor Robert B. Moore.

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 one 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 15 hours in 800V and 900V level 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.

Course Descriptions

901M Advanced Projects in Dramatic Arts (I,II) Each 1-3 hours

902M PREREQ: 9 hours in dramatic arts in the general area to be studied and permission of department chairman
Special projects in dramatic arts supplementing regular courses: individual research projects; combined study and practicum.
821M Acting: Historical Periods and Styles
PREREQ: Dramatic Arts 220 or permission of instructor. The fundamental theories and practices of major styles of acting from Antiquity to the present, including interpretation of outstanding performances.

824M Stage and TV Lighting
PREREQ: Dramatic Arts 220 and 223. Principles of composition, perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches.

825M Children's Theatre Production
PREREQ: Admission to graduate study. Study of the methods of direction, design, acting and production of plays for children. Students plan a complete production or become actively involved in an actual production.

826M Play Direction
PREREQ: Dramatic Arts 220 or permission of instructor. A practicum in play selection, analysis, casting, directing and performing.

827M Costume History and Design
PREREQ: Dramatic Arts 220 or permission of instructor. The history of human adornment from pre-historic to modern man. Theory and practice in theatrical costume design.

828M History of Theatre to 1642
PREREQ: Admission to graduate study. An historical survey of the theatre as an institution and the literature of the theatre from its origins to 1642.

829M History of the Theatre Since 1642
PREREQ: Admission to graduate study. An historical survey of the theatre and its literature from 1642 to the present.

871M Advanced Oral Interpretation
PREREQ: Dramatic Arts 171. Theories and forms of interpretation from antiquity to the present; preparation and presentation of a recital.

820V Dramatic Theory and Criticism
PREREQ: Dramatic Arts 220 or permission of instructor. For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present.

811M Government and Labor
PREREQ: Econ. 315. A study of the issues, structures and procedures involved in collective bargaining and the settlement of disputes, as centered around the labor-management contract.

812M Urban Geography
PREREQ: Econ. 315. Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

813M Geography of Manufacturing
PREREQ: Econ. 315. A study of the issues, structures and procedures involved in collective bargaining and the settlement of disputes, as centered around the labor-management contract.

ECONOMICS (ECON)
Graduate Faculty Members:
Professor Elroy J. Steele;
Associate Professors Justin D. Stolen, Keith K. Turner;
Assistant Professors William Anthes, Loisjean Drake Tush

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

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V, and 845V.

As part of the required 30 hours, graduate course work in related fields may be taken, up to a total of not more than 9 semester hours.

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 16 hours of the required 36 hours must be approved at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V, and 845V.

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.

Course Descriptions
800V Analytical Foundations of Economics
PREREQ: Knowledge and understanding of the development of the economic structure, production possibilities, and cost factors undertaken.

811M Government and Labor
PREREQ: Econ. 315. Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

812M Urban Geography
PREREQ: Econ. 315. Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

813M Geography of Manufacturing
PREREQ: Econ. 315. A study of the issues, structures and procedures involved in collective bargaining and the settlement of disputes, as centered around the labor-management contract.

814M Competition and Monopoly in American Industry
PREREQ: Econ. 315. An appraisal of the role of competition and monopoly in the American economy; examination of market structures, conduct, and economic performance in a variety of industries.
823M Advanced Macro-Theory
PREREQ: Econ 332
A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical paths being explored.

825M Evolution of Economic Thought
(Medieval through Classical Period) PREREQ: Econ 201, 202
Tracing the evolution of economic thought from the Medieval through the Classical period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.

827M Evolution of Economic Thought
(Neo-classical to Modern Period) PREREQ: Econ 201, 202
Tracing the evolution of economic thought from the Neo-classical to the contemporary period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.

830M Econometrics
PREREQ: DS 213, Econ 201 and 202 or equivalent
Introduction to the study and application of modern statistical and mathematical methods to economic models.

834M Comparative Economic Philosophy
PREREQ: Econ 330
The mainstays of political and economic philosophy are examined in order to understand both the historical basis of comparative economic systems as well as to judge the relative consequences of each. Emphasis is prior to the twentieth century.

837M Contemporary Economic Philosophy
PREREQ: Econ 332
A continuation of Economics 436 with emphasis upon contemporary writers and thinkers.

843M Microeconomic Theory
PREREQ: Econ 322
The mainstays of political and economic philosophy are examined in order to understand the various political and economic systems as well as to judge the relative consequences of each. Emphasis is prior to the twentieth century.

845M Monetary Theory and Policy
PREREQ: FIN 325
The analysis of money in the stabilization at high levels, production, employment, income and prices. Emphasis is on contemporary problems.

854M International Economics
PREREQ: Econ 201 and 202
An inquiry into the facts, techniques, principles, theories rules, and policies shaping, directing, influencing, and governing the spending, taxing, debt, and utilization of scarce resources for state and local governments.

863M International Economic Development
PREREQ: Econ 201-202
Problems relating to early stages of economic development; investment priorities, mobilizing savings and formulating programs are studied.

880M Managerial Economics
PREREQ: Econ 320
Economics applied in decision making, with special emphasis on application of the micro-macro theory. Emphasis is on bridging the gap between theory and managerial practice, stressing the measurement of theoretical concepts, collection and evaluation of information and comparison of alternatives.

895V Economic Education
PREREQ: Econ 908V
A study of and an in-depth examination of selected economic topics and their relation to citizens, students, teachers, community and society.
EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDAD)

Graduate Faculty Members:
Professors Kenneth Burkholder, Darrell F. Kellams (Chairman), Paul C. Kennedy, Kirk E. Naylor, Robert C. O'Reilly, George R. Rachford, Ronald W. Roskens

Administrative Certification
In order to obtain a Standard Administrative and Supervisory Certificate, a person must receive institutional endorsement as well meet the basic state requirements. Information with respect to endorsement will be provided upon request from the department.

Admission to the Program
1. Applicants must submit all credentials requested in the standard application for admission to Graduate Studies.
2. Applicants must hold a Bachelor's degree from a regionally accredited institution.
3. Applicants must have at least two years of experience as a certified teacher.

Admission to Candidacy
1. Applicants must have taken nine approved hours with grades of B or better. Students taking course work beyond nine hours do so at their own risk unless such course work has had prior approval.
2. Applicants must have taken either Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analogies Examination.
3. Applicants must complete the Admission to Candidacy application which requires reference recommendations and approval of a program by an adviser. This application should be procured 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 department to endorse a 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
I. Required Courses
   FED 801V Introduction to Research 15 hours
   EDAD 840V Admin. & Suprv in the Elem. School
   EDAD 846V Practicum I in EDAD
   EDAD 846V Practicum II in EDAD
II. Selected courses from the following
   EDAD 819V Research Project in EDAD
   EDAD 823V Data Processing in EDAD
   EDAD 825V Seminar in EDAD
   EDAD 835V Adm. & Suprv in Junior High School
   EDAD 835V School Business Management
   EDAD 850V School Finance
   EDAD 850V School Plant Planning and Operation
   EDAD 861V Organization and Admin of the Physical Plant
   EDAD 870V Administration and Staff Personnel
   EDAD 880V Administration of Higher Education
   EDAD 895V Adm. & Suprv of Vocational Education
   EDAD 895V Urban School Admn.
   EDAD 930V Admn of Higher Education
   EDAD 934V School Law
III. Selected courses to be taken outside of the department with adviser's approval 9 hours

Major in Secondary Administration and Supervision
I. Required Courses
   FED 801V Introduction to Research 15 hours
   EDAD 840V Admin. & Suprv in the Secondary School
   EDAD 846V Practicum I in EDAD
   EDAD 846V Practicum II in EDAD
II. Selected Courses from the following 12 hours

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<tr>
<th>Course Code</th>
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<tr>
<td>EDAD 810V</td>
<td>Research Project in EDAD</td>
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<tr>
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<td>Data Processing in EDAD</td>
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<td>Seminar in EDAD</td>
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<td>EDAD 855V</td>
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<td>School Plant Planning and Operation</td>
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<td>EDAD 880V</td>
<td>Organization and Admin of the Physical Plant</td>
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<td>EDAD 890V</td>
<td>Administration and Staff Personnel</td>
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<td>EDAD 910V</td>
<td>Interpersonal Relationships in EDAD</td>
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<td>EDAD 920V</td>
<td>Admin of Vocational Education</td>
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<td>EDAD 930V</td>
<td>Urban School Admin</td>
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<td>School Law</td>
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III. Selected courses to be taken outside of the department with adviser's approval 9 hours

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 not less than 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 candidate's committee.

Students cannot assume that any post-M.A. or M.S. 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 the Program

1. Applicants must have been admitted to Graduate Studies.
2. 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.
3. 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.
4. Applicants must have taken either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analog Test Examination. Scores on the GRE must total at least 1200 and the score of the M.A. must be at the 30th percentile or better.
5. Acceptance of candidates with scores falling below those indicated here would be determined by committee action.

Residency Requirement

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.
846V Administration and Supervision in Elementary Schools 3 hours
PREREQ: FED 801V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

947V Administration and Supervision in Secondary Schools 3 hours
PREREQ: FED 801V and EDAD 835V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

848V Administration and Supervision in Junior High School 3 hours
This course is designed to acquaint the student with the nature of administration and supervision of the junior high school program.

855V School Business Management 3 hours
An analysis of the functions of business management; budgetary procedures; financial accounting, auditing and reporting; management of funds, purchasing procedures, and inventory; administration and protection of property; and administration of transportation.

856V School Finance 3 hours
PREREQ: FED 801V and EDAD 835V
A study of the sources of school financing; local, state and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance.

866V School Plant Planning and Operation 3 hours
PREREQ: FED 801V and EDAD 835V
Includes steps in planning the modern school building: site selection, building construction and design; school furniture and equipment; maintenance and operation; rehabilitation; scheduling of work; and custodial care.

867V Organization and Administration of the Physical Plant 3 hours
PREREQ: EDAD 806V
Designed to give the school administrator competence in organizing the maintenance and operation program of the school plant; includes long range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care.

970V Administration and Staff Personnel 3 hours
PREREQ: FED 801V and EDAD 835V
This course deals with personnel policies, problems, and issues in the following areas: teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations and legal status. Emphasis will be placed upon the techniques of democratic administration.

971V Interpersonal Relationships in Educational Administration 3 hours
PREREQ: FED 801V and EDAD 835V
This course is designed to acquaint the student with the principles of modern administrative and supervisory practices as they relate to the secondary school.

980V Administration and Supervision of Vocational Education 3 hours
Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor.

981V Urban School Administration 3 hours
This course is designed to acquaint students of educational administration with urban problems and issues which most significantly affect the administration of city schools.

982V Administration of Higher Education 3 hours
PREREQ: Admission to graduate study
A study of the major functions of higher education, with emphasis on the principles involved in organizing and directing the academic program, the activities of the student body, the faculty and staff, personnel policies, financing the program, operating the buildings and grounds and conducting the public relations program.

800U Seminar in Research Design 3 hours
PREREQ: Adm to Ed.S. Program
A seminar designed to acquaint students with the principles of research design and to provide experience in the application of these principles to problems in Educational Administration.

801V Advanced Seminar in Educational Administration 3 hours
PREREQ: Admission to Education Specialist Program
Participation is limited to individuals who have been admitted to candidacy for the Specialist in Education degree with a major in school administration. Emphasis will be placed upon the theory and techniques of administration.

911V Field Project in Educational Administration 3 hours
PREREQ: Admission to Education Specialist Program and Approval, Department Chairman
The study of a problem in the area of school administration, and employment of the techniques of research.

934 School Law 3 hours
PREREQ: FED 801V and EDAD 835V
This course is concerned with laws related to schools. Topics include certification, contract, negligence, curriculum, administration, pupil control, and transportation. Each is approached through study of most recent court pronouncements.

EDUCATIONAL FOUNDATIONS (FED)

Graduate Faculty Members:
Professors G. Wayne Glidden (Chairman), Joseph G. Dunn, Eugene H. Freund, James W. Selee, Floyd Waterman
Associate Professor Blaine E. Ward
Assistant Professor Patricia Kolasa

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 select courses on any approved program of study. Second, courses are offered as part of the Master of Science Degree in Education—Urban Education Major.

Master of Science in Education
Major in Urban Education

Students pursuing a program in Urban Education are developed on an individual basis by the student and his adviser. The Urban Education major is designed to provide the student understanding and competency in research tools, urban society, the urban school environment, and students who live in the urban setting. This program will help the student identify public and private social agencies as well as relevant social, economic, and educational problems and alternative patterns of solutions. Cognate courses in this major are intended to provide students the opportunity to explore and expand their knowledge in the behavioral and social science disciplines.

To pursue degree work in the Department, students must hold a valid teaching certificate in either elementary or secondary education, and must have an interest in learning more about students, schools, and society in the urban setting. All applicants must be interviewed by the program director, Professor James W. Selee. The program director will assign students to a faculty member of the Urban Education Committee of the Department of Educational Foundations. Before the student's second enrollment, the student must take the Graduate Record Examination. Applicants must complete the Admission to Candidacy application which must have approval of the assigned adviser. The Admission to Candidacy application should be procured immediately upon completion of twelve hours; otherwise the applicant takes course work at his own risk unless such course work has had prior approval.
Students seeking the Master of Science Degree in Education with a major in Urban Education will find an individual program of study will be tailored to fit the applicant's experience background, previous preparation, and educational objectives. The following general program outline is provided.

### Required Courses

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#### Course Descriptions

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An introduction to the study of adult education as a major development in contemporary America. The course surveys the major forms and problems of adult education and the foremost agencies providing programs.

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A study of adult groups in modern society and the characteristics of effective leadership in all types of groups.

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ELEME NTA RY AND EARLY CHILDHOOD EDUCATION (EED)

Graduate Faculty Members:
Professors Robert L. Ackerman, (Chairman), Hollie Bethel, Helen Howell;
Associate Professor: Mary J. Lickteig
Assistant Professor Irene Hoover

Master of Arts

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

Master of Science

Applicants should hold a valid elementary education teaching certificate. Students pursuing a Master of Science degree with a major in Elementary and Early Childhood Education will be expected to complete the listed required courses and to choose an area of concentration as described below:

I. Required Courses

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<tr>
<td>FED 801V, Introduction to Research</td>
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<td>FED 802V, History and Philosophy of Education</td>
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<tr>
<td>EED 81V, Diagnostic and Corrective Instruction</td>
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<tr>
<td>EED 804V, Test Development in Elementary Education</td>
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<td>EDAD 81V, Seminar in Elementary Education</td>
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<td>EDAD 816V, Administration and Supervision in Elementary Schools</td>
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II. Area of Concentration

Each student will include in his Plan of Study, an area of concentration in a special field which will provide depth in an area of his interest. All concentrations will be decided upon in conference with the student's departmental adviser. Possible choices include: Reading, Early Childhood Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, or an academic concentration, e.g., history, English mathematics.

III. Electives

Course Descriptions

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<td>820M Literature for Children and Youth</td>
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<tr>
<td>827M Current Trends in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>800V Special Studies</td>
<td>3</td>
</tr>
<tr>
<td>810V Research Project</td>
<td>1-2</td>
</tr>
<tr>
<td>819V Diagnostic and Corrective Instruction</td>
<td>3</td>
</tr>
<tr>
<td>820V Improvement of Instruction in Elementary Science</td>
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Improved and T rear th s in Elementary Education (EED)

PREREQ: FED 801V

3 hours

- A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate content and methods of curriculum reorganization.

