Graduate Catalogs

1976

Graduate Academic Catalog (1976-1977)

University of Nebraska at Omaha

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# THE GRADUATE CATALOG

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## THE BOARD OF REGENTS

- Robert Koseki, M.D., Grand Island
- Robert Prokop, M.D., Omaha
- Robert L. Raun, Minden
- D. B. Varner, President
  - The University of Nebraska

**ADDITIONAL ADMINISTRATORS**

- A. Carl Lopipolo, Dean of the Graduate College
  - The University of Nebraska

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  - Vice Chancellor for Academic Affairs: Don Leahy, M.S.
  - Assistant to the Chancellor for Planning: James Maynard, Ph.D.
  - Institutional Research: Gary Curry
  - Vice Chancellor of Business and Finance: Gary Curry

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- Jerome M. Birdman, Ph.D., Dean, School of Fine Arts
- Thomas Goultyere, M.A., Intern Dean, International Affairs
- Robert H. Woody, Ph.D., Sc.D., Dean, Graduate Studies and Research
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THE GRADUATE CATALOG

ACADEMIC CALENDAR

First Semester 1976-77

July 15
End of summer session.

July 19-Aug. 20
Last day for submitting applications for admission.

Aug. 13
Orientation.

Aug. 24-27
Registration (Field House).

Aug. 25
Beginning of academic year.

Sept. 1-8
First semester begins at 0700 both day and evening classes.

Sept. 6
Labor Day, University Closed.

Sept. 8
Last day up to 1500 for change of class schedule.

Oct. 11
Last day for filing applications for degrees to be conferred in December.

Oct. 27
Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.

Nov. 17
Last day class may be dropped in order to receive a "W." Last day a class may be changed to "Audit" or changed from a grade registration to CR/NC.

Nov. 29
Classes resume at 0700.

Second Semester 1976-77

Dec. 15
Last day of classes.

Dec. 16-22
Finals.

Dec. 24
Commencement.

Dec. 28
Christmas Holiday, University closed.

Jan. 4
Grades due in Registrar's Office at 1200.

Dec. 29-Jan. 14
Special course offerings.

Second Semester 1976-77

Jan. 7
Last day for submitting credentials for admission in undergraduate college for the Second Semester 1976-77.

Jan. 10-13
Registration (Field House).

Jan. 17-21
Second Semester begins at 0700 both day and evening classes.

Jan. 21
Last day up to 1600 for change of class schedule.

Feb. 1
Last day for filing applications for degrees to be conferred in May.

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

Feb. 4
Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 1976-77.

Feb. 9
Spring vacation begins at 1200.

Feb. 14-15
Holiday, University closed.

Feb. 18
Classes resume 0700.

Feb. 19
Honors Day.

Feb. 29
Status report for all prospective graduating students due in Registrar's Office by 1200.

May 6
Last day of classes.

May 7-13
Finals.

May 13
Last day for filing credentials for admission to Graduate Studies for the First Summer Session 1976-77.

May 14
Commencement.

May 18
Graduation in Registrar's Office by 1200.

May 30
Memorial Day, University closed.

THE GRADUATE CATALOG
## DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

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<th>Master of Arts</th>
<th>Master of Science</th>
<th>Other</th>
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<td>Accounting and Auditing</td>
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<td>College Student Personnel Services</td>
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<td>Gerontology</td>
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<tr>
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**Notes:**
- "x" indicates courses are offered for graduate credit.
- "硕士" in the exception of industrial psychology and developmental psychology offered in conjunction with the Psychology Department, UN-L. Ph.D. in specialties of environmental child and school psychology offered in conjunction with the Educational Psychology and Measurements Department, UN-L.

*The above dates are subject to change.*
GRADUATE STUDIES AT UNO

The first Master's degrees were awarded in 1919 by a special vote of the Board of Trustees of the "old" University of Omaha. In 1932, after the University became the Municipal University of Omaha, a Graduate Committee was organized to supervise graduate education. In 1942, the Graduate Committee was replaced by the Committee on Graduate Studies. The degree Master of Science in Education was approved in 1948. In 1954, the Committee on Graduate Studies became the Graduate Council and the Chairman became the Director of the Graduate Division. In 1960, the Board of Regents authorized a year of graduate study in education beyond the Master's degree. The Master of Business Administration was authorized in 1966 and the Master of Public Administration was authorized in 1970.