844V Seminar in Elementary Education (EED)

PREREQ: FED 801V

3 hours

- A study of educational problems as they relate to the elementary school, to be taken in the last nine hours in the program for the Master of Science degree.

845V Seminar in Supervision of Student Teachers-Elementary

PREREQ: 2 years of teaching experience

3 hours

- Designed for experienced teachers who are or may be serving as cooperating teachers, and who desire to study student teaching, its aims, procedures, objectives, trends and developments.

870V Practicum in Elementary and Early Childhood Education

PREREQ: Permission of Adviser

3-6 hours

- This practicum is for selected graduate students who are participating in the graduate program in elementary and early childhood education. The six-hour practicum experience will consist of one semester of full-time teaching in an elementary school under the supervision of a graduate faculty member of the Department of Elementary and Early Childhood Education. (Half-time teaching will grant 3 hours of credit.)

871V Advanced Practicum in Elementary Education

PREREQ: FED 801V

3 hours

- Designed for non-certified students and satisfactory completion of EED 870V, Practicum in Elementary Education.

Thesis

1-4 hours

- Independent research project required of all students taking Master of Arts degree. See major adviser.

ENGLISH (ENG)

Graduate Faculty Members:
Professors Bruce Baker (Chairman), Robert D. Harper, Richard L. Lane, Glen A. Newkirk, Ralph M. Wardle;
Associate Professor M. Jean Bressler
Assistant Professors Robert J. Detisch, John J. McKenna, Gene E. Russell

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 with majors in English are required to take English 801V (Introduction to Literary Research) and to complete one of the following plans of study:


Plan B: Successful completion of 36 credit hours in course work, including at least 18 hours in 800V-, 802V-, 809V-, 810V-, 813V-, 820V-, 898V-, 912-, 915-, 833M Sixteenth Century Literature, 840M B50M, 865M, 8611M History of the English Language, and 872M Medieval English Literature.

The following English seminars in major periods vary in emphasis and may be repeated for an additional three hours of credit: English 808V, 809V, 810V, 813V, 820V, 898V, 912, 915.

Course Descriptions

815M Contemporary French and German Novel

PREREQ: Permission
Comparative study of selected contemporary French and German novels in translation. Cross-listed as French 815M and German 815M.

831M Sixteenth Century Literature

PREREQ: Graduate
Poetry and prose of the English Renaissance, from its continental origins to the Elizabethan Age.

841M Chaucer

PREREQ: Eng. 231
A study of the language and writing of Chaucer, with emphasis on The Canterbury Tales.

845M English Literature in the Age of Pope and Swift

PREREQ: Graduate
Poetry, prose (exclusive of the novel) and drama of England during the second half of the eighteenth century.

848M Seventeenth Century Literature

PREREQ: Graduate
A study of the English poetry and prose of the seventeenth century to the Restoration with emphasis on Milton.

850M English Drama before 1642

PREREQ: Eng. 231 or permission
A study of the development of the English drama, exclusive of Shakespeare, from the beginnings to 1642.

850M Structural Linguistics

PREREQ: Graduate or permission
An analysis of the English language as it is spoken with the end view of gaining better understanding of the language and how to make it work most effectively.

865M The English Novel

PREREQ: Graduate
The development of the English novel from the beginning to the end of the Victorian period.

8611M History of the English Language

PREREQ: Eng. 231 or permission
A study of the internal and external forces which have influenced the development of the English language.

872M Medieval English Literature

PREREQ: Eng. 231 or permission
A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.
FOREIGN LANGUAGES

Graduate Faculty Members:
Professor Woodrow L. Most (Chairman);
Associate Professors Gaylord Todd, Kenneth Eller;
Assistant Professors Anthony Jung, Norman J. Luna

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

Course Descriptions

French (FREN)

600M Independent Study
PREREQ: Permission of the instructor
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.

602M Introduction to the Study of Language
PREREQ: Graduate standing or permission
A broad, general study of the nature of language, how it functions and changes; references to contemporary trends in linguistic analysis and research.

811M Contemporary French and German Novel
PREREQ: Permission
Comparative study of selected contemporary French and German novels. Crosslisted as German 815M and English 815M.

817M Contemporary French and German Drama
PREREQ: Permission
Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in French for French students. Cross-listed with German 817M and English 817M.

812M Comparative Studies in French-Anglo-American Literature
PREREQ: Permission
A comparative study of selected works in French and Anglo-American literature. Conducted in English with English translations. Additional readings in French for French students. Cross-listed as English 812M.

813M Sixteenth Century French Literature
PREREQ: Any 300 course in French literature
Literature of the Renaissance, Rabelais, Molière, Montaigne.

814M Seventeenth Century French Literature
PREREQ: Any 300 course in French literature
The Classical School, Descartes, Pascal, Racine, Lafayette.

816M Eighteenth Century French Literature
PREREQ: French 315 or permission
Comedy, novel, poetry, drama, the Philosophers, Pre-Romanticism.

817M-818M Nineteenth Century French Literature
PREREQ: French 315 or permission
849M German Literature of the Seventeenth Century ........................................... 3 hours
PREREQ: German 302 or permission of instructor
The principal dramatic epic and lyric works of seventeenth century German literature.

850M German Literature of the Eighteenth Century ........................................... 3 hours
PREREQ: Permission of instructor
A study of representative authors of the Enlightenment, Storm and Stress, and German Classicism: Lessing, Herder, Schiller, and Goethe.

854M Bibliography and Methodology ................................................................. 1-2 hours
PREREQ: Permission of instructor
An introduction to the basic bibliography and methodology of German literature and language.

865M Pro-Seminar ................................................................. 3 hours
PREREQ: Permission of instructor
A detailed study of narrower phases of German literature, language, or culture.

Spanish (SPAN)

860M Independent Study ................................................................. 1-3 hours
PREREQ: Permission of the instructor
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.

855M Introduction to the Study of Language .................................................. 3 hours
PREREQ: Graduate standing or permission
A broad, general study of the nature of language, how it functions and changes: references to contemporary trends in linguistic analysis and research.

818M Theater of the Golden Age ................................................................. 3 hours
PREREQ: 317 or permission of instructor
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.

811M Novel of the Golden Age ................................................................. 3 hours
PREREQ: 317 or permission of instructor
Study of the prose masterpieces of the sixteenth and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote.

815M Spanish American Literature of the 20th Century .................................. 3 hours
PREREQ: 317 or permission of instructor
Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from Modernism to the present.

813M Mexican American Literature ................................................................. 3 hours
PREREQ: Permission of instructor
A study of representative works of Mexican American, Spanish American, and American writers, along with their cultural and historical antecedents. Cross-listed as History 446M.

820M Spanish American Novel ................................................................. 3 hours
PREREQ: 223 or permission
Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.

821M Generation of 1898 ................................................................. 3 hours
PREREQ: 318 or permission
Examination of the ideology, philosophy, and literary techniques of Unamuno, Martinez Ruiz, Valle-Inclan, Baroja and Antonio Machado.

831M Spanish American Short Story ................................................................. 3 hours
PREREQ: 221 and 222 or permission
Representative stories of the nineteenth and twentieth centuries from Romanticism to current production.

855M Modern Drama of Spain ................................................................. 3 hours
PREREQ: 318 or permission
Ideologies, techniques, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries.
66

THE GRADUATE BULLETIN

Course Descriptions

341J History of Nebraska (Same as Hist. 841J) 3 hours
PREREQ: Permission From earliest known records to the present.

801M Conservation of Natural Resources 3 hours
PREREQ: 3 hours of Geog. A study of physical, cultural, and human resources of nations with emphasis on the United States. Includes the history of conservation in the U.S., the philosophy behind the movement, current conservational practices and problems, and the direction in which resource use and moving.

803M Computer Mapping and Data Analysis 3 hours
PREREQ: Geog. 336, and a course in introductory statistics. Computer techniques in mapping and analyzing areal data. Emphasis is placed upon data bank retrieval and address systems as input to various mapping and statistical programs.

811M Urban Geography (Same as Econ. 812M and Soc. 811M) 3 hours
A geography of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.

813M Geography of Manufacturing (Same as Econ. 813M) 3 hours
A course which discusses methods of measurement and classification, as well as the function of manufacturing in the world manufacturing region and industry analysis; location criteria and theory in the U.S. and local community patterns.

814M Urban Sociology (Same as Soc. 814M) 3 hours
PREREQ: Graduate A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social, psychological, and institutional aspects. The unique problems of the modern metropolis complex, both as to effective functioning and as an environment for human beings, are discussed.

815M Great Plains and Nebraska (Same as Hist. 841M) 6 hours of Geog. This is a regional geography course intended for geography majors and Arts and Sciences students who may have an interest in this particular area. It is desirable to have had some previous study with regional geography.

825M Landform Studies I (Geomorphology I) 3 hours
PREREQ: Geog. 107, or 117, or 203 Primarily a lecture course with quantitative work included. Emphasis on understanding more theoretical aspects of processing and conditioning factors which produce landforms. Should be regarded as first half of a two-semester landform studies course. Evolution of slopes is emphasized.

826M Landform Studies II (Geomorphology II) 3 hours
PREREQ: Geog. 107, or 117, or 203 Primarily a lecture course with quantitative work included. Primarily a lecture and laboratory course. Emphasis on methodology and modern process-oriented geomorphology. Should be taken as second half of a two-semester landform studies course.

832M Climatology 3 hours
PREREQ: Geog. 106, a meteorology course, or permission. Will include basic review of the various atmospheric elements; climatic classification; analysis of selected climatic regions; and effect of climatic phenomena on shaping the cultural and physical landscape in general.

843M American Urban History to 1870 (Same as Hist. 843M) 3 hours
PREREQ: Permission Historical survey of urban development in the United States from the colonial period through the 1860's urban society, problems, institutions, role of cities in national history; American ambivalence toward cities.

844M American Urban History Since 1870 (Same as Hist. 844M) 3 hours
PREREQ: Permission American urbanization from 1870's 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.

850M Historical Geography of the United States (Same as Hist. 850M) 3 hours
PREREQ: Hist. 111 and 112 A course dealing with the geography of the past. Emphasis is placed on the consequent orance of regions in the United States or the geography of major divisions of the United States at selected times in the past.

860M Independent Research (May be repeated to a maximum of 3 hours)
PREREQ: Permission of Department Chairman Advanced study in the major field of a major paper to give the senior or graduate student knowledge of and experience in using government documents, professional and primary materials, concerned with a region. Must be under the supervision of the instructor who is particularly qualified for the continent chosen. Paper will be presented to either the graduate General Seminar or the local chapter of GTU, National Honor Geography Fraternity.

892M Urbanization in Developing Areas 3 hours
PREREQ: 6 hours of Geog, and Urban Geog. 812M The functions and morphology of various types of cities found in present developing areas of the world. Emphasis will be upon contrasting the cities of the developed and developing areas.

(All 800V and 900 Courses Require Department Permission)

801V Geography Concepts: History and Philosophy 3 hours
PREREQ: Permission Introduction to History of Geography. Emphasis on significant ideas, concepts, methodologies, and philosophies in geography from the classical Greeks to present.

802V Geography Concepts: Quantitative Methods 3 hours
PREREQ: Permission The understanding and appreciation of quantitative techniques in geography. Emphasis is placed on sampling theory and design, graph theory and spatial statistics.

804V Seminar in Educational Geography 3 hours
PREREQ: Permission A survey of methods, instruction aids and goals for teaching geography. Designed to aid the teacher in the improvement of geographic instruction in the elementary and secondary schools as well as in higher education.

805V Cultural Geography 3 hours
PREREQ: Permission The philosophical basis of human and cultural geography; interpretation of the cultural landscape.

806V Geography of Agriculture 3 hours
PREREQ: Permission and Geog. 313 or Econ. 313 A systematic study of the characteristics of agriculture on a world-wide basis.

808V Advanced Geomorphology 3 hours
PREREQ: Geog. 825M or 826M and 107, or 101, Permission A seminar and lecture course on the current concepts and controversies in the field of landform studies. Discussion will emphasize classic ideas as well as the modern concepts of climatic, dynamic, and quantitative geomorphology. Study of Quaternary chronology will be necessary. Several optional Saturday field trips.

809V Physical Geography of North America 3 hours
PREREQ: Geog. 107 (104), or 117, or 118 A study of the landforms regions of North America as related to the whole study of geography by means of a systematic analysis of geologic patterns.

811V Soils 3 hours
PREREQ: Geog. 106 or 107 (104) An examination of the older geographical concepts of the distribution and morphology of soil and the new works concerned with soil forms on a regional, rather than zonal, basis.
Seminar in Urban Economics
PREREQ: Permission, and Geog. 812M. Permission
A field course designed to understand, by actual field investigation, land use patterns in urban areas through the comprehension of social, physical, and economic factors which tend to shape the land use of a given place. The major emphasis will be placed upon field investigations in the urban area, with the functional region receiving the major consideration.

Urban Seminar in Metropolitan Planning and Development
PREREQ: Geog. 812M or recommendation from P.A. Sociology, or Economics Department. An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of annexation.

Independent Study in Topics on Urbanism
PREREQ: Undergraduate major in one of the social sciences, plus six hours of graduate work in one of the Social Sciences. Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. (Also listed under Economics, Political Science, and Sociology.)

Urban Seminar in Metropolitan Planning and Development
PREREQ: Geog. 812M or recommendation from P.A. Sociology, or Economics Department. An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of annexation.

Interdisciplinary Seminar on the Urban Community
PREREQ: Undergraduate major in one of the social sciences plus six hours of graduate work in one of the social sciences. An interdisciplinary course on the metropolitan community in which various departments and collegiate offerings concerned with urban problems are put in broad interrelated focus. (Also listed under Economics, Political Science, and Sociology.)

Seminar in Urban Economics

Educational Gerontology
PREREQ: None Dr. Peterson
An introduction to the field of education for and about the aging. The disciplines and processes of education will be analyzed to determine the relationship and value to persons who are now old and those who are aging.

Applied Social Gerontology
PREREQ: 6 credit hours of Sociology or permission Dr. Clute
An introduction to Social Gerontology with a special emphasis on the effects of aging on social institutions and social participation and on examination of practice-oriented implications.

Health Aspects of Aging
PREREQ: None Dr. Westerfield
The study of psychological, sociological and physiological factors that influence the health of the aging, with particular emphasis given to those changes that have implications for disease and health disorders.

Geropsychology
PREREQ: 6 hours of Psychology or 6 hours of Gerontology or permission Dr. Pedrini
This course considers the psychology of aging. The focus will be on the period from middle years to later years rather than the infant, pre-school, adolescent and young-adult years.

Special Studies in Gerontology
PREREQ: Permission of the instructor Dr. Peterson
Special studies designed around the interests and needs of the individual student in such areas as the psychology, sociology, economics, or politics of aging, as well as operation of various service systems. The studies may be either a literature review project or a field project in which experience is gained in the community identifying and analyzing needs and services related to older people.

Counseling Skills in Gerontology
PREREQ: Permission of the instructor Dr. Blake
The application of basic counseling skills to work in Gerontology.

Health, Physical Education, and Recreation (HPER)

Thesis
1 to 6 hours Independent research project written under the supervision of an advisor.

Seminar in Problems of Political Geography
PREREQ: Permission, and Geog. 393
Case studies in land boundaries, territorial waters, and in population aspects of boundary problems. A review of important studies in Political Geography.

Seminar in Regional Geography
(3-6 credits, maximum 3 per semester, except foreign, country field work) Professor Gordon B. Schiltz

General Seminar (required, no credit)
Professor Gordon B. Schiltz
Review of current research by geographers including national and international associations and initial thesis proposal.

Graduate Faculty Members:
Professor David Peterson (Chairman)
Graduate courses are offered to fulfill requirements for a minor field or as selected courses on a plan of study.

Course Descriptions

Economics

916M Educational Gerontology
3 hours
PREREQ: None Dr. Peterson
An introduction to the field of education for and about the aging. The disciplines and processes of education will be analyzed to determine the relationship and value to persons who are now old and those who are aging.

91M Applied Social Gerontology
3 hours
PREREQ: 6 credit hours of Sociology or permission Dr. Clute
An introduction to Social Gerontology with a special emphasis on the effects of aging on social institutions and social participation and on examination of practice-oriented implications.

91M Health Aspects of Aging
3 hours
PREREQ: None Dr. Westerfield
The study of psychological, sociological and physiological factors that influence the health of the aging, with particular emphasis given to those changes that have implications for disease and health disorders.

92M Geropsychology
3 hours
PREREQ: 6 hours of Psychology or 6 hours of Gerontology or permission Dr. Pedrini
This course considers the psychology of aging. The focus will be on the period from middle years to later years rather than the infant, pre-school, adolescent and young-adult years.

92M Special Studies in Gerontology
1-3 hours
PREREQ: Permission of the instructor Dr. Peterson
Special studies designed around the interests and needs of the individual student in such areas as the psychology, sociology, economics, or politics of aging, as well as operation of various service systems. The studies may be either a literature review project or a field project in which experience is gained in the community identifying and analyzing needs and services related to older people.

93M Counseling Skills in Gerontology
3 hours
PREREQ: Permission of the instructor Dr. Blake
The application of basic counseling skills to work in Gerontology.

Health, Physical Education, and Recreation (HPER)

Health, Physical Education, and Recreation (HPER)

Graduate Faculty Members:
Associate Professor Richard B. Flynn (Chairman)
Assistant Professor John Raducha
The Department of Health, Physical Education, and Recreation offers graduate courses in the areas of health education (HED), recreation education (RED), and physical education (PED). At present, the Master of Arts and the Master of Science degrees are offered with a major in physical education.

**MASTER OF SCIENCE**

**Major in Physical Education**

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

### AREA

<table>
<thead>
<tr>
<th>I. PE Core</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 522V Problems and Issues in Physical Education</td>
<td>12</td>
</tr>
<tr>
<td>PE 523V Curriculum in Physical Education</td>
<td></td>
</tr>
<tr>
<td>PE 540V Motor Learning and Performance</td>
<td></td>
</tr>
<tr>
<td>PE 565V Kinesiological Analysis of Motor Skills</td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td></td>
</tr>
<tr>
<td>Research Methods, Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>III. Professional Specialization</td>
<td></td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Workshops, Independent Research, Special Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
| IV. Related Professional Courses | | *
| V. Related Academic Courses | | 18

**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 six areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. The student in consultation with the major adviser will determine the exact courses leading to the degree.

### AREA

<table>
<thead>
<tr>
<th>I. PE Core</th>
<th>HOURS</th>
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</thead>
<tbody>
<tr>
<td>PE 522V Problems and Issues in Physical Education</td>
<td>12</td>
</tr>
<tr>
<td>PE 523V Curriculum in Physical Education</td>
<td></td>
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<tr>
<td>PE 540V Motor Learning and Performance</td>
<td></td>
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<tr>
<td>PE 565V Kinesiological Analysis of Motor Skills</td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td></td>
</tr>
</tbody>
</table>
| Research Methods, Statistical Methods | 3 | *
| III. Professional Specialization | |
| Improvement of Instruction, Teaching Seminars, Workshops, Independent Research, Special Studies | 3 | *
| IV. Related Professional Courses | | *
| V. Related Academic Courses | | 18
| VI. Thesis | 6 | 6

* Minimums or maximums are determined by adviser.

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**Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>624M</td>
<td>Organization and Administration of Recreation</td>
<td>3</td>
</tr>
<tr>
<td>PREREQ: At least 9 hours of upper division courses in recreation or permission. Designed to provide a background of information on community recreation with special attention to organization, promotion, and development of recreational programs.</td>
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</tr>
<tr>
<td>655M</td>
<td>Health Aspects of Aging</td>
<td>3</td>
</tr>
<tr>
<td>An examination of factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders.</td>
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</tr>
<tr>
<td>659M</td>
<td>Measurement and Evaluation in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Analysis of tests, measurement apparatus and testing procedures used in physical education. Includes a study of basic statistics. Practical experience in test administration in the schools is provided.</td>
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<tr>
<td>664M</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>The response of human systems to exercise and physical conditioning programs. Includes a study of the physiological basis of muscular strength, endurance, and cardiovascular stress; the effects of nutritive aids on physical performance; and physiological principles of conditioning and fitness programs.</td>
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<tr>
<td>603V</td>
<td>Special Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>PREREQ: Permission of Department. A series of intensive courses—scheduled as regular seminars, or workshops, according to purpose.</td>
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<td></td>
</tr>
<tr>
<td>619V</td>
<td>Research Project</td>
<td>1-3</td>
</tr>
<tr>
<td>PREREQ: Permission of Instructor. Individual or group study and analysis of specific problems in health, physical education or recreation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>622V</td>
<td>Problems and Issues in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>An examination 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.</td>
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<td></td>
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<tr>
<td>625V</td>
<td>Supervision of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.</td>
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<tr>
<td>628V</td>
<td>Curriculum in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>A study of the foundations for curriculum development and related educational programs. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.</td>
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<tr>
<td>629V</td>
<td>Analysis of Research and Literature in Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>Survey of research and literature in human movement for the purpose of orienting the student to possible areas of research and developing an understanding and appreciation of writings in the field.</td>
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<tr>
<td>637V</td>
<td>Improvement of Instruction in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>An examination and discussion of current programs, content, methods and materials within physical education. Emphasized is the improvement of each individual's teaching in the physical education setting.</td>
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<td></td>
</tr>
<tr>
<td>640V</td>
<td>Motor Learning and Performance</td>
<td>3</td>
</tr>
<tr>
<td>A study of conditions and factors which influence the learning and performance of motor skills with particular attention being given to those skills having relevance for the teacher of physical education.</td>
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<td></td>
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<tr>
<td>645V</td>
<td>Kinesiological Analysis of Motor Skills</td>
<td>3</td>
</tr>
<tr>
<td>An investigation of the biomechanical basis of motor performance. Includes a descriptive analysis of fundamental movement forms and an examination of techniques for collecting kinesiological data.</td>
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<tr>
<td>699</td>
<td>Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>PREREQ: Permission. Independent research project written under the supervision of an adviser.</td>
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</tbody>
</table>
HISTORY (HIST)

Graduate Faculty Members:
Professors Frederick W. Adrian, Paul L. Beck, Jo Ann Carrigan, Ert J. Gum, Roy M. Robbins (Emeritus), A. Stanley Trickett;
Associate Professors: Karl A. Dalstrom (Chairman), Dale A. Gaedert, Richard A. Overfield, William R. Petrowski, William C. Pratt, Jacqueline St. John;
Assistant Professors: Nan L. Brit, Tommy R. Thompson

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

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 for graduate registration, i.e., seminars. The other 15 hours may be either lecture courses or courses numbered 801V. A balance of 13 and 9 hours must be maintained between major and minor areas of study. Seminar study should be divided two and one, depending upon the student's area of concentration.
II. 15 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved hours of graduate course work in a related field, such 9 hours constituting a graduate minor. The minor department must be consulted to determine the student's eligibility to do graduate work in that department. In either program of study, a thesis, not to exceed 6 semester hours in independent study credit, is required under the direction of the major adviser. In the event that less than 8 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 showing broad competency in history, the candidate must give proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.

3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be gained by the adviser's permission, and the approval of the Graduate Program Committee.
4. Whether or not the student elects a minor in an outside field, he shall maintain a reasonable balance between American and non-American fields in history.
5. When the student initially enrolls, he shall, in conference with the chairman of the Graduate Program Committee of the Department of History, choose his adviser. The chairman of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the Dean for Graduate Studies for official appointment. The advisory committee shall be composed of members of the Faculty appropriate to the student's program and academic interests. The chairman of the advisory 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 expects to take the degree, he/she must make arrangements with his/her sponsor to take the comprehensive written examination.
2. The examination in history will consist of two parts, one devoted to the major area, and one to the minor area of study.
   a. If the major area of study is European/English history, the examination will be comprehensive, taking into consideration the student's program of study. The non-European/English portion of the examination will be over the specific student's taken for the minor. The major area examination will be of six hours duration (two three-hour segments), and the minor area examination will be of three hours duration.
   b. If the major area of study is American history, the examination will be comprehensive, divided into two three-hour segments, with the breaking point for the two segments normally following the breaking point of the American history survey (History 111-112) course. The minor portion of the examination will be over the specific minor courses taken, and will be of three hours duration.
   c. If the candidate offers an outside minor, the minor department and adviser will be responsible for the minor examination.
3. The reading committee will consist of the sponsor and one other graduate faculty member in the major area. The readers for the minor area will be the instructors of the courses offered in the minor. In the major area, the selection of the second reader shall be made by the sponsor and candidate. Both readers of the major and all readers of the minor area must agree that the candidate has passed the examinations for which they are responsible. In the event of disagreement, a third reader may be consulted as a mediator, and the result he/she supports will be the result of the examination.
4. The sponsor and the reading committee will select the items to appear on the examination, and determine the number of essays to be written. The candidate will have a choice of questions on each portion of the examination.

5. Once the examination has been administered and graded, the secretary has forms to be filled out by the sponsor, signed by the Graduate Program Committee chairperson, and sent to the Dean for Graduate Studies, certifying the candidate for conferral of the degree.

Course Descriptions

811J American Economic History to 1665 3 hours
PREREQ: Graduate standing
A survey of American economic development from colonial times to the end of the Civil War.

812J American Economic History Since 1665 3 hours
PREREQ: Graduate standing
A survey of American economic development from the Civil War to the present.

813J American Colonial History 3 hours
PREREQ: Graduate standing
A study of the background settlement, and development of the English colonies.

814J The American Frontier: 1600-1840 3 hours
PREREQ: Graduate standing
A study of the frontier systems of the Thirteen Colonies and of Spain and France, and the Westward Movement of the United States to the Mississippi River.

815J The American Frontier: 1840-1900 3 hours
PREREQ: Hist 615J or permission of instructor
The Trans-Mississippi West from Spanish and French days to the disappearance of the frontier around 1900.

833J Diplomatic History of the United States to 1900 3 hours
PREREQ: Graduate standing
A study of the foreign relations of the United States before 1900.

834J Diplomatic History of the United States Since 1900 3 hours
PREREQ: Graduate standing
A study of the foreign relations of the United States since 1900.

841J History of Nebraska 3 hours
PREREQ: Graduate standing
From the earliest known records to the present.

842J History of the South 3 hours
PREREQ: Graduate standing
Economic, social and political development of the South as a region.

851J Economic History of Europe to 1760 3 hours
PREREQ: Graduate standing
A survey of European economic development to 1760.

852J Economic History of Europe Since 1760 3 hours
PREREQ: Graduate standing
A survey of European economic development from 1760 to the present.

853J Medieval Europe, 284-1555 3 hours
PREREQ: Graduate standing
Establishment and development of the medieval church and of feudal society from the decline of the Roman Empire to the beginning of the Crusades.

854J Medieval Europe, 1095-1492 3 hours
PREREQ: Graduate standing
Religious, social, economic, philosophic and institutional developments of the era extending from the Crusades and the investiture struggle through "the waning of the middle ages."
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>PREREQ:</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>823M</td>
<td>Nineteenth-Century America</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
<td></td>
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<tr>
<td>830M</td>
<td>American Constitutional History to 1860</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>831M</td>
<td>American Constitutional History Since 1860</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>843M</td>
<td>History of American Science</td>
<td></td>
<td>3</td>
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<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>844M</td>
<td>American Urban History to 1870</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
<td></td>
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<tr>
<td>845M</td>
<td>American Urban History Since 1870</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
<td></td>
<td></td>
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<tr>
<td>847M</td>
<td>Intellectual History of Modern Europe: Seventeenth and Eighteenth Centuries</td>
<td>(I)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>848M</td>
<td>Intellectual History of Modern Europe: The Revolutionary Age to the Present</td>
<td>(I, II)</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>851M</td>
<td>Intellectual History of Modern Europe: The Age of the Reformation</td>
<td>(I)</td>
<td>3</td>
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<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>852M</td>
<td>The Age of the Enlightenment</td>
<td>(I)</td>
<td>3</td>
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<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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<tr>
<td>853M</td>
<td>The French Revolution and Napoleonic Era: 1789-1815</td>
<td>(I)</td>
<td>3</td>
</tr>
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<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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</tr>
<tr>
<td>854M</td>
<td>Nineteenth Century, 1815-1848</td>
<td>(I)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>PREREQ:</strong> Graduate standing</td>
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</tbody>
</table>

**Notes:**
- PREREQ indicates the required prerequisite for each course.
- All courses are 3 hours unless specified otherwise.
- Course codes are prefixed with "850" for historical studies and "851" for political studies.
- The courses cover various periods and topics, including constitutional history, urban development, intellectual history, and revolutionary movements.
- Each course has a specific focus, such as American urban history, intellectual history of modern Europe, and Nineteenth Century history.
- The courses are offered with varying credits, typically 3 hours, but some courses offer more or less than this standard.
The following seminars stress the development of individual research on significant problems. Seminar topics for History 810V (History 910), History 821V, and History 963 will be stated in sub-headings published in the Graduate and Undergraduate Catalog. An introduction to bibliography and the development of the methods of historical research will be incorporated in each seminar.

PREREQ: Graduate standing and permission of instructor each 3 hours

810V (310) Seminar in American History (also History 910) (W. R. Petrowski, W. C. Pratt, and R. M. Robbins)

821V Seminar in European History Since 1865 (also Economics 940) (W. R. Petrowski)

940 Seminar in American Economic History to 1865 (also Economics 940) (W. R. Petrowski)

941 Seminar in American Economic History Since 1865 (also Economics 941) (W. R. Petrowski)

943 Seminar in British History (A. S. Trickett)

HOME ECONOMICS (HOM ECON)
Associate Dean, Mary Hall
Home Economics graduate offerings at UNO may be used to satisfy, in part, the individual programs which will be determined in consultation with the appropriate graduate committee. It will normally be necessary to take other courses on the Lincoln campus, though additional graduate course offerings from the Lincoln listings will be available in Omaha periodically, dependent upon demand and staff.

Admission to a graduate program in the College of Home Economics requires presentation of the baccalaureate degree from an accredited institution. Departments within the college may determine specific course deficiencies.

Application is to be made to Graduate Studies, Lincoln Campus:
Registration by consultation with a member of the Graduate Committee of the College of Home Economics and the major adviser and with the approval of the UN-L Dean of Graduate Studies. Each department or group of allied departments offering graduate work as a field of specialization has a Graduate Committee of three or more members. Each new graduate student should consult the chairman of the Graduate Committee of this major department for assignment to an adviser. In their respective departments these Graduate Committees have general supervision over the work of candidates for the master's degree. They may give such tests as are necessary in order to determine whether the applicants are adequately prepared for graduate study.

Interdepartmental area offers graduate work leading to the Master of Science or Master of Arts degree.

Students applying for study in the Interdepartmental Area must hold a bachelor's degree in Home Economics or its equivalent. The undergraduate work must include the equivalent of 24 hours in Home Economics, distributed in at least three subject matter areas and 18 hours in Natural and Social Sciences including a minimum of 9 hours in the Natural and 6 hours in the Social Sciences.