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

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

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

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

ACCREDITED STANDING

The University of Nebraska at Omaha is fully accredited by the North Central Association of College and Secondary Schools, and the National Council for Accreditation of Teacher Education. It has programs approved by the American Chemical Society, The Council on Social Work Education, and the International Reading Association. It is a member of the National Commission on Accrediting (not an accrediting agency), the American Association of Colleges for Teacher Education, the Association of American Universities, the Association of American Colleges, the National University Extension Association, the American Association of University Women, the Council of Graduate Schools in the United States, the Midwest Conference on Graduate Study and Research, the Association of University Evening Colleges, the Adult Education Association of the United States, Associated Governing Boards, and the American Council on Education. Its courses are accepted, for purposes of teacher certification, by the Nebraska State Department of Public Instruction.

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

DEGREE PROGRAMS

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

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

**MATRICULATION FEE**

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

**EXAMINATIONS FOR GRADUATE STUDENTS**

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

- All testing at UNO in the three categories below is under the supervision of the Director, Counseling and Testing Center. Registration deadlines and testing dates are available from the Counseling and Testing Center, Administration Building 213 or the Graduate Office, Admin. 250.

**Graduate Record Examination**

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

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

- The Graduate student is required to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination.

**Candidates for Admission**

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

**English as a Foreign Language**

The Test of English as a foreign language (TOEFL) scores must be on file in the Director of Admissions Office before an application for admission to Graduate Studies is considered for 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 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 a regionally accredited 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.

**Miller Analogies Test**

Graduate students who have been admitted into the Department of Educational Administration and Supervision, Counseling and Guidance, Educational Research, and Guidance must take the Miller Analogies Test. Inability to pass this test may prevent students from admission to the programs of study described above.

The Counseling and Guidance Department requires those wishing to pursue a degree program in counseling to take admission tests in addition to the Graduate Record Examination (see page 29).

**Graduate Management Admission Test**

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

**Counseling Program Test**

Applicants for admission to the Counseling and Guidance program are required to take the Counseling Program Test.

**Master Analogies Test**

Graduate students who have been admitted into the Department of Educational Administration and Supervision, Counseling and Guidance, Educational Research, and Guidance must take the Miller Analogies Test. This test is administered on an individual basis and an appointment to sit for the test is scheduled through the Counseling and Testing Center.

The Test of English as a foreign language (TOEFL) scores must be on file in the Director of Admissions Office before an applicant for admission to Graduate Studies is considered for 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.
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 if one is involved) and written approval by the Dean for Graduate Studies and Research. This admission may be made for reasons of maturity, experience, or other extenuating circumstances under which the student may be deemed capable of high quality graduate study. This provision 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.

Students admitted from unaccredited colleges may be admitted provisionally. Unconditional status may be attained upon completion of twelve semester hours in 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 cultural advancement
3. graduate students taking courses for transfer to another institution
4. graduate students taking classes for advanced study as non degree students. This classification includes:

- Credit hours accumulated in this category could be counted toward a degree only if:
  - (a) the student is enrolled at the University in the semester or session in which completion of the undergraduate work is desired; and
  - (b) the petition for change is approved by the appropriate campus Dean for Graduate Studies and Research.

Admission to Professional 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 or be eligible for such a certificate at the time of application. Certification requirements are discussed 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 filing 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 approval of his major advisor (and of the Dean for Grad Students) before registering for courses.

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 as soon as he can qualify for admission to candidacy. The qualifications are:

1. the student must have satisfied the requirements for admission to graduate study; (2) nine hours of graduate credit 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 which courses have been included to satisfy the requirements of 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 second degree, and (3) approved by the Dean for Graduate Studies.

Application forms should be filled out by the student - in consultation with his major and minor advisors - as soon as the student can qualify for admission to candidacy. Both the major and minor programs should be carefully considered in the application. The application form and the plan of study should be signed by both the major and minor advisors.

The application form and the plan of study should be filed with the major advisor who then secures the necessary signature. The Graduate Office, all signatures are secured, provides copies to the minor advisor if the minor is concerned, and the approval of the Dean for Graduate Studies and Research.

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

APPLICATION FOR THE DEGREE
The candidate for the degree must file an application for degree in the Registrar's Office in the semester 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. All candidates who write a thesis, the final examination may be either written or oral at the option of the department concerned. Written examinations will cover the minor field. This does not prejudice the privilege of the minor professor in the event that the student is advised to write a thesis. The final comprehensive examination is given at a date arranged at the convenience of both the student and the minor advisor but falling within the limits established for all comprehensive examinations.

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

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

Students electing to pursue the Option I degree program described on page 9 are required to prepare a thesis under the direction of the major advisor 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 submitted at least three months before the commencement in which the student plans to receive his degree.

Three typewritten copies of the thesis (two copies for the University Library and one a student’s personal copy), plus an additional copy if requested by the department, are required. The original must be a typewritten copy on permanent bond paper of 20-pound weight.Copies should be on paper of at least 14 lb. weight. Except for the major, the committee, or other area of academic 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 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 ten working days prior to the end of the semester.