Work leading to the master's degree in Home Economics may be completed under Option I, II, or II. (See Graduate Studies Bulletin—Lincoln) If Option I is selected the thesis research may be done in any one of the four cooperating departments. Under any option not more than one-half of the total program for the master's degree, including thesis research when applicable, may be completed in the major subject matter areas. These subject matter areas are: Education and Family Resources, Food and Nutrition, Human Development and the Family, Textiles, Clothing and Design. At least 6 hours of the remaining work must be completed in one or more of the subject matter areas other than the major area. Additional supporting courses may be completed in cooperating departments or in the departments of the College of Home Economics. However, if Option II is selected the required minor must be completed in a department other than those in the College of Home Economics.

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 from an accredited college and have completed undergraduate preparation the equivalent of that required in the Basic General Education 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, 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 the equivalent of that required in the Basic General Education Core in Home Economics plus at least 18 hours exclusive of freshmen courses in Human Development and the Family or the equivalent from Psychology, Education Psychology or Sociology.

Graduate courses scheduled regularly on Omaha Campus. (Omaha and/or Lincoln faculty)

FN 540 Food Science II (Food Science or Technology 440 or 445) Lecture 2 Lab 2 PREREQ: FN 541, Organic or Biochemistry permission or instructor 3 hours

FN 850 Advanced Nutrition Lecture 3 PREREQ: Biochemistry or permission of instructor 3 hours

FN 552 Nutrition in Health and Disease Lecture 3 PREREQ: FN 550 or permission of instructor 3 hours

FN 670 Quantity Food and Equipment Lab 1 Lecture 2 Field trips 2 PREREQ: FN 670 or permission of instructor 3 hours

FN 671 Quantity Purchasing Lecture 2 Prerequisite: FN 470 and Econ 210 or permission of instructor 3 hours
JOURNALISM (JOUR)

Graduate Faculty Members:
Professor Hugh P. Cowdlin (Chairman)

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

Course Descriptions

PREREQ: 6 hours of journalism or permission of instructor
A course applying historical and theoretical perspective to current issues and developments in mass communications.

MATHMATICS (MATH)

Course Descriptions

Graduate Faculty Members:
Professor Paul A. Header
Associate Professors J. Scott Downing; Joseph A. Freivald; Margaret P. Gessman, Acting Chairwoman; Barbara Hancock; John P. Maloney; Keith P. Smith

Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. An 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.

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

a. Earn a total of 36 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 18 credit hours which carry a number of 800V or above.

c. Include mathematics courses 811M-812M, 823M-824M, and 827M 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.

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

a. Earn a total of 30 credits in mathematics.

b. Complete a thesis not to exceed 3 semester hours, which may be applied toward the 30-hour total.

c. Complete the requirements of b, c, d, and e above.

Course Descriptions

The 800J courses listed are open for graduate credit to students who do not seek an advanced degree in mathematics.
8552 Probability and Statistics I  
8543 Probability and Statistics II  
8552 Probability and Statistics I  
8543 Probability and Statistics II (II each 3 hours)
PREREQ: Math 197. First semester required for second semester enrollment.

Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, testing of statistical hypotheses, confidence intervals, linear models, nonparametric methods.

862J Elementary Topology  
854J: Theory of Analytic Functions  
854J: Theory of Analytic Functions (II) each 3 hours
PREREQ: Math 196 or equivalent mathematical maturity.

Sets and functions, metric spaces, topological spaces, continuous functions and homeomorphisms, connectedness, compactness.

864J Modern Topology  
854J: Theory of Analytic Functions (II) each 3 hours
PREREQ: Math 196 or equivalent mathematical maturity.

Axiomatic systems, finite geometries, modern foundations of Euclidean geometry, hyperbolic and other non-Euclidean geometries, projective geometry.

811M Abstract Algebra  
812M Abstract Algebra (II) each 3 hours
PREREQ: Six hours of mathematics numbered 300 or above.

Math 811M required for Math 812M.

An introduction to abstract algebra: congruence relations, groups, fields, linear transformations and matrices.

823M Mathematical Analysis  
824M Mathematical Analysis (II each) each 3 hours
PREREQ: Six hours of mathematics numbered 300 or above.

Math 823M required for Math 824M.

Semester I: Limits, continuity, differentiation and integration.

Semester II: Infinite series, power series, differentiation and integration of functions of several variables.

827M Complex Variables  
828M Advanced Calculus (II) each 3 hours
PREREQ: Math 824M or Advanced Calculus.

Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation.

829M Theory of Ordinary Differential Equations  
825M Theory of Ordinary Differential Equations 3 hours
PREREQ: Math 311 (Differential Equations) and Math 423.

Vector spaces, existence and uniqueness theorems, systems of linear equations, and two-point boundary problems.

833M Operational Mathematics  
832M Operational Mathematics (I) each 3 hours
PREREQ: Math 317.

Leipmann transform and properties, applications, inversion integral, heat conduction problems, Sturm-Liouville systems, Fourier transforms.

841M Introduction to the Foundations of Mathematics  
842M Introduction to the Foundations of Mathematics 3 hours
PREREQ: Graduate classification.

Logic, the axiomatic method, properties of axiom systems, set theory, cardinal and ordinal numbers, metamathematics, construction of the real number system, historical development of the foundations of mathematics, recent developments.

851M Theory of Numbers  
850M Theory of Numbers 3 hours
PREREQ: 3 semesters of college mathematics including 1 year of calculus.

Congruences, quadratic reciprocity, diophantine equations, continued fractions, and prime number distribution.

860M Tensor Analysis  
860M Tensor Analysis 3 hours
PREREQ: Math 311 or equivalent.

A review of vector analysis, study of bivectors and space tensors, applications to geometry and mechanics.

835V Partial Differential Equations  
835V Partial Differential Equations (II) each 3 hours
PREREQ: Math 423 and Math 311.

Linear and nonlinear first order equations, self-adjoint elliptic equations, linear integral equations, eigen-function, and boundary-value problems.

835V Theory of Analytic Functions  
835V Theory of Analytic Functions 3 hours
PREREQ: Math 423, 424, or 427. 835V needed for 836V.

Complex variable, analytic and elementary functions, complex integrals, calculus of residues, entire and meromorphic functions, normal families, and conformal mappings.
THE GRADUATE BULLETIN

P HYSICS (PHYS)

Graduate Faculty Members:
Professor John G. McMillan (chairman)
Associate Professors Raymond A. Guenther, John W. Flocken;
Assistant Professor John C. Kashef

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

Course Descriptions

801J Elements of Electronics (I, II) 3 hours
PREREQ: Math thru Trig., and Physics 112 or 212
The background of theory, operation, and practice of electronic devices and circuits, particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved.

803J Optics Laboratory (I or II) 1 hour
PREREQ: Math 156 and Physics 112 or 212
The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics.

813J Developments in Physics (1800-1950) (I or II) 1 hour
A modern physics course for science teachers at the secondary level.

813J Modern Developments in Physics (I or II) 1 hour
PREREQ: Physics 112 or 212 and Physics 311 or an equivalent modern physics course
discussion limited to topics in physics that have been discovered or extensively developed in the past 10 to 15 years. The course elaborates on topics introduced in Physics 311.

817J Modern Developments in Physics (I, II) Each 3 hours
A resume of the most important discoveries, changes and new concepts gleaned from the last decade of research in physics. Supercconductivity, lasers, masers, superfluidity, ultra large magnetic fields, space plasmas, nuclear fusion, power, etc. Designed for updating physical science concepts for science majors and for science teachers.

874J Electricity and Magnetism I (I) 3 hours
PREREQ: Calculus, Physics 212, or permission
An advanced discussion of electrostatics and magnetostatics as well as A.C. theory.
Laboratory for Electricity and Magnetism I (I) 1 hour

874J Electricity and Magnetism II (II) 3 hours
PREREQ: Physics 212
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.
Laboratory for Electricity and Magnetism II (II) 1 hour

857J Thermodynamics and Statistical Mechanics (I or II) 3 hours
PREREQ: Calculus and Physics 112 or 212
The topics of thermodynamics include various equations of state, first and second laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistics, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given.

857J Solid State (I) 3 hours
PREREQ: Calculus and Physics 112 or permission
Behavior of materials in the solid state as concerns Energy Levels, Wave Mechanics, Optical and Electrical Phenomena.

814J Modern Physics (I) 3 hours
PREREQ: Calculus and Physics 112 and 212
Recent developments concerning the nature of matter, radiation, and space including relativistic effects and the dualistic behavior of particles and waves.

Modern Physics Laboratory (I or II) 1 hour

814J Nuclear Physics (I) 3 hours
PREREQ: Calculus and General Physics 112 or 212
Methodology and principles of nuclear science, artificial and natural radioactivity, isotopes, tracer techniques, radiation health physics, reactor theory.

Nuclear Physics Laboratory (I or II) 1 hour

814J Principles of Geology (I) 3 hours
PREREQ: General Physics and/or General Chemistry
This course is designed primarily for Junior and Senior High School teachers of science, but would also benefit any elementary teacher qualified to take the course. Course content includes sections on minerals, rocks, volcanism, diastromatic, stratigraphy, gradients, ancient geology, paleoecology and structural geology.

855J Quantum Mechanics (I) 3 hours
PREREQ: Calculus, Physics 212 or permission
In this rigorous introduction to quantum mechanics the student becomes familiar with the methods of Schroedinger's wave mechanics and Heisenberg's matrix mechanics. Using these techniques the following topics are discussed: particles in potential wells, harmonic oscillator, angular momentum, hydrogen atom, time-dependent and time-independent perturbation theory and molecular bonding.

855J Problems in Physics (I, II) Each 1-3 hours
PREREQ: General Physics and permission of instructor
Individual laboratory and/or library work in some field of energy.

POLITICAL SCIENCE (POL. SCI.)

Graduate Faculty Members:
Professors H. Carl Camp (Chairman), W. C. B. Lambert, Orville D. Menard, David C. Scott, Harry W. Reynolds, Jr., William T. Utley;
Associate Professors John T. Farr, Bernard D. Kolasa;
Assistant Professors Joong-Gun Chung, James B. Johnson, Jim L. Riley

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

UNIVERSITY OF NEBRASKA AT OMAHA
Master of Arts

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

Master of Science

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

Course Descriptions

Political Science

621M The Presidency
The rise of the institution from George Washington to the present, to the position and prestige it holds and how the President uses this power and prestige to influence Congress, the courts, and the public.

3 hours

624M The Legislative Process
A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes, and behavior.

3 hours

625M The Judicial Process
This is a course in the administration of justice. It examines the Federal and State courts with respect to their powers, judicial selection, the bar, and the reform movements in the best of all of man's objectives, "The pursuit of justice."

3 hours

628M Comparative State Politics
A comparative analysis of the structure and function of American state governments. Institutional aspects will be examined, but primary emphasis will be placed on the policy determination process and the significant variables which pattern this process.

3 hours

632M Public Opinion and Political Behavior
Analysis of the political socialization process as it relates to opinion formulation and participation and the effects of this process on the operation of the political system.

3 hours

634M Constitutional Law I
The first semester of a two-semester course in American Constitutional Law. It seeks to familiarize the student with the background of the American Constitutional system, the nature of the judicial process and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System.

3 hours

636M Constitutional Law II
The second semester of the American Constitutional Law course. It focuses on the role of the United States Supreme Court in delineating and defining the political and civil rights guaranteed in the United States Constitution.

3 hours

639M International Politics of Asia
Analysis of contemporary relations among the Asian nations as well as their interactions with the great powers, emphasis on the forces and issues which influence the international system of Asia.

3 hours

641M Foreign Policy of the U.S.S.R.
A study of the foreign policy of the U.S.S.R., with emphasis on developments since 1945. Internal and external influences on Soviet foreign policy, the processes of foreign policy making, and the relations among members of the Communist bloc also will be considered.

3 hours

660M Topics in Political Science
A course in selected topics based upon analysis of the literature of political science and/or primary source materials.

3 hours
Psychology

D20V Seminar in Comparative Politics: Emerging Areas 3 hours
PREREQ: Three semester hours in public law or permission of graduate adviser.
Practical methods of research as applied to specifically selected problems in the areas of Administrative, Constitutional, and/or International Law. Problems studied will correspond to those encountered by government employees, officials, and planners at the national, state, and local levels. Emphasis will be varied from semester to semester in accordance with the backgrounds and objectives of the students enrolled.

S20V Seminar in Ta:ntative Political Theory 3 hours
PREREQ: Graduate standing with permission of instructor and department chairman.
Analysis of the theoretical frameworks advanced for the systematic study of International Relations, with application to particular problems.

BS883V-OB4V Interdisciplinary Seminar on Urban Problems: Contemporary Urban Problems 1 hour per sem. to 3 hours
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography, and Sociology.)
Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

88SV-88IV Interdisciplinary Seminar on the Urban Community 3 hours per sem. to 6
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography, and Sociology.)
An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.

980V Readings in Political Science 3 hours
PREREQ: Permission of graduate adviser.
Specially planned readings in Political Science for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is adjudged by his adviser in the Political Science Department to be capable of pursuing a highly independent course of study.

989 Thesis 1-8 hours
PREREQ: Permission of graduate adviser.
A research project, written under the supervision of a graduate adviser in the department of Political Science, in which the student establishes his capacity to design, conduct, and complete an independent, scholarly investigation. The research topic and the completed project must be approved by the student's departmental committee.

University of Nebraska at Omaha

Psychology (PSY)

Graduate Faculty Members:
Profeffors Carol Angle, Gordon Becker, Robert Ellingson, Francis Hurst, Gilbert Meier, John Newton (Chairman), D. T. Pedrini, James Williams;
Associate Professors Kenneth Daffensbacher, Norman Hamm, Shelton Hendricks, Clemm Kessler, Joseph LaVoie, C. Raymond Millimet, Fred Strider, Richard Wikoff;
Assistant Professors: Kenneth Berry, Evan Brown, Deanna Finkler, Alan Fix, Gordon Hansen, Robert Innes, Richard Kohlan, Gary Larsen, Robert LoPresti, William Wood

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing. Students who do not meet the above requirements may be provisionally admitted following the Graduate Studies policy.

Master of Arts

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

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

I. A. Psychology 994 (Proseminar in Learning)
B. Psychology 986 (Proseminar in Development)
II. A. Psychology 991 (Proseminar in Perception)
B. Psychology 992 (Proseminar in Physiological Psychology)
III. A. Psychology 906 (Proseminar in Analysis of Variance)
B. Psychology 911 (Proseminar in Factor Analysis)
IV. A. Psychology 943 (Proseminar in Personality)
B. Psychology 944 (Proseminar in Social Psychology)

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

The remainder of the student's course work is elective, but must be planned in conference with his academic adviser, in order to meet the individual needs and interests. The student may emphasize one of the following areas: educational, general-experimental, physiological, industrial, quantitative, personality, social, or child psychology. Final determination of a student's plan of study always resides with his adviser and the department. To meet the graduate college 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 industrial psychology or the M.S. with a major in educational psychology, the student must present 24 hours of graduate course work in psychology plus 24 hours in psychology plus 12 hours in a related minor field. The M.S. degree has the same proseminar requirement as the M.A., and all rules concerning proseminar courses 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 adviser and the department. To meet the graduate studies requirements a student must take at least half of his work in courses which are open only to graduate students.