Thesis Manual: The responsibility for placing the thesis in final form rests with the student and the major advisor. All theses must be written in accordance with a standardized thesis manual. The Graduate Faculty has approved an official manual for each department and the student should consult the "Instructions for the Preparation of Theses." A copy of which may be obtained in the Graduate Office.

The composition of the committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean for Graduate Studies and Research for his approval and appointment. This committee shall consist of members from the major department if available 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 (as noted above), one-half the time may be devoted to the thesis and one-half to the comprehensive. The thesis examination may be 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 to be held in the Graduate Office together with the signed approval sheets at least twelve working days prior to the conferral of the degree.

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

Summary of Procedure for Graduate Students

1. File two official transcripts of undergraduate credits (and graduate, if any), an application for admission form with the Director of Admissions. You will be notified by mail of your admission to graduate study.
2. Arrange to take the entrance examination (GRE, GMAT or MAT) in Room 213, Administration Building. If you have previously taken the examination, you have the scores sent to the Graduate Office.
3. Arrange your class schedule with your advisor and have him sign your registration slip.
4. Pay a $10 matriculation fee at the time of your enrollment in graduate study.
5. Apply for admission to candidacy for the degree in accord with the procedures 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 advisor or department chairperson at the time of your final enrollment that you wish to sit for the comprehensive examination (provided your department is not one of those who administer the comprehensive examination earlier in the program).
8. Notify the Graduate Office at the time of your final enrollment of your intention to graduate at the end of the semester so that your graduate record may be compiled.
9. Remove incompletes with grades, pay all fees and fines (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. The scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.

11. Order the cap and gown from the Bookstore.

Quality of Work

A "B" average must be maintained in all work taken as part of the requirements for the degree. A final grade of "C" in any course in either the major or minor area will require action on the part of the student and/or the department. The thesis will be reviewed and an average of 3.0 or higher will be required. The thesis must be approved by the student’s thesis committee and submitted to the Graduate Office together with the signed approval sheets at least twelve working days prior to the conferral of the degree.

In the event that the student is not satisfied with the grade assigned by the instructor, he should first seek consultation with the instructor. If a dispute still exists, the student should then appeal the case to the department chairman. If the department chairman is unable to resolve the question, the student should proceed to the Graduate Council when recommended by the Department Chairman for Graduate Studies and Research.

Thesis grades will be transferred to the student’s permanent record. A course grade of "C" 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 thesis must be approved by the Graduate Committee and submitted to the Graduate Office at least twelve working days prior to the conferral of the degree.

Grades of "I" or "W" will be used as an indication of progress. The grade of "I" will 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, personal necessity, marital relationship, 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 may 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 chairperson shall supervise the removal of the Incomplete, at the student’s request, and record the permanent grade for the student. A student who fails to complete a course in which he has received a grade "I" must re-register and take the course again. If he receives the Incomplete grade again, he is subject to withdrawal from the University.

Incompletes may be removed by the chairperson at any time prior to the final grade of "I" to 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 conferral of the degree.

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

Policy on Class Attendance

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

"If a student is absent or anticipates an absence, the student’s primary responsibility is directed to the instructors, and the student should consult with them accordingly. A student who misses a class is responsible for obtaining information for assignments communicated during that class session.

If a student discovers that he or she is to be absent for an extended period, the student should promptly contact the instructor for an explanation. If the student discovers that he or she is to be absent for an extended period, the student should promptly contact the instructor for an explanation. If the instructor determines that the student has a legitimate reason for such absence due to a field trip or similar officially recognized activity and is responsible for providing adequate information to the student involved so that the student may provide notice to other instructors.

Appeals procedure: "Should there be cause on the part of individuals involved to feel that the reasons for absence were not considered with equity, a decision with punitive consequences may be appealed. Initial appeals shall be directed to the instructor for the comprehensive examination (provided your department is not one of those who administer the comprehensive examination earlier in the program).

Notice: If the student receives an "I" grade, the student shall have the following options: The student may re-register and take the course to remove the Incomplete grade, or the student may appeal the case to the department chairman. If the student appeals, the student shall be notified of the action of the department chairman.

If the student appeals decision is unsatisfactory, the next step in the appeals process is for the student to submit a written statement to the appropriate department dean indicating the specific nature of the appeal to be considered and requesting the consideration of the appropriate college committee designated for hearing such grievances.
The committee makes a recommendation to the respective dean, and the dean's decision is then conveyed to the student. If a student wishes to appeal further the decision of the academic dean, a written appeal may be submitted to the University Committee on Academic Standards. The committee serves an appellate function in hearing appeals of students who feel aggrieved on the basis of decisions rendered by the academic dean.

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

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

STUDY LOAD

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

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

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

AUDIT

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

Courses for Graduate Credit

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabi on file in the Graduate Office. Courses numbered 600G, 800G and 900G 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 900G numbered courses. It is expected as a rule that graduate students enrolled in these courses numbered 800G-900G will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.

Residence Requirements

A minimum of 30 semester credit hours in residence (36 in case of the Master of Science, Master of Public Administration, Master of Social Work and the Master of Business Administration degrees), is required for the awarding 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 extension schools) may request the permission to transfer as many as six semester hours of credit for Graduate Studies and Research for his approval.

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. A written request must be made for transfer of credits from an ungraded course elsewhere. The student must have the former instructor submit an evaluation to the Dean for Graduate Studies and Research for review and consideration. No transfer of credit can be made until the student has been admitted to the University. All work accepted for transfer of credit must have been taken within the six-year period allowed for the Master's degree.

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

Students who wish to take graduate courses at the University of Nebraska at Lincoln or at the Medical Center for transfer to 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 only if approved by the student's committee with at least one-half of the minimum degree requirements to be taken at the UNL or UNO campus, whichever is to grante the degree. Only grades of "B" or better may be transferred from other schools in the University System to apply toward degree requirements here.

Withdrawal from the University

To officially withdraw from all classes and thereby from the University, and to receive any refund due, as well as approval of academic standing for the grading period in question, a graduate student is required to obtain the signatures of his advisor and the UNO Dean for Graduate Studies and Research prior to submitting the withdrawal form. The refund of any fees will be based on the University Catalog, Graduate, class schedule and Student Handbook, and as posted in the Cashier's Office. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

Time Limit for All Master's Degrees

The work required for a master's degree must be completed within six consecutive calendar years. Upon the recommendation of the department, a graduate student may apply to the Graduate Council for permission to take a special examination, or the current semester final examination in courses which results grade record has been recorded and is obsolete. A report of the results of this examination, which shall be prepared, given, and graded by the department, shall be the basis for the grade. If this grade is obtained, the student shall be required to take additional work, the amount and nature of which will be determined by the major advisor and the Dean for Graduate Studies and Research. Time spent in the military service of the United States may be excepted in the application of this rule.

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, lines, storage, supplies, special services not listed, damages, late payment, and late withdrawal. Tuition and related fees are payable in full at the time of registration, or in accordance with the payment schedule. Students availing themselves of the deferred billing option must familiarize themselves with the due dates, as publicized. 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 contact the Student Financial Aid Officer in Administration Room 169. Application for financial aid should be made at the earliest possible time. Registration is not complete until cleared by the Cashier. Failure to pay tuition or fees when due, or to meet payments on time (and due, may result in cancellation of registration, legal collection efforts, or both.

Application Fee (Undergraduate):

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

Residents of Nebraska: $30.00
Non-resident: $26.00

Matriculation Fee (Graduate College):

Payable upon first-time enrollment in the Graduate College:

Per Semester Credit Hour: Undergraduate or Graduate
Resident of Nebraska (fee residency status): $18.00
Non-resident: $48.25

Audits Fee:

The Audit 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. Credit registration will not be allowed. Students who register to take a course for credit and 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

Special Instructional Fees:

Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the
Late Fees and Penalties:

- **Teacher Placement Fees:**
  - Unpaid balances, and any remaining balance shall be paid.

- **University Program and Facilities Fee (UPFF):**
  - Full-time students (12 credit hours or more) per semester: $36.00
  - Part-time students (less than 12 hours) per semester: $18.00

- **Special Service Fees:**
  - Continuing Engineering Studies — Professional Studies — Development Degree Program:
    - Initial application: $25.00
    - Attainment of 300 credit units (additional): $25.00
    - Attainment of 600 credit units (additional): $25.00
    - Attainment of 900 credit units (additional): $25.00
    - Attainment of 1200 credit units (additional): $25.00
    - Transcript of Academic Record per copy: $1.00
    - Thesis Binding per copy: $6.00
    - Cap and Gown Rental (to be arranged through the Bookstore): $3.00
    - Degree in Absentia (payable in addition to graduation fee): $25.00
    - Thesi s Binding per copy: $6.00
    - Transcripts of Academic Record per copy: $1.00

- **Transcripts of Academic Record per copy:** $1.00

- **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.**

**Refund Schedule**:

- **Before first official day of semester:**
  - First week of classes: 100% of tuition refunded.
  - Second week of classes: 50% of tuition refunded.
  - Fifth week of classes: 0% of tuition refunded.