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, experimental child, and school psychology, and in developmental psychobiology. Students may be considered for admission to a doctoral program if they are doing excellent work toward the M.A. or have completed that degree. There is no generally specified language or research skill requirement, but each student is expected to demonstrate proficiency in languages, research skills, or knowledge in collateral research areas appropriate for his research interests as determined by his Supervisory Committee and the departmental Graduate Committee. Specific requirements as of a graduate course work in psychology, enter in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

Special Programs Leading to Certification in School Psychological Services

Psychological Assistant

Students who are pursing work toward the M.A. or M.S. in educational psychology may simultaneously complete requirements for endorsement in Nebraska as a Psychological Assistant. 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 855V or 854V. 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 897V. Also, one of the following is required: Psychology 859M (459), 855M (455), SPED 806V, or SPED 860M (460). The student must also have had course work in both learning and developmental psychology.

School Psychologist

Students holding Master's degrees may be admitted to do additional work leading to recommendation for certification as a school psychologist if they show promise of ability to succeed beyond the Master's level. Application for such admission must be filed with the Psychology Department, accompanied by a vita including names of three individuals willing to write reference letters. Students who have not been admitted to Graduate Studies for their Master's degree program must also apply to the Director of Admissions and supply two official transcripts of all previous college work and scores for the Graduate Record Examination Aptitude Test and Psychology Test. Before a final decision is made concerning admission, the applicant must be interviewed by the Chairman and one or more members of the Department of Psychology. If the applicant has not completed a Master's program equivalent to that required for the Master of Science in Educational Psychology, he may be required either to take additional graduate courses or to complete successfully a six-hour qualifying examination in general and educational psychology.

A total of 30 semester hours of work beyond the Master's is required for the recommendation. These 30 hours must be taken after the applicant has been accepted into the program and received the Master's degree. No more than three hours of practicum credit may be taken during any one semester. For certification of school psychologists, many states require teaching certification or two years of professional work experience in the schools.

Filing of an acceptable plan of study with the graduate office will be required on admission to the program. Students will arrange their programs according to the subject matter areas below. It is expected that some of these required courses will have been taken as part of the Master's program (or, in some cases, an undergraduate program). In this event, other course work in psychology or education may be elected to make a total of 30 semester hours. All required courses must be completed, however, even if the total exceeds 30 hours of post-master's work. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of elective courses. However, final decision on the appropriateness of a program rests with the Psychology Department.

I. Required Sources in Psychological Methods

| Psychology 831M (or 431) Psychological and Educational Testing |
| Psychology 855V The Profession of Psychology |
| Psychology 850V Individual Tests I |
| Psychology 854V Individual Tests II |
| Psychology 851V Advanced Educational Psychology |
| Psychology 852C Personality Assessment |
| Psychology 970 Topical Seminar in School Psychology (3-9 hours) |
| Psychology 997 Practicum in School Psychology |

One of the following two courses:

Psych 853V Introduction to Therapeutic Techniques with Children
Psych 857V Behavior Modification

One of the following four courses

Psych 855M (or 455) Retardation
Psych 850M (or 459) Psychology of Exceptional Children
SPED 806V Teaching the Exceptional Child
SPED 860M (or 460) Introduction to the Mentally Subnormal Child

II. Required Professional Education Courses

| COUN 825V Counseling Practices |
| EDAD 830V Foundations of Educational Administration and Supervision |
| SED 833V Emerging School Curriculum |

III. Required Supporting Work

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

901M History of Psychology
PREREQ: Permission of instructor
A study through reading and discussion of the significant individual contributors and the contributions to the growth of psychology.

903M Psychology of Motivation
PREREQ: Psychology 213, 301, or 394
An exploration of the motivation of organisms including methods, concepts, issues, and theories derived from historical and contemporary research.

905M Computer Concepts in Psychology and the Behavioral Sciences
PREREQ: Psychology 213 (or equivalent)
An introductory course emphasizing the applications of computers in the areas of psychology, sociology, and education. Includes a functional description of computers and a discussion of programming languages as well as specific uses.

906M Environmental Psychology
PREREQ: Psychology 101 or permission
A study of effects of natural and artificial environments on human behavior. Particular emphasis on effects of spatial arrangements and their interactions with social distance, territoriality, privacy and such.

907M Cognitive Processes
PREREQ: Psychology 301 or 394
An exploration of historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, creativity, memory, and symbolic behavior.

913M Research Design
PREREQ: Psychology 213 (or equivalent)
A methodological approach to research in the behavioral sciences emphasizing the manipulation of psychological variables leading to the control and understanding of psychological phenomena.

914M Nonparametric Statistics
PREREQ: Psychology 213 (or equivalent)
A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in the social behavior sciences.

927M Animal Behavior (Same as Biology 227M)
PREREQ: Psychology 101 and Biology 175 or permission
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.

931M Psychological and Educational Testing
PREREQ: Psychology 101 or 362 or 351
The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity.

933M Individual Differences
PREREQ: 9 hours of psychology, including Psychology 101 and Psychology 213 (or equivalent)
A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in causation of individual differences in mental traits.

943M Psychoanalytic Theories of Personality
PREREQ: Psychology 213 (or equivalent)
An integrative course designed to acquaint the student with the Freudian and psychoanalytic viewpoints. Research in anxiety, defense mechanisms, sleep, and dreams is emphasized.

944M Abnormal Psychology
PREREQ: Psychology 343 and Psychology 213 (or equivalent)
A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy, and prognosis of syndromes are considered. A research approach is emphasized.

945M Personality Theories
PREREQ: Psychology 343 and senior standing or permission
A comparative approach to the understanding of personality theory emphasizing the conflict, fulfillment, and consistency approaches to personality.

947M Advanced Counseling Theory
PREREQ: Psychology 343 or Cogn 830V or Psychology 845M
This course emphasizes the relationship between diagnosis and treatment with a Jungian approach embracing psychology, literature, philosophy, and theology. Readings are emphasized.

852M Psychological Aspects of Industrial Training and Education
3 hours
PREREQ: Psychology 302 and Psychology 213 (or equivalent)
A study and application of the theory, techniques, and procedures involved in preparing individuals for their jobs through training and education.

852M Techniques of Programmed Instruction
PREREQ: Psychology 101 and permission of instructor
3 hours
A study and application of the theory, techniques, and procedures involved in preparing individuals for their jobs through training and education.

851M Research Problems in Physiological Psychology
3 hours
PREREQ: Psychology 362 and permission of instructor
An individualized introduction to the techniques and methodology used in the physiological psychology laboratory.

860V The Profession of Psychology
PREREQ: none
6 hours
A required non-credit course for graduate students in psychology. Intended to familiarize the beginning graduate student with the profession of psychology including such topics as ethics, professional organizations, job and educational opportunities, the use of reference materials, licensing and certification, and other relevant material.

853V Seminar in Social Psychology (Same as Sociology 853V)
3 hours
PREREQ: Graduate and permission of instructor
An introduction to methods in the construction of individual work leading to the writing and presentation of a paper applicable to a general topic in social psychology selected by the instructor.

859V Introduction to Counseling Theories (Same as Cogn 859V)
3 hours
PREREQ: Education 890M or department permission
Study of contemporary theories of counseling, the counseling process and methods.
901V Tests and Measurements 3 hours
PREREQ: Psychology 213 (or equivalent)
A study of the theoretical and practical problems related to the development and use of psychological tests covering such topics as measurement, test development, standardization, reliability, validity, and interpretation.

905V Seminar in Communication Theory (Same as Speech 605V) 3 hours
PREREQ: Psychology 213 (or equivalent) or permission of instructor
Analysis of current approaches to the study of communication with emphasis on theoretical models and their application to various professional interests.

901V Advanced Educational Psychology 3 hours
PREREQ: Psychology 351
A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those problems existing in the classroom.

905V Individual Tests I 3 hours
PREREQ: 16 graduate hours of psychology including completion of all required courses for the Master's degree and Psychology 431 (RSMO or S2V and admission to either Psychological Assistant or School Psychologist Program).
Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing.

905V Introduction to Therapeutic Techniques with Children 3 hours
PREREQ: Permission of instructor
The purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The history and methods of and the research with play therapy are considered.

905V Learning in Children 3 hours
PREREQ: none
A course dealing with learning in infants, children and, for comparison purposes, adults. Research relevant to developmental differences in learning ability will be emphasized. Content areas included will be learning methodology with infants and children, learning in infancy, probability learning, transposition and reversal shift learning, imprinting, habituation and imitation learning.

905V Behavior Modification 3 hours
PREREQ: Psychology 362 and 363, or permission of instructor
A course in the techniques, rationale, and research literature of changing behavior through reinforcement procedures. Particular attention will be paid to children's behavior including retarded children. Behavioral problems in school and the behavior of the mentally disturbed.

905V Linguistic and Cognitive Development 3 hours
PREREQ: Psychology 352 (or equivalent) or permission of instructor
An advanced, in depth study of the theory and research on cognitive and linguistic development from infancy to adolescence.

905V Social and Personality Development 3 hours
PREREQ: none
A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Research methods and theory, as they apply to social and personality development, will be emphasized throughout the course. All students will be expected to design and conduct a mini-observational study in the area of social and personality development.

688V Clinical Child Psychology for School Psychologists 2 hours
PREREQ: Permission (Cross-listed with Psychiatry 68 at the University of Nebraska College of Medicine)
An advanced course in child psychology, with emphasis upon diagnostic classification, refinement of approaches and techniques of assessment, and correction of problem behavior in the school age child.

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954 Proseminar: Social Psychology (Becker, Kesler) 3 hours
PREREQ: Permission of instructor
Examination of theories, research findings and controversies in Social Psychology. Topics will include socialization, person perception, personal attraction; leadership and group effectiveness; attitudes, attitude measurement, and attitude change; intergroup relations; power and social influence. New topics will be added as they become part of the research interests of social psychologist.

955 Experimental Social Psychology (Becker, Kesler) 4 hours
PREREQ: Psychology 213 (or equivalent), 345, 301 or 321 with laboratory, and permission of instructor
Acquisition of basic research skills and a working understanding of key philosophical and methodological issues in social studies, either by himself or as a part of a small group.

956 Proseminar: Development Psychology (Hamm, Feiler) 2 hours
PREREQ: Permission of instructor
A discussion of specific advanced topics which will be announced whenever the course is offered.

965 Seminar in Experimental Child Psychology (Hamm) 3-6 hours
PREREQ: completion of the proseminar sequence (20 hours) and permission of instructor
Faculty and student presentations organized around one of the following three major subdivisions of child psychology: (1) social and personality development, (2) developmental changes in conditioning and learning, (3) cognitive growth and functioning. The course may be repeated each time a different topic is covered, up to a maximum total of 9 credit hours.

966 Seminar in Industrial Psychology (Kessler) 3 hours
PREREQ: Psychology 212 (or equivalent)
Intensive study of current problems and research in psychology in industry with particular emphasis on integration of research findings.

967 Personnel Selection and Assessment (Kessler) 3 hours
PREREQ: Psychology 213 (or equivalent), Psychology 832V and permission of instructor
A practical course designed to familiarize the student with the procedures used in assessing and selecting people for industrial positions.

978 Topical Seminar in School Psychology (Hamm, Pedrini, Strider, Wikoff) 1-6 hours
PREREQ: admission to school psychology program
A discussion of a specific advanced topic in school psychology which will be announced whenever the course is offered.

995 Research Other Than Thesis (Becker, Defenbach, Ellinson, Hamm, Hendricks, Kesler, Mulliken, Newton, Pedrini, Strider, Wikoff, Williams) 1-3 hours
PREREQ: permission of instructor
A discussion of specific advanced topics which will be announced whenever the course is offered.

996 Research Other Than Thesis (Becker, Defenbach, Ellinson, Hamm, Hendricks, Kesler, Mulliken, Newton, Pedrini, Strider, Wikoff, Williams) 1-12 hours
PREREQ: Enrollment in a graduate program beyond the master's degree level and permission of the department
Research work under supervision of a faculty member. May be repeated for up to a total of 12 credit hours.

997 Practicum in School Psychology (Hamm, Pedrini, Strider, Wikoff) 1-6 hours
PREREQ: Admission to school psychology program and written permission of department
A practical course designed to acquaint the student with the practical problems faced by school psychologists.

University of Nebraska at Omaha

PUBLIC ADMINISTRATION (PA)

Graduate Faculty Members:
Professors Harry W. Reynolds, David C. Scott (Chairman)

MASTER OF PUBLIC ADMINISTRATION

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

Administrators are required for a wide variety of governmental programs and students in the M.P.A. program will likely come from widely differing backgrounds. Some may come from current public employment while others may enter with degrees in the social sciences, engineering, business administration, or the humanities.

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

For a student to be admitted unconditionally to the M.P.A. program he must have completed as prerequisites three semester credits in each of the following: Introduction to Public Administration, Urban Government, accounting, and statistics. In addition, if the student's undergraduate preparation in 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 semester hours of course work are required, plus six hours of internship in a public agency for 8 to 12 months. The internship may be waived and up to six hours credit granted for service in civilian public or semi-public agencies. Requests to waive the internship shall be submitted to a departmental committee for approval. In lieu of the internship in such cases the committee may require additional course work or a thesis.

A core of eight required courses shall be completed plus six credit hours from a specified list of optional courses. The required courses include, but are not necessarily restricted to, Political Science 800V; Public Administration 840M, 841M, 842V, 844V, 846V, and Economics 855M. The optional courses may be selected from Political Science 883V, 884V; Public Administration 843M, 845M, 848V, 861V, Economics 880M, 816V, 822V, 885V, 886V; and Geography 812M, 890M, 893M. It is possible in exceptional circumstances for up to six credit hours of optional courses to be substituted for certain required courses. Such substitutions require approval of a student's adviser.

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

A comprehensive final examination both written and oral is required.

Public Administration

840M Public Budgeting 3 hours
A study of the processes and procedures involved in making budgets for governmental institutions.

841M Public Personnel Management 3 hours
A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.
SECON~ARY POST-SECONDARY EDUCATION (SED)

Graduate Faculty Members:
Professors Paul Ackerson, Dale M. Bunsen, Edward J. Sadler, Raymond A. Ziebarth (Chairman);
Associate Professors M. Jean Bressler, Donald J. Grandgenett
Assistant Professor Michael J. Rockler

Major in Secondary Education

Programs in Secondary Education are developed on an individual basis by the student and his adviser. They are designed to extend academic background the instructional skills of secondary school teachers.
Students who seek the Master of Science Degree must take a written Comprehensive Examination. This examination may not be taken earlier than the semester or summer session in which the last course of the program of studies will be completed. Registration for this examination must be made with the Department not later than the end of the seventh week of the semester in which the examination will be taken. If the examination is to be taken during the summer, registration must be completed by the end of the second week of the first summer session.

Course Descriptions

805M Principles of Vocational Education 3 hours
A study of the basic philosophy underlying vocational education and the principles and practices in the various fields.

854M Coordinating Techniques for Vocational Education 3 hours
Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator and/or vocational coordinator, with emphasis on local administration of the part-time cooperative program and analysis of the laws and regulations governing this program.

860V Special Studies 1-3 hours
A series of intensive courses especially for teachers in service-scheduled as regular seminars, or workshops, according to purpose.

814V Research Project 1-3 hours
Individual or group study and analysis of specific problems in schools. Topics may include surveys, school finances, transportation, and school building construction, maintenance and operation, curriculum and pupil personnel.