- **Withdrawal after second class:**
  - First three weeks of classes: 100% of tuition refunded.
  - Fourth week of classes: 50% of tuition refunded.
  - Fifth week of classes: 0% of tuition refunded.

- **Summer Sessions (2 and 4 Weeks):**
  - Before first official day of semester: 50% of tuition refunded.
  - First three weeks of classes: 25% of tuition refunded.
  - Fourth week of classes: 0% of tuition refunded.

- **Summer Evening and Special Contract (7 and 8 Weeks):**
  - Before first official day of semester: 100% of tuition refunded.
  - First three weeks of classes: 50% of tuition refunded.
  - Fourth week of classes: 0% of tuition refunded.

- **Non-Credit and Special Courses (10 Weeks or More):**
  - Withdrawal before classes start: 100% of tuition refunded.
  - Withdrawal before first week elapsed: 50% of tuition refunded.
  - Withdrawal after 2 weeks elapsed: 0% of tuition refunded.
  - (Less than 10 Weeks):
    - Withdrawal before classes start: 100% of tuition refunded.
    - Withdrawal before second class: 50% of tuition refunded.
    - Withdrawal after second class: 0% of tuition refunded.
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 $3010.00. Approximately twenty hours of work per week is required. The enrollment of students with assistantships will be limited to no more than twelve credit hours per semester unless the student has demonstrated extraordinary efficiency and the adviser recommends the abnormally high work load. Applications and Research for graduate assistantships and tuition waivers for graduate students are available in the Graduate Office. Allow at least two months for processing applications.

TRAVELING SCHOLAR PROGRAM

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

SCHOLARSHIPS

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

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

LOANS

Qualified women graduate students are eligible for a Phi Delta Gamma loan on a limited basis. To apply for loans from other sources as well, contact the Director of Financial Aid, Room 159, Administration Building.

ORGANIZATIONS

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

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

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

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

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

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

FACULTY SENATE RESEARCH COMMITTEE

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

EXTRAMURAL GRANTS

Through the Dean for Graduate Studies and Research, the Office of Planning and Research provides advice and technical assistance to faculty and staff in the following areas: solicitation of funds; preparation of research proposals; preparation of grant budgets; preparation of grant progress reports; excess property programs; and implementation of workshops, seminars, and
classes on grants development. The Director of Research and Planning reports directly to the Dean for Graduate Studies and Research.

GRADUATE PROGRAM COMMITTEES

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

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

Each new graduate student, in conference with the chairperson of the Graduate Program Committee of his major department, shall select his major adviser. For the student who has a supervisory or advisory committee, the composition of the committee shall be recommended to the Dean for Graduate Studies and Research by the chairperson of the student’s Graduate Program Committee after consultation with the student and his major adviser. At the master’s level, committees of three members are usually sufficient. The chairperson should be a member of the Graduate Faculty and when ever possible, the student’s adviser and thesis director. The representative from a department other than the major must be a member of the Graduate Faculty. In addition to at least three voting members, faculty members in the university system may be appointed to serve on offices (without vote) as consultants (or to gain experience as special representatives of the Dean for Graduate Studies and Research. The Graduate Program Committees at UNO represent both the Graduate Faculty and the student’s field of study. The word program denotes all kinds of academic requirements which must be satisfied by the graduate student in order to qualify for a particular degree (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 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.

POLICY ON PLAGIARISM

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

Plagiarism by Students

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

Plagiarism by Faculty

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

BIOLOGY

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

Master of Arts

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

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

Master of Science

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

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

BUSINESS ADMINISTRATION

The Master of Business Administration Degree

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

Admission Standards

The minimum standards for students in the MBA program are:

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

or

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

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

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

Degree Requirements

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

- **Economics**: Econ 201 and Econ 202
- **Accounting**: Acc 201 and Acc 202
- **Computers in Business**: CB 231
- **Quantitative Methods or Principles of Decision Sciences**: DS 212
- **Statistics**: DS 215
- **Business Law**: L&S 323
- **Corporation Finance**: BF 325
These foundation courses cannot be used to meet the 36 semester hours required for the MBA degree. The quality of work in the foundation core should be the same as for degree requirements. Courses successfully completed (A, B, or C grades) in the student’s undergraduate program are considered as sufficient preparation. Otherwise, the student must include the course deficiencies in the program of study.

Students who through experience or self study consider themselves proficient in any of these areas may complete a “Satisfaction by Examination” in lieu of course work. The proficiency examinations are scheduled each year in January and August.

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

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

**Core Courses**

- **BA 800 V** Quantitative Analysis
- **BA 810 V** Managerial Economics
- **BA 820 V** Managerial Accounting
- **BA 830 V** Human Behavior in Organization
- **BA 880 V** Policy, Planning, and Strategy

**Option Courses**

### Option #1 — Business Administration

- **BA 832 V** Environment of Management
- **BA 840 V** Marketing Policies
- **BA 850 V** Financial Management
- **BA 881 V** Business and Society
- **BA 803 V** Seminar in Business Administration

### Option #2 — Marketing

- **BA 842 V** Marketing Policies
- **BA 841 V** Promotional Policies
- **BA 845 V** Seminar in Marketing
- **BA 805 V** Seminar in Economics and Business
- **BA 805 V** Seminar in Business Administration

### Option #3 — Decision Sciences

- **BA 902 V** Research Methods in Economics and Business
- **BA 903 V** Business Information Systems
- **BA 904 V** Applied Quantitative Analysis
- **BA 801 V** Business and Society
- **Econ 803 V** Econometrics
- **BA 890 V** Independent Research (in Decision Sciences)

### Option #4 — Real Estate

- **BA 900 V** Real Estate and Land Use
- **BA 901 V** Economics of Real Estate
- **BA 861 V** Current Problems in Real Estate and Land Use Economics
- **Econ 856 M** State and Local Finance
- **BA 899 V** Thesis

### Option #5 — Accounting

- **BA 821 V** Accounting Theory
- **BA 825 V** Controllership
- **BA 825 V** Seminar in Accounting
- **BA 830 V** Business Information Systems and Independent Research in Accounting
- **BA 880 V** Thesis

### Option #6 — Economics

- **BA 805 V** Business Conditions Analysis
- **BA 807 V** Business and Society
- **Econ 855 V** Seminar in Urban Economics
- **Plus 3 hours from the following:**
  - **Econ 810 V** Economic Security
  - **Econ 812 V** Seminar in Labor Economics
  - **Econ 815 V** Seminar in Micro Theory
  - **Econ 820 V** Seminar in Macroe Theory
  - **Econ 825 V** Seminar in International Economics
  - **Econ 828 V** Seminar in Urban Economics

### Option #7 — Management

- **BA 800 V** The Environment of Management
- **BA 805 V** Seminar in Management
- **BA 832 V** Seminar in Personal Analysis
- **BA 835 V** Seminar in Personnel Analysis
- **BA 823 V** Business Information Systems
- **BA 840 V** Marketing Policies

### Option #8 — Banking and Finance

- **BA 850 V** Financial Management
- **Plus 3 hours from the following:**
  - **BA 851 V** Security Analysis
  - **BA 852 V** Seminar in Investment Management
  - **BA 855 V** Seminar in Finance
  - **BA 890 V** Independent Research in Finance
  - **Econ 845 V** Seminar in Money and Banking

### Option #9 — Industrial Psychology

- **BA 801 V** Business and Society
- **BA 822 V** Personnel Analysis
- **Psych 822 M** Psychological Aspects of Industrial Training and Education
- **Psych 901 V** Seminar in Industrial Psychology
- **Plus one of the following four courses:**
  - **Psych 813 M** Research Design
  - **Psych 814 M** Nonparametric Statistics
  - **Psych 910 V** Proseminar: Analysis of Variance
  - **Psych 911 V** Proseminar: Multiple Regression Analysis

### Option #10 — Individually Designed Program

A student under the guidance of the Director of Graduate Studies in Business and Economics and with the approval of the Graduate Catalog of the College of Business Administration must complete a minimum of 15 hours of study. Each program must include **BA 881 V**, Business and Society.

A minimum of 24 semester hours must be completed in courses designated as business administration (BA).

Also, at least 30 semester hours must be at the “V” level of graduate work.

### Student Responsibilities

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

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

Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements.

**CIVIL ENGINEERING**

**Master of Science**

This is a professional graduate degree designed to provide a broad educational background for students who wish to gain greater proficiency and assume positions of greater responsibility in the field of Civil Engineering.
Courses in the program give students a better understanding of the basic principles and methodology used in the design of civil engineering projects. Emphasis is placed on the integration of the principles of strength of materials, fluid mechanics, heat transfer, and design and construction into the curriculum. The program is designed to be of particular interest to students who plan to pursue advanced studies in civil engineering or related fields.

The program is divided into two parts: the first part, required for all students, provides a strong foundation in the fundamental principles of civil engineering, while the second part offers a range of electives that allow students to specialize in areas of interest. The required courses include Mathematics, Statics, Strength of Materials, Fluid Mechanics, Heat Transfer, Structural Analysis, Design of Experiments, and Computer Applications. The elective courses cover a wide range of topics, including geotechnical engineering, environmental engineering, and structural engineering.