831V Practicum Teaching-Community and Junior College 3 hours
The Practicum Experience is intended for graduate students who may desire to become instructors at the Community or Junior College level. The eligible student will be placed in a practicum situation in a recognized teaching field under the supervision of a certified Community or Junior College instructor and a faculty supervisor from the College of Education.

829V Seminar for Cooperating Teachers 3 hours
A seminar for cooperating and prospective cooperating teachers. Discussion of problems, trends, research and evaluation of student teachers and student aids in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.

825V Seminar in Secondary Education 3 hours
Intensive study of problems of secondary education. Critical analysis of current research and related literatures; group and individual work on problems of group interest and relevance to secondary education.

830V Emerging School Curriculum 3 hours
Designed to provide the student with understanding of the nature and principles trends in secondary school curriculum development and practices in curriculum planning. Strong emphasis is placed on opportunities for improvement of instruction in such languages, but will concentrate on current developments in audio-lingual-visual programs that have implications for the classroom teacher.

840V Improvement of Instruction of Secondary School English: Language 3 hours
Exploration of the implications of recent research in language and linguistics to instructional improvement in the teaching of English.

841V Improvement of Instruction of Secondary School English: Literature 3 hours
Exploration of the implications of recent research in the teaching of literature to instructional improvement in the secondary school classroom.

845V Improvement of Instruction of Secondary School Social Studies 3 hours
Designed especially for teachers who are interested in the improvement of instruction of the social studies. Will encompass the whole range of opportunities available for the improvement of social studies instruction; emphasis will be concentrated on current developments that have implications for the classroom teacher.

847V Materials Laboratory for the Social Studies 3 hours
Designed to acquaint social studies teachers with new materials in the Social Studies. Students will develop criteria for the evaluation of materials from recent curriculum projects.

849V Seminar in Social Studies Curriculum Construction 3 hours
This course is designed for social studies supervisors, department chairmen, team leaders and teachers who are interested in learning to design and construct curricula for the social studies.

850V Improvement of Instruction of Secondary School Mathematics 3 hours
This course is designed for those students who wish to extend their knowledge of the secondary school mathematics curriculum and their skill in employing instructional techniques for teaching mathematics. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.

852V Foundations in Business Education 3 hours
Designed to develop a deeper and broader understanding of business education; to identify and define business education and to examine its past, present, and future role in the total education pattern of our society.

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

856V Improvement of Instruction of Secondary School BSCS Biology (yellow) 3 hours
A graduate course for biology teachers which reviews the content, history, methodology, materials, and philosophical background of BSCS Biology (Yellow Version).

857V Improvement of Instruction of Secondary School BSCS Biology (green) 3 hours
A graduate course in science education which reviews the history, content, methodology, materials, and philosophical background of BSCS Biology (Green Version). A continuation and extension of the concepts considered in SED 860V.

858V Improvement of Instruction of Science, Earth Science Curriculum Project 3 hours
A graduate course in science education which reviews the content, methodology, materials, and philosophical background of the Earth Science Curriculum Project.

859V Science Education Seminar 3 hours
A graduate seminar in K-12 science education emphasizing research, newly developed science curricula, curriculum planning, science supervision, treatment of one or more localized science education issues.

876V Improvement of Instruction in Science, Earth Science Curriculum Project 3 hours
A continuation and extension of the concepts considered in SED 862V.

878V Improvement of Instruction in Secondary School Business Education 3 hours
A course designed for teachers of business education to provide information, methods, and techniques in business education.
Social Work is one of the "helping professions" concerned with the quality of human life. Specifically, the social worker is concerned with man's ability to function meaningfully and effectively in transaction with his environment (i.e., his family, friends, associates, and the community at large). The social worker brings systemized knowledge to bear on his dealings with individuals, in families, in other groups and collective associations, with communities, societies, and organizations, with a view to helping in the resolution of problems which cause stress in social transaction.

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

Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence. The entire program requires a minimum of two full academic years.
2. A minimum of 55 credit hours in graduate social work study, of which:
   (a) Not less than 25 hours of approved courses must have been completed in the University of Nebraska.
   (b) Not less than 14 hours must be in field work.
   (c) All courses must be approved by the School for each individual.
   (d) Five hours may be selected in academic graduate courses outside the Graduate School of Social Work.

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3. An approved individual or group research project written in the course of the second-year research seminar, or its equivalent.

The course leading to a Master of Social Work degree normally requires four semesters of full-time study.

There are two types of courses:
1. "Core" courses, which are required of all students.
2. "Effective" courses, chosen by students in addition to required core courses.

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

The total number of credit units required is a minimum of 55 credit hours; they may be distributed as follows:

Requirements for the Degree of Master of Social Work

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Core</th>
<th>Elective</th>
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<tr>
<td>Social Work Practice I (SW 830)</td>
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<td>Practicum I (SW 841)</td>
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<td>Human Behavior &amp; Social Environment I (SW 820)</td>
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<td>Social Welfare Policy &amp; Services I (SW 861)</td>
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<td>Spring Semester</td>
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<td>Social Work Practice II (SW 831)</td>
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<td>Practicum II (SW 842)</td>
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<td>Human Behavior &amp; Social Environment II (SW 821)</td>
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<td>Social Welfare Policy &amp; Services II (SW 850)</td>
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<td>Research Methods in Social Work (SW 883)</td>
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<td>2nd Year Program</td>
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<td>Micro Intervention I (SW 912)</td>
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<td>Practicum III (SW 997A)</td>
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<td>Community Planning &amp; Organization (SW 975)</td>
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<td>Administration in Social Work (SW 982)</td>
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<td>Supervision in Social Work (SW 964)</td>
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<td>Research Other than Thesis (SW 955)</td>
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<td>Special Studies in Social Welfare (SW 965)</td>
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<td>Master's Thesis (SW 969)</td>
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<td>Spring Semester</td>
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<td>Micro Intervention II (SW 914)</td>
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<td>Advanced Seminar in Social Work Practice (SW 969)</td>
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<td>Practicum IV (SW 997B)</td>
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<td>Research Other than Thesis (SW 960)</td>
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<td>Social Work Practice in Child Welfare (SW 919)</td>
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<td>Delinquency and Its Treatment (SW 953)</td>
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<td>Special Studies in Social Welfare (SW 963)</td>
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<td>Master's Thesis (SW 969)</td>
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Courses of Instruction

Human Behavior and the Social Environment—Graduate

620 Human Behavior and the Social Environment I (4 cr) (Required)
PREREQ: Graduate standing or permission
A bio-psychosocial approach to human development and functioning. Consideration will be given to the interaction of affective, cognitive, social, and physical factors in human development and functioning.

621 Human Behavior and the Social Environment II (4 cr) (Required)
(Course description the same as above) Continuation
Social Welfare Policy and Services—Graduate

851 Social Welfare Policy and Services I (2 cr) (Required)
PREREQ: Graduate standing or permission
Traces 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 impact and effectiveness of selected social welfare policies and programs, especially those related to income maintenance and the problem of poverty. Special attention is given to the role of social work in assessing and modifying social policy and programs.

852 Social Welfare Policy and Services II (2 cr) (Required)
PREREQ: S.W. 851, Graduate standing
This course builds on S.W. 851 and involves the development of specific criteria for analysis of social welfare policies and service.

Social Work Practice—Graduate

830 Social Work Practice I (4 cr) (Required)
Parallel: SW 841 or permission
Consideration is given to professional social work practice and its place within society by study of the history of its development, theoretical knowledge, and its philosophical base. Conceptualization, principles, and theories which undergird its practice are developed plus conscious application of social work theory to specific example derived from social work practice.

831 Social Work Practice II (3-4) (Required)
PREREQ: SW 830 or permission
Consideration of the common base of social work practice with emphasis on the assessment of social situations leading to choice of intervention action from a variety of intervention approaches. The social worker's role as the change agent in this process is developed through continuous application of basic social work practice theory as utilized with individual, group, organizational, and community client systems.

832 Social Work Practice III (3-4) (Required)
PREREQ: SW 830 or permission
Supervised individual research for second year students taking the thesis alternative to meet research requirements for the degree of Master of Social Work. Individual research projects for second year students taking this alternative to meet research requirements for the degree of Master of Social Work. Attention at regular seminars may be required.

833 Research Methods in Social Work (2 cr) (Required)
PREREQ: Permission of director and instructor
Collection, analysis, and presentation of social welfare data, including only the commonly used statistical devices; general types and methods of research utilized in social welfare agencies. Research in relation to agency administration; sources of support for social research.

834 Master's Thesis (6-10 cr) (Elective)
PREREQ: SW 883 or equivalent
Supervised individual research for second year students taking the thesis alternative to meet research requirements for the degree of Master of Social Work, with an emphasis on utilization of research in social work practice. Social and behavioral science research will be evaluated; major concepts, principles, theories, and approaches to understanding and working with people will be explored. Experimental use in practice will be critically assessed.

Practicum (Field Instruction)

841 Social Work Practicum I (3-4 cr) Staff and Assistants in Field Instruction (Required)
Parallel: SW 830 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

842 Social Work Practicum II (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 841 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

843 Social Work Practicum III (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 842 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

844 Social Work Practicum IV (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 843 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

Special Studies—Graduate

850 Special Studies I (3-4 cr) (Elective)
PREREQ: Graduate standing and permission
Special studies in selected areas of social work curriculum.
Graduate Faculty Members:
Professors George Barger (Chairman), Wayne Wheeler;
Associate Professor John R. Nye;
Assistant Professors William T. Clute, Elaine Hess, Merlin I. Hofstetter,
Mark O. Rousseau, Robert B. Simpson

Applicants for admission to the graduate program in sociology must present a minimum of 13 undergraduate semester hours in sociology including a course in statistics and research methods. Those students lacking either will be required to make up this deficiency during their first year of graduate study.

Examinations: Both the M.A. and M.S. (see below) degree programs with majors in sociology require the incoming student to complete an examination covering basic concepts and theorists 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 comprehensives—Social Theory, and Methodology and Statistics—are required of all graduate students; the two remaining examinations are selected by the student, in consultation with his graduate adviser, from a list available through the Sociology Office. The examinations are given a minimum of twice annually, and other times as required. Detailed explanations of graduate requirements should be secured through the Sociology Office.

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

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

Master of Science with a Major in Applied Sociology
A student contemplating this degree is expected to complete Sociology 801V and a minimum of 27 additional graduate semester hours, at least nine of which are from the 800V-level selection. In addition, the student must complete satisfactorily six semester-hour equivalents of a supervised work practicum related to his academic area of concentration, and write an acceptable report on the experience.

Detailed requirements for the M.S. degree with a major in applied sociology should be secured through consultation with the Sociology Office.

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

Course Descriptions

Anthropology

021M Cultural Anthropology
PREREQ: Graduate standing and permission
Family, art, war, maintenance, prestige, religion approached as parts of an integrated whole, a way of life of preliterate human society. Illustrations from a number of simple societies, anthropological theories, methods of study.

022M North American Archeology
PREREQ: Graduate standing and permission
American Indian culture history in North America, with emphasis on the peopling of the New World, origin and development of New World agriculture, and human development of Middle American Civilizations and their impact on core areas of village-farming in the continental United States; introduction to archaeological investigation techniques, dating methods, and taxonomic concepts.

023M Psycholinguistics
(Same as Psychology 425M and Speech 425M)
PREREQ: Graduate standing and permission
A discussion of the literature concerned with the relationship of psychological abilities as perception, learning, memory, and development to the linguistic variables of sentence structure, meaning, and speech sounds.

024M Seminar in Anthropological Problems
PREREQ: Graduate and permission
A course designed to allow students to pursue individual interests in various aspects of anthropology. Work with the instructor in preparing a thesis designed to increase the student's depth of knowledge in individual areas.

Sociology

081M Social Control of Behavior
PREREQ: Graduate standing and permission
The study of the processes by which the person's behavior is adapted to the social group. External restrains, roles, self-control. Analysis and measurement of behavior in the context of socially defined "fields."

082M Collective Behavior
PREREQ: Graduate standing and permission
The study of the processes of growth and change within unstable and transitory groups, including crowds and associated phenomena, diffuse collectivest, advertising and propaganda aggregates in mass society, publics, and social movements.

083M Advanced General Sociology
PREREQ: Graduate standing and permission
Not open to anyone who has recent credit in Sociology 101. (Does NOT CARRY GRADUATE CREDIT IN SOCIOLOGY)
A survey of the principles of sociology including interaction, groups, institutions, social organization, and change. Consideration is also given to sociological techniques, major specialties, and classes of data.

084M The Community
PREREQ: Graduate standing and permission
A basic course in community sociology. Sociological theory and the techniques of empirical research are applied to published studies of communities in the United States and elsewhere. Sociology of the family is also considered.

085M Applied Social Gerontology
PREREQ: Graduate standing and permission
An introduction to social gerontology with special emphasis upon the effects of aging on social institutions and social participation and an examination of practice-oriented implications.

086M Urban Geography (Same as Geography 413)
PREREQ: Graduate standing and permission
A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities.

087M Sociology of Deviant Behavior
PREREQ: Graduate standing and permission
A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of conventional behavior as expressed in law and norms.
814M Urban Sociology (Same as Geog, 814M)  
PREREQ: Graduate standing and permission  
A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.

815M American Family Problems  
PREREQ: Graduate and permission  
I. A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. II. An analysis of failures of function and attendant problems in a variety of American families: parent-youth tension, problems of sexual adjustment, role conflicts, multi-problem families, desertion, divorce, others.

851M The Craft of Sociology  
PREREQ: Graduate standing and permission  
Sociology major seminar integrating prior learning, and covering contemporary sociological theories, research methods, theory-building strategies, practical applications, moral implications, various views on professional goals, and technical writing skills. Graduate students will be expected to write their term papers as if they were submitting the papers to a professional journal.

853M Seminar in Cross Cultural Communication (Same as Speech 853M)  
PREREQ: Admission to graduate study and permission  
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.

862M Sociology of Formal Organizations  
PREREQ: Graduate standing and permission  
Analysis of social structure in formal organizations, processes involved in the integration and disintegration of formal social organizations. An introduction to organizational analysis in medical, military, governmental, educational, and business settings. Implications of large-scale integration and disintegration for human behavior.

871M Development of Sociological Theory  
PREREQ: Graduate standing and permission  
An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stresses placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although background to these are traced to their ancient and medieval antecedents where applicable.

872M Contemporary Sociological Theory  
PREREQ: Graduate standing and permission  
A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and theory with shorter descriptive presentations of alternative positions indicating similarities and differences. Principles of theory construction and a review of major sociological concepts and writers.

873M Social Change  
PREREQ: Graduate standing and permission  
A discussion of the theories and the basic models of social change illustrated by use of examples from contemporary social problems. Emphasis is placed upon understanding causes and effects of social processes current in American society and the response of the individual to these.

875M Sociology of Religion  
PREREQ: Graduate standing and permission  
Analysis of religious behaviors from a sociological and social-psychological perspective and utilizing both theoretical materials. The class is designed as an introductory approach to the sociology of religion, and the first in a two-step sequence, undergraduate and graduate.

895M Independent Study  
PREREQ: Graduate standing and permission  
Guided reading in special topics under the supervision of a faculty member.

891V General Seminar in Sociology  
PREREQ: Graduate standing and permission  
This seminar required of departmental graduate students, gives a basic orientation to the discipline, including its leading figures, publications, and teaching techniques. It involves critical discussion of issues in the discipline and selected substantive problems of sociology.

895V Seminar in Social Psychology (Same as Psych 895V)  
PREREQ: Graduate standing and permission  
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social psychology selected by the instructor.