Students who complete the program will be well-prepared for careers in the civil engineering field, or for further study at the graduate level. The program is designed to be flexible, allowing students to tailor their coursework to their specific interests and career goals.

For more information, please contact the Department of Civil Engineering at UNL. The department can be reached at (402) 472-4532, or by email at civileng@unl.edu. For additional information, visit the department's website at civil.unl.edu.

COMMUNICATION

Master of Arts
An applicant for graduate study in Communication (Broadcasting or Speech) must present a minimum of 15 undergraduate semester hours in appropriate courses in communication and six hours beyond the introductory course, including advanced work in the area of graduate concentration. Deficiencies must be made up during the first year of graduate study. The student may enter in Communication with or without a minor. Students who intend to become majors must complete one research course (601V), one theory course (602V), and one additional course in the area of major emphasis, and complete one of the following plans of study:

Plan I: Successful completion of 24 semester hours of course work including at least 12 hours in 600V and 600 level classes, plus a thesis (6 credit hours) based on a proposal approved by the student's committee, defended orally before the committee, and an oral examination over the student’s field of study.

Plan II: Successful completion of 36 semester hours of course work including at least 18 hours in 600V and 600 level courses, at least 18 hours must be in the student’s field of concentration, and an independent research or creative project in writing, video, film, or a written examination over his area of major emphasis and minor or area studies, judged by a faculty committee.

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

COUNSELING AND GUIDANCE

Students may begin a program of study in Counseling and Guidance at any one of three starting points during the course of the year. Once a program is begun, students are expected to pursue the program on a continuous enrollment basis. Fulltime study is encouraged, but you may be asked to make a recommendation. After consultation with the committee, on admission to the Graduate College.

Admission to Candidacy

Options for the Masters Degree Bulletin University of Nebraska - Lincoln deems necessary.

Graduate Work.

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

The degree program is offered by the faculty of the merged departments of Civil Engineering at Omaha and Lincoln, and will be administered by the Graduate College, UN-L. The committee will be the Graduate Committee.

Regulations for Graduate Study in Counseling and Guidance will be found in the Graduate College, UN-L, and the Faculty of the merged departments of Civil Engineering at Omaha and Lincoln. Counseling and Guidance is offered twice each year. Students admitted to the programs in Counseling and Guidance twice each year. If students wish to begin the program at a different time from those indicated, they may discuss this with the faculty in the department.

Master of Arts

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

Master of Science

Specialization in Counseling and Guidance

I. Foundation Course
FED 601V, Introduction to Research
FED 602V, Selected Cognate Courses
II. Selected Cognate Courses
These courses are selected in accordance with student's particular area of interest.
III. Counseling and Guidance Courses
COL 851V, Principles of Guidance and Counseling
COL 852V, Introduction to Counseling Theories
COL 853V, Occupational and Educational Information
COL 854V, Research Techniques in Counseling and Guidance
COL 855V, Counseling Practices
COL 856V, Counseling Practicum
COL 857V, Community Internship for Urban Counselors
Selected additional courses in the department.

Specialization in School Counseling — Secondary Level*

I. Foundation Course
FED 981V, Introduction to Research
FED 982V, Selected Cognate Courses
II. Selected Cognate Courses
These courses are often selected from offerings of the Psychology, Sociology, Secondary Education and Special Education departments.
III. Counseling and Guidance Courses
COL 951V, Principles of Guidance and Counseling
COL 952V, Introduction to Counseling Theories
COL 953V, Organizational and Administrative Guidance Services
COL 954V, Occupational and Educational Information
COL 955V, Appraisal Techniques in Counseling and Guidance
COL 956V, Counseling Practicum
COL 957V, Counseling Practicum
Selected additional courses in the department.

Specialization in School Counseling — Elementary Level*

I. Foundation Course
FED 981V, Introduction to Research
PSYCH 981V, Advanced Educational Psychology
FED 982V, Selected Cognate Courses
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
COL 951V, Principles of Guidance and Counseling
COL 952V, Introduction to Counseling Theories
COL 953V, Community Counseling for Young Children
COL 954V, Child Assessment in Elementary School Guidance
COL 955V, Counseling Elementary School Children

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

Students are admitted and permitted to continue programs in Counseling and Guidance on the basis of their potential for successful training and professional practice. Students admitted to the Counseling and Guidance program are expected to satisfy the requirements for continuation in the program. Students admitted to the Counseling and Guidance program are expected to satisfy the requirements for continuation in the program.
Which represent the core undergraduate curriculum. In addition, all candidates must have completed a basic statistics course and a research methods course and have completed a minimum of 15 hours in the Social Science area.