891V Seminar in Applications of Sociology  
PREREQ: Graduate standing and permission  
Sociological theory and method applied to a practical problem of relevance to current social issues.

891V Social Problems of the Disadvantaged  
PREREQ: Graduate standing and permission  
A survey of the social problems existing in disadvantaged communities. The effects upon individuals of such settings. The subculture of poverty.

892V Seminar in Social Gerontology  
PREREQ: Graduate standing and permission  
An interdisciplinary, developmental study of the impact of aging upon individuals and society, including the interaction of individual and society to aging and to particular emphasis given to changes during the last half of the life cycle (45-55 years). Both theoretical and programmatic implications of aging research and public policy.

895V Seminar in Research Methods  
PREREQ: Graduate standing and permission  
A complete research project carried out under the supervision of an instructor particularly qualified in the area of concern. Students will prepare the background work, question formulation, selection of (or construction of) test instruments, data gathering by methods such as interviewing and participant observation, and analysis.

895V Seminar in the Sociology of Religion  
PREREQ: Graduate standing and permission  
A seminar dealing with religion as a social and cultural phenomenon. The study theme will vary from time to time in keeping with the special interests of the instructor.

895V Seminar in Social Organization  
PREREQ: Graduate standing and permission  
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social organization selected by the instructor.

895V Seminar in Occupations and Professions  
PREREQ: Graduate standing and permission  
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociology selected by the instructor.

897V Seminar in Sociological Theory  
PREREQ: Graduate standing and permission  
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological theory selected by the instructor.

897V Population Seminar (Same as Geog. 897V)  
PREREQ: Permission  
The significance of differences from place to place in the number, kind, and quality of human inhabitants and changes through time.

* As seminar topics change, these course numbers may be repeated in a student's program without implying duplication.
110 THE GRADUATE BULLETIN

880V Independent Study in Topics on Urbanism (Same as Geog. 880V & Econ. 880V) 1-3 hours
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences and permission.
Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

885V-886V Interdisciplinary Seminar on the Urban Community 2-6 hours
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences and permission. (Also listed under Economics, Geography, and Political Science.) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.

895V-896V Seminar in Urban Economics
PREREQ: Graduate standing or permission of instructor.
An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution.

940 Seminar in Small Group Communication (J. Brillhart) 3 hours
PREREQ: Speech 801V or equivalent, or basic statistics, or permission of the instructor.
Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Cross-listed with Speech and Psychology)

SPECIAL EDUCATION (SPED)

Graduate Faculty Members:
Professors Donald Cushenbery, Aaron Armfield (Chairman), James M. Wood;
Associate Professors James Akers, Roger Harvey, William Callahan;
Assistant Professors Kathleen McKenney, Leonard Cloninger, Kenneth Gilreath;
Graduate Lecturers Craig Fullerton, Edward LaCrosse

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 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-six semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents: SPED 341, Introduction to Communication Disorders; SPED 437, Basic Audiology; SPED 438, Auditory and Speech Mechanics; SPED 442, Psychology of Speech; SPED 444, Speech Path II: Rhythm and Symbolization; SPED 445, Speech Path I: Voice and

* As seminar topics change, these course numbers may be repeated in a student's program without implying duplication.

University of Nebraska at Omaha

Articulation; SPED 433, Speech Reading and Auditory Training; SPED 445, Phonetics; SPED 450, Speech Correction in the Elementary and Secondary Schools; SPED 475, Language Development of Exceptional Children.

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

4. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:

I. Required Courses

FED 801V Introduction to Research
SPED 853V Advanced Problems
SPED 870V Seminar in Special Education
SPED 846V Speech Evaluation
SPED 848V Advanced Audiology

II. Elective Courses

Students may choose any of the courses in the area numbered 800V or above.

5. Thesis:

Students must present a thesis representing six semester hours of work and which is deemed satisfactory to 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 with a major in Mental Retardation must be approved by the Dean for Graduate Studies and the major adviser.

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

3. Students may undergo course work which will lead to:

a. a major of 24 hours in mental retardation.

b. a thesis not to exceed six semester hours.

OR:

a. a major of 15 semester hours in mental retardation.

b. a minor of nine semester hours in a related field of interest.

c. a thesis not to exceed six semester hours.

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

6. Subject to review of the applicants transcripts and related experiences with retarded children, required courses may be selected from the following:
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.

I. Required Courses
   a. Required Courses:
      FED 801V Introduction to Research
      SPED 870V Seminar in Special Education
      SPED 872U Practicum in Special Education
      SPED 889V Thesis
   b. Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.

Master of Science

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.

I. Required Courses
   a. Required Courses:
      FED 801V Introduction to Research
      SPED 870V Seminar in Special Education
      SPED 872U Practicum in Special Education
      SPED 889V Thesis
   b. Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.

II. Related Professional Courses
   Including Introduction to Research and selected work in such areas as foundation and general education, elementary education, secondary education, special education, and psychology.

III. Related Cognate Courses
   Including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II.

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 proficiencies and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)
2. Have successfully completed a minimum of thirty-two semester hours of preparatory work to admittance to the major. These hours are to include the following courses or their equivalents: SPED 341, Introduction to Communication Disorders; SPED 438, Speech Reading and Auditory Training; SPED 437, Basic Audiology; SPED 438, Auditory and Speech Mechanisms; SPED 442, Psychology of Speech; SPED 443, Speech Pathology I: Voice and Articulation; SPED 444, Speech Pathology II: Rhythm and Symbolization; SPED 445, Phonetics; SPED 450, Speech Correction in the Elementary and Secondary Schools; SPED 481, Basic Practicum Speech; 475, Language Development of Exceptional Children.
3. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
4. Thirty-six hours of course work and practicum. These hours may be taken from the following:

I. Required Courses
   FED 801V, Introduction to Research
   SPED 870V, Seminar in Special Education
   SPED 872U, Practicum in Special Education
   SPED 889V, Research Project

II. Elective Courses
   SPED 845V, Current Practice in Speech Pathology
   SPED 850V, Basic Practicum Speech
   SPED 865V, Handwriting Disorders
   SPED 867V, Appliance Speech Rehabilitation
   SPED 869V, Speech Problems of Cerebral Palsey Children
   SPED 840V, Learning Disabilities
   SPED 821M, Teaching of Speech to the Deaf I
   SPED 822M, Teaching of Speech to the Deaf II
   SPED 823M, Teaching of Language to the Deaf I
   SPED 824M, Teaching of Language to the Deaf II

III. Elective Courses in Related Areas
   Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, and other related areas.

Major in Teaching the Deaf

**I. Required Courses
   FED 801V, Introduction to Research
   SPED 870V, Seminar in Special Education
   SPED 872U, Practicum in Special Education
   SPED 889V, Research Project

II. Elective Courses
   SPED 845V, Current Practice in Speech Pathology
   SPED 850V, Basic Practicum Speech
   SPED 865V, Handwriting Disorders
   SPED 867V, Appliance Speech Rehabilitation
   SPED 869V, Speech Problems of Cerebral Palsey Children
   SPED 840V, Learning Disabilities
   SPED 821M, Teaching of Speech to the Deaf I
   SPED 822M, Teaching of Speech to the Deaf II
   SPED 823M, Teaching of Language to the Deaf I
   SPED 824M, Teaching of Language to the Deaf II
   SPED 833M, Teaching School Subjects to the Deaf I
   SPED 835M, Teaching School Subjects to the Deaf II
   SPED 837M, Basic Audiology
   SPED 838M, Auditory and Speech Mechanisms
   FED 801V, Introduction to Research
   SPED 870V, Seminar in Special Education
   SPED 872U, Practicum in Special Education

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 greater individual proficiency in teaching mentally retarded children. State certification in EHM and TMH teaching are also available through this program. The following program requirements must be fulfilled:

1. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Dean for Graduate Studies and the Major adviser.
2. Applicants should hold a valid teaching certificate. Those not holding teaching certificates will be required to take preparatory courses in teacher education (the number of courses to be taken will be subject to a review of the applicant's transcripts and his/her related experiences in teaching children.).

*Student is responsible for prerequisites in any elective areas.
**Substitutions possible where student has taken equivalent courses on the undergraduate or graduate levels.
3. To be admitted as a candidate for an M.S. degree with a major in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.
4. Each candidate, having successfully completed thirty hours of course work and practicum, and enrolled for his last six hours, will be required to pass a final written and/or oral examination prior to his/her being recommended for the M.S. degree with a major in Mental Retardation.
5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

I. Required Courses: 30 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>FED 601V</td>
<td>Introduction to Research</td>
</tr>
<tr>
<td>SPED 806V</td>
<td>Interdisciplinary Approaches to Developmental Disabilities</td>
</tr>
<tr>
<td>SPED 807V</td>
<td>Theoretical Approaches to Teaching Developmentally Disabled Child</td>
</tr>
<tr>
<td>SPED 866M</td>
<td>Methods and Materials for Teaching Mentally Retarded Children</td>
</tr>
<tr>
<td>SPED 870V</td>
<td>Seminar in Special Education</td>
</tr>
<tr>
<td>SPED 871V</td>
<td>Introduction to Speech and Hearing Disorder</td>
</tr>
<tr>
<td>SPED 875M</td>
<td>Language Development of Exceptional Children</td>
</tr>
<tr>
<td>Psych 827V</td>
<td>Testing and Measurement</td>
</tr>
<tr>
<td>Psych 821M</td>
<td>Psychological and Educational Testing</td>
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II. Electives: 6 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 840M</td>
<td>Learning Disabilities</td>
</tr>
<tr>
<td>SPED 841M</td>
<td>Emotional Development</td>
</tr>
<tr>
<td>SPED 865M</td>
<td>Introduction to the Physically Handicapped</td>
</tr>
<tr>
<td>SPED 866V</td>
<td>Vocational Training of the Mentally Retarded Child</td>
</tr>
<tr>
<td>SPED 871V</td>
<td>Parent-Professional Relationship in Special Education</td>
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<tr>
<td>SPED 872V</td>
<td>Basic Observation and Student Teaching of Special Education</td>
</tr>
<tr>
<td>SPED 880U</td>
<td>Administration and Supervision of Special Education</td>
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</tbody>
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**Major in Teaching the Emotionally Disturbed**: 21 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>FED 601V</td>
<td>Introduction to Research</td>
</tr>
<tr>
<td>SPED 806V</td>
<td>Interdisciplinary Approaches to Developmental Disabilities</td>
</tr>
<tr>
<td>SPED 807V</td>
<td>Theoretical Approaches to Teaching Developmentally Disabled Child</td>
</tr>
<tr>
<td>SPED 866M</td>
<td>Methods and Materials for Teaching Mentally Retarded Children</td>
</tr>
<tr>
<td>SPED 870V</td>
<td>Seminar in Special Education</td>
</tr>
<tr>
<td>SPED 871V</td>
<td>Introduction to Speech and Hearing Disorder</td>
</tr>
<tr>
<td>SPED 875M</td>
<td>Language Development of Exceptional Children</td>
</tr>
<tr>
<td>Psych 827V</td>
<td>Testing and Measurement</td>
</tr>
<tr>
<td>Psych 821M</td>
<td>Psychological and Educational Testing</td>
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</tbody>
</table>

III. Electives: 15 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 861M</td>
<td>Clinical Observation of the Multi-Handicapped</td>
</tr>
<tr>
<td>Psych 813M</td>
<td>Personality Theories</td>
</tr>
<tr>
<td>Psych 815M</td>
<td>Advanced Educational Psychology</td>
</tr>
<tr>
<td>Psych 872V</td>
<td>Behavior Modification (NP1) 851, Developmental Psychology (NP1) 852, Group Dynamics</td>
</tr>
</tbody>
</table>

**The Master of Science degree with a major in teaching the emotionally disturbed includes courses that lead to certification. Prerequisites include a course in child development and state certification in at least one teaching field. The number of candidates for the degree will be restricted.**
845M Phonetics (I, S) 3 hours
Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech.

850M Speech Correction in the Elementary and Secondary Schools (I) 3 hours
PREREQ: Graduate Standing and 6 hours Speech Pathology courses
Speech correction programs as related to goals of public education for school age children; role and responsibilities of the school clinician; current practices in evaluation, case load selection and scheduling; special emphasis on methods and materials appropriate to a variety of facilities.

851M Basic Clinical Practicum in Speech Pathology (I, II, S) 3 hours
PREREQ: Graduate Standing and permission
Minimum of 45-60 clock hours per credit hour; supervised observation and practice in speech and hearing center; diagnostic interviews, therapy sessions, lesson plans, weekly practicum summaries.

860M Introduction to The Mentally Subnormal Child (I, II, S) 3 hours
Nature and educational needs of children and youth who are mentally subnormal; definitions; prevalence and types of children in educational programs; history; trends.

863M Curriculum Planning for the Disabled (I, II, S) 3 hours
PREREQ: SPED 416 and working experience with handicapped children
A modular course that deals with the development of skills necessary to develop a curriculum for disabled children and/or adults.

864M Methods and Materials for Teaching the Mentally Retarded (I, II, S) 3 hours
The retarded child as he relates to a variety of educational processes designed for his learning needs; methodology and teaching materials. Practice in the design and implementation of curriculum units, pre-school through adult; consideration of programs for the trainable and educable programs.

870M Introduction to Teaching the Gifted (S) 3 hours
Introduction to techniques and materials for identifying and helping to understand the specific development needs of gifted pupils and guidance services appropriate for them; understand types of learning tasks and how to evaluate achievement with them; analysis of timed demonstration tests appropriate to the specific needs of gifted pupils.

975M Language Development of Exceptional Children (I) 3 hours
This course is designed to cover a brief history of linguistic science; an investigation of the language development of children; a discussion of the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children.

980M Emotional Development of Children and Youth (I, S) 3 hours
An introductory study of emotional development of children and youth with attention to the symptoms and causes of emotional deviation, and the means of improvement.

981M Classroom Techniques for Behavior Control (I, S) 3 hours
PREREQ: Graduate standing
This course explores the various theories on behavior modification and discusses the application of these theories to the classroom. It is particularly appropriate for those teachers who teach a class for the emotionally disturbed or have a number of behavioral problems in their classes.

985M Introduction to the Education of the Physically Handicapped (I) 3 hours
Nature and educational needs of children and youth who are physically handicapped; definitions; prevalence and types of children in educational programs; history, trends.

994M Clinical Observation of the Multi-Handicapped (I, II) 3 hours
To familiarize students with the multi-disciplinary team approach to treatment of handicapped children in the clinical setting.
847V Neurophysiology of Speech (I, II) 3 hours
Basic structure and function of the organ of hearing and speech; theories of cortical involvements, central and peripheral nervous systems as they affect communication; individual projects.

848V Advanced Audiology (II) 3 hours
PREREQ: 452 and Graduate Standing
Audiological assessment of hearing loss including case history, specialized audiometric tests, and counseling of clients, new and experimental procedures discussed; principles and procedures for selection and use of auditory amplification prostheses; industrial audiology and medicolegal problems discussed.

850V Basic Clinical Practicum in Speech Pathology (I, II, S) 3 hours
PREREQ: 451
This course in practicum follows the course 451 which is the student's first exposure in clinical practicum. It is designed to give graduate students who need more than one semester of supervised practicum an opportunity to get this experience before being placed in a setting away from the University.

851V Advanced Clinical Practicum in Speech Pathology (I, II, S) 3 hours
PREREQ: 451 and Graduate Standing
This course provides the student with an "externship" experience for clinical practicum in either a school or a medical setting. A minimum of 45 clock hours of work is required for each credit hour per semester.