**Master of Arts in Corrections**

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

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

**Related Core Courses**
- (student selects 2 with adviser approval)
- 804V, Seminar in Community Services and Treatment (6 hrs.)
- 805V, Seminar in Criminal Justice Administration (6 hrs.)
- 806V, Seminar in Institutional Reorganization (6 hrs.)
- 807V, Theoretical Criminology (6 hrs.)
- 808V, Seminar in Delinquency Prevention, Control and Correction (6 hrs.)
- 811V, Special Problems in Criminal Justice (6 hrs.)

**Related Cognate Courses**
- (for consultation with adviser 6 hrs. from each of two areas)
- Courses selected with cognate department and adviser approval from Business Administration, Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.
- Completion of an approved thesis.
- Successful oral defense of thesis.

**Master of Science in Corrections**

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

**Required Core Courses**
- 801V, Criminal Justice Planning and Innovation (6 hrs.)
- 802V, Seminar in Administration of Justice (6 hrs.)
- 804V, Seminar in Community Services and Treatment (6 hrs.)
- 805V, Seminar in Criminal Justice Administration (6 hrs.)
- 806V, Seminar in Institutional Reorganization (6 hrs.)
- 807V, Theoretical Criminology (6 hrs.)
- 808V, Seminar in Delinquency Prevention, Control and Correction (6 hrs.)
- 811V, Special Problems in Criminal Justice (6 hrs.)

**Related Cognate Courses**
- (for consultation with adviser 6 hrs. from each of two areas)
- Courses selected with cognate department and adviser approval from Business Administration, Psychology, Social Welfare, Sociology, Public Administration, plus other approved areas.
- Completion of an approved thesis.
- Successful oral defense of thesis.
DRAMATIC ARTS

Master of Arts

An applicant for graduate study in Dramatic Arts must present a minimum of 15 undergraduate semester hours in appropriate courses in dramatic arts beyond the introductory course. Deficiencies must be made up during the first year of graduate study. All students who intend to become degree candidates must complete core requirements consisting of a course in research methods and one theory seminar. As soon as possible after completing the core requirements, the student must schedule and participate in an oral candidacy and placement examination conducted by the Graduate Program Committee or the student’s Graduate Committee (if appointed). Following this examination, the decision will be made as to whether the student will follow a thesis or non-thesis program and a program of studies will be submitted to the Graduate Office. The student must then complete either of the following plans of study approved for him or her:

Option I: Successful completion of 24 semester hours of course work including at least 9 hours in 800V-level courses, plus a thesis (6 credit hours) based on a proposal approved by the student’s committee, defended orally before the committee, plus an oral examination over the student’s field of study.

Option II: Successful completion of 36 semester hours of course work including at least 18 hours in 800V and 899 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.

ECONOMICS

Master of Arts

An applicant for admission to the program for the Master of Arts degree in Economics must have the equivalent of 15 undergraduate semester hours in economics. Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, and 829V.

The course work under the Master of Arts program consists of 24 hours and 6 hours of thesis under course 899, Thesis.

Master of Science

An applicant for admission to the program for the Master of Science degree with a major in Economics must have the equivalent of 15 undergraduate semester hours in economics. Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, and 829V. There are two basic options for students seeking a Master of Science. Option I consists of a total of 36 hours of course work. Option II is provided for those students interested in Urban and Regional Economics. Under this option a student takes 20 hours of course work with at least two three-hour papers. These papers receive credit in 889V and 899V, Urban-Regional Research.

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

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

EDUCATIONAL ADMINISTRATION AND SUPERVISION

Administrative Certification

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

Master of Science

Admission to the Program

1. Applicants must furnish 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 the nine hours do so at their own risk unless such course work has had prior approval by the appropriate advisers. Normally, a student should expect to take no less than 15 approved hours after Admission to Candidacy.
2. Applicants must have taken either the Graduate Record Examination Aptitude Test or the Miller Analogy Examination.
3. Applicants must submit an Admission to Candidacy application which requires reference recommendations and approval of a program by an adviser. This application should be filed 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 promote the student to be either an elementary administrator or a secondary administrator. Applicants with successful completion of one of the programs, only students with three years of teaching experience will receive institutional endorsement.

<table>
<thead>
<tr>
<th>Major in Elementary Administration and Supervision</th>
<th>15 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses (1)</td>
<td>FED 801V, Introduction to Research</td>
</tr>
<tr>
<td>EDAD 840V, Adm. &amp; Superv. in theElem. School</td>
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<tr>
<td>EDAD 840V, Practicum I in EDAD</td>
<td></td>
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<tr>
<td>EDAD 841V, Practicum II in EDAD</td>
<td></td>
</tr>
<tr>
<td>II. Selected courses from the following</td>
<td>12 hours</td>
</tr