852V Advanced Clinical Practicum in Speech Pathology (I, II, S) 3 hours
The second semester of advanced clinical practicum. The student is placed in an "externship" setting with a cooperating master clinician. A minimum of 45 clock hours of work is required for each credit hour per semester.

853V Advanced Problems in Speech Pathology (I) 3 hours
PREREQ: Twenty-four hours Speech Pathology and Graduate Standing
This seminar and investigates three different areas of concern in Speech Pathology: initial survey, annotated bibliography, presentation of observation and conclusions, seminar discussion of findings. Instructor will base his lectures on topics chosen by student. Clinical demonstrations of selected voice, speech and language problems.

855V Articulation Speech Rehabilitation (I) 2 hours
PREREQ: Graduate Standing and 6 hours Speech Pathology courses including voice problems
Problems of voice and speech rehabilitation for the individual without a functional larynx: social, emotional, and medical considerations as well as clinical procedures for esophageal, pharyngeal and buccal speech; implications for use of artificial larynx: current research pertinent to this area.

856V Speech Problems of Cerebral Palsied Children (I, II, S) 3 hours
PREREQ: SPED 810V
Identification of types of cerebral palsy by location of lesion, motor symptomology, and additional handicapping; the role of the speech clinician on the team: types of speech therapy, with special emphasis on the Bobath approach; current research and controversial issues will be discussed.

854V Theoretical Approaches to Teaching the Developmentally Disabled Child (I, II, S) 3 hours
PREREQ: SPED 809V & 860V
This is an advanced course that deals with the theoretical approaches to instruction. It is an analysis of different models developed to work with the developmentally disabled child.

866V Vocational Training for the Mentally Retarded (I, III) 3 hours
Consideration of the following aspects: history and background of vocational training (adjustment); a brief description of MR; a look at people involved in the vocational training of the MR; a comparison of the programs offered at the EMR academic levels; a comparison of program prototypes; a rationale and evaluation of vocational adjustment programs; a working arrangement with the MR client; the consideration of the future of the MR in the world of work; related topics to the field; methods and materials available.

867V Community Services for the Mentally Retarded (I) 3 hours
The student will be introduced to community and regional resources which provide service according to the needs of an individual client. These resources will constitute activity centers, shelter workshops, diagnostic clinics, recreational facilities, foster care programs, residential centers, and others. From these sources will come the expertise in informing the student of program goals, and objectives activities manpower needs and involvement, coordination with related programs, administration of services, financing of services, and priority settings.

870V Seminar in Special Education (I, II, S) 3 hours
Graduate course primarily for Special Education majors and professional workers in the fields of speech and hearing, teaching the mentally retarded, remedial reading and teaching the physically handicapped. Familiarity with philosophy, major literature and practices in each area; student will research and present work reflecting his personal professional interests. Discussions, forums, and panels; visiting experts.

871V Parent-Professional Relationships in Special Education (I) 3 hours
PREREQ: 606
Professionals dealing with handicapped children became aware that a child's handicap affects the family unit and the community. Conversely, the family and the community influences the child's adjustment to his handicap. This course deals with the development of positive relationships between parents and professionals.

872V Basic Observation and Student Teaching in Special Education (I, II, S) 3 or 5 hours
Classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.

873V Advanced Observation and Student Teaching in Special Education (I, II, S) 3 or 5 hours
PREREQ: 872V
A second semester of classroom experience with exceptional children for students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.

876V Methods and Materials for Teaching the Physically Handicapped (I, II) 3 hours
PREREQ: Course 491 or equivalent and Graduate Standing
Consideration of the physically handicapped child as his unique exceptions require the development of specialized methods and materials designed to meet his learning needs; an investigation of practices and problems involved in methodology and materials; application of methods; development of evaluation of materials; practices in designing implementation of methods and materials; selected observations of programs.

877V Diagnostic and Remediation Techniques in Early Childhood Education for the Disabled (I, II) 3 hours
PREREQ: 606V
This course deals with the different disciplines used at the Medical Center and some of their techniques for assessing the developmentally disabled child and also presenting methods that can be utilized in intervention with the developmentally disabled child.

878V Diagnosis of Learning Disability (I, S) 3 hours
PREREQ: Course 491 or equivalent and Graduate Standing
Special Education teachers are often required to interpret the results of evaluations developed through the use of testing. This course familiarizes the student with the various techniques used for diagnosing or evaluating learning problems.

879V Clinical Teaching in Learning Disabilities (I) 3 hours
Theoretical and limited practical knowledge of a particular kind of teaching; it is to tailor learning experiences to the unique needs of children who have specific learning disabilities. The student learns of the possibilities and continuous probing needed for individualized instruction.

880V Thesis (I, II, S) 3-6 hours
Required of all students taking Master of Arts degree, see major adviser for information.
All students who intend to become degree candidates must complete core requirements consisting of one research course (Speech 801V), one theory seminar, and one additional course in the area of intended major emphasis. 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 21 semester hours of course work including at least 9 hours in 800V and 800 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(s) of study.

Option II: Successful completion of 36 semester hours of course work including at least 18 hours in 800V and 800 level courses, at least 18 hours must be in the student's field of concentration) and independent research or creative project in writing, video, film, or theatre production; plus a written examination over his area of major emphasis and minor area studies, judged by a faculty committee.

Course Descriptions

901M Advanced Projects in Speech (L, II) Each 1-3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
Special projects in speech supplementing regular courses; individual research projects; combined study and practicum.

911M Development of Rhetorical Theory (I) 3 hours
PREREQ: 6 hours Speech and graduate standing
The evolution of rhetorical theory from 500 B.C. to 1800.

912M Studies in American Public Address (I) 3 hours
PREREQ: 9 hours of speech
Study of representative American speakers from the Eighteenth Century to the present.

913M Law and Legal文件 (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

914M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to broadcasting and its role in society.

915M History of Broadcasting in the U.S. (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.

916M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

917M Development of Rhetorical Theory (I) 3 hours
PREREQ: 6 hours Speech and graduate standing
The evolution of rhetorical theory from 500 B.C. to 1800.

918M Law and Legal文件 (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

919M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.

920M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

921M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.

922M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

923M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.

924M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

925M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.

926M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

927M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.

928M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the legal system and legal topics for non-law students.

929M Issues in Broadcasting (I) 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
An introduction to the history of broadcasting in the United States from 1920 to the present.
935M Seminar in Applications of Non-Verbal Communication Theory 3 hours
(Same as Psychology 852M and ANTH 852M)
PREREQ: Course in research methods or permission of instructor
Theories and research on the development, facilitation and barriers of human non-verbal communication. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication.

URBAN STUDIES (US)
Graduate Faculty Members:
Professor David A. Peterson;
Associate Professor Robert P. McCune (Chairman).

Master of Science With a Major in Urban Studies
This is a professional graduate degree which is designed: (1) to prepare students for human service careers in an urban setting; (2) for research or teaching in this field; (3) for those already involved in urban programs and are seeking additional professional training.
Qualified urbanists are being sought by a wide range of employers. Private corporations as well as public agencies are seeking employees who have a broad range of technical skills and an understanding of the problems of contemporary urban society.

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

Degree Requirements
Thirty-six semester hours of course work are required. A core of six required courses shall be completed, plus nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 883V, 884V, 801V, 802V; Sociology 851M; and History 844M or 812M. Courses applicable to the area of concentration may include, but are not necessarily restricted to Political Science 892M, 843M, 880V; Public Administration 841V, 842V, 844V, 846V, 848V; Geography 881V; Psychology 991; Sociology 810M, 841M, 862M, 875M, 880M, 888M, 811M; Gerontology 810M, 892M; Counseling 898M, 822V, 827V, 827V. A maximum of nine hours of optional credit may be selected from Economics 885V, 886V, 887V, 888V; History 843V, 811M; Geography 881V, 882M; or many of the courses listed above.

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

Urban Studies
891V The Metropolis as a Public Economy 3 hours
The integration of politics and economics in the metropolitan system as they affect metropolitan policy-making is discussed. Significant metropolitan problems such as poverty, transportation, housing, crime, education, and the environment will be analyzed.
This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.

An interdisciplinary course on the metropolitan community in which urban problems are put in a broad interrelated focus. (Also listed under Economics, Geography, Political Science, and Sociology)
GRADUATE FACULTY
1974-75

ROBERT L. ACKERMAN Elementary and Early Childhood Education Ed.D., University of Nebraska-Lincoln, 1968; Professor and Chairman of Department

PAUL B. ACKERSON Secondary/Post-Secondary Education Ed.D., Oklahoma State University, 1968; Professor

FREDERICK W. ADRIAN Ph.D., Ohio State University, 1943; Professor

JAMES C. AKERS Special Education (Reading) Ed.D., Oklahoma State University, 1985; Associate Professor

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CLIFFORD ANDERBERG Philosophy and Religion Ph.D., University of Wisconsin, 1963; Professor and Chairman of Department

CAROL R. ANGLE M.D., Cornell University Medical College, 1931; Professor (Joint Appointment with College of Medicine)

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BRUCE P. BAKER II English Ph.D., Texas Christian University, 1968; The Albert H. Jeffries Professor and Chairman of Department

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NICHOLAS BARISS Geography Ph.D., Clark University, 1967; Professor

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GORDON BECKER (GF) Psychology Ph.D., University of Pittsburgh, 1958; Professor

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JOHN K. BRILHART (GF) English Ph.D., Pennsylvania State University, 1962; Professor

NAN L. BRITT History Ph.D., Emory University, 1972; Assistant Professor; Assistant Professor of Medical History, College of Medicine

MERLE E. BROOKS Biology Ph.D., University of Colorado, 1964; Professor

EVAN BROWN Psychology Ph.D., World University of Washington, 1966; Assistant Professor

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SIDNEY BUCHANAN Art M.F.A., New Mexico Highlands University, 1963; Associate Professor

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ELTON S. CARTER (GF) Speech Ph.D., Northwestern University, 1956; Professor and Dean, Graduate Studies; Chairman Graduate Faculty: ex officio Member, Graduate Council, University of Nebraska System

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EDWIN L. CLARK Fine Arts (Theatre) Ph.D., State University of Iowa, 1961; Professor, Director, University Theatre

LEONARD CLONINGER Special Education Ed.D., University of Northern Colorado, 1971; Assistant Professor

WILLIAM T. CLUTE Sociology Ph.D., University of Minnesota, 1969; Assistant Professor

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G. WAYNE GLIDDEN Educational Foundations Ed.D., University of Nebraska-Lincoln, 1964; Professor and Chairman of Department

DONALD J. GRANDGENETT Secondary/Post-Secondary Ed.D., Arizona State University, 1967; Associate Professor

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ERT J. GUM History Ph.D., Louisiana State University, 1963; Professor

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ERNST A. KENNEDY .......................... Chemistry  
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Ph.D., University of Kansas, 1955; Professor

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NORMAN J. LUNA ............................ Foreign Languages  
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ROBERT B. MOORE ......................... Fine Arts (Theatre)  
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KIRK E. NAYLOR ....................... Educational Administration  
Ed.D., University of Kansas, 1992; Professor

GLEN A. NEWKIRK ....................... English  
Ph.D., University of Denver, 1966; Professor

JOHN M. NEWTON (GF) .................. Psychology  
Ph.D., Ohio State University, 1955; Professor and Chairman of Department

DONALD A. NIELSEN ...................... Business Administration (Real Estate and Development)  
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- ROY M. ROBBINS (GF): Ph.D., University of Iowa, 1968; Professor and Chairman of Department of History.

### Sociology
- MARK O. ROUSSEAU: Ph.D., University of North Carolina, 1971; Assistant Professor.
- GENE E. RUSSELL: Ph.D., University of Wisconsin, 1967; Associate Professor.
- DAVID G. SCOTT: Ph.D., University of Iowa, 1948; Professor and Chairman of Department of Public Administration.
- JAMES W. SELEE: Ph.D., University of Colorado, 1964; Professor.
- HENRY SERENCO: M.F.A., Alfred University, College of Ceramics, 1976; Assistant Professor.
- ROGER S. SHARPE: Ph.D., University of Nebraska-Lincoln, 1966; Associate Professor.
- JOHN F. SHRODER, JR. (GF): Ph.D., University of Utah, 1971; Associate Professor.
- ROBERT B. SIMPSON: Ph.D., Washington University, 1970; Assistant Professor.
- DAVID SIROTA: Ph.D., University of Arizona, 1971; Associate Professor.
- JACQUELINE D. ST. JOHN: Ph.D., University of Oklahoma, 1970; Associate Professor.
- JUSTIN B. STOLEN: Ph.D., University of Illinois, 1969; Associate Professor.
- DAME A. STOVER: Ph.D., University of Wisconsin, 1967; Associate Professor.
- ROY G. STRIDER (GF): Ph.D., McGill University, 1967; Associate Professor.

### Biology
- WILBUR F. ROGERS (GF): Ph.D., Pennsylvania State University, 1978; Registered Professional Engineer.
- WILLIS P. ROKES (GF): Business Administration (Law and Society).
- J.D., University of Utah, 1951; Ph.D., Ohio State University, 1955; C.L.U.; C.P.A.; Professor.

### Political Science
- WILLIAM C. PRATT (GF): Ed.D., University of Nebraska-Lincoln, 1968; Associate Professor.
- ROBERT A. PILKINGTON: Ph.D., University of Nebraska-Lincoln, 1971; Assistant Professor.
- WILLIAM C. PRATT (GF): Ph.D., Emory University, 1969; Associate Professor.
- ROY M. ROBBINS (GF): Ph.D., University of Wisconsin, 1959; Assistant Professor.
- MICHAEL J. ROCKER: Secondary/Post-Secondary Education, Ph.D., University of Minnesota, 1969; Assistant Professor.
- ROBERT A. PILKINGTON: Counseling and Guidance, Ed.D., University of Nebraska-Lincoln, 1971; Assistant Professor.

### Industrial Technology
- CHERYL H. PREWITT: M.S., Oklahoma State University, 1936; Professor.

### Business Administration (Accounting)
- RICHARD F. ORMST: University of Wisconsin, 1971; C.P.A.; Assistant Professor.

### Counseling and Guidance
- B. GALE OLSON: Ph.D., University of Nebraska-Lincoln, 1968; Associate Professor.
- ROBERT A. PILKINGTON: Counseling and Guidance, Ed.D., University of Nebraska-Lincoln, 1971; Assistant Professor.

### Urban Studies and Gerontology
- DAVID A. PETERSON: Ph.D., University of Michigan, 1960; Professor; Director of Gerontology Program.

### Musc
- JAMES B. PETERSON: Ph.D., State University of Iowa, 1953; Professor and Chairman of Department of Music.

### Educational Administration
- ROBERT C. ORRELL (GF): Ed.D., University of Kansas, 1962; Professor.
- RICHARD A. ORTELL: Ph.D., University of Wisconsin, 1968; Associate Professor.

### Business Administration (Marketing)
- DONALD W. PRESTWICH: Ph.D., Ohio State University, 1937; Professor.

### Biology
- GEORGE R. RACHFORD: Ed.D., Indiana University, 1955; Professor.

### Health, Physical Education and Recreation
- JOHN P. RADACCA: Ph.D., North Texas State University, 1970; Assistant Professor.

### Civil Engineering
- M. N. REDDY: Ph.D., Oklahoma State University, 1968; Associate Professor.

### Geography
- HAROLD J. RETALICK: Ph.D., Clark University, 1990; Professor.

### History
- ROY M. ROBBINS (GF): Ph.D., University of Wisconsin, 1959; Assistant Professor.
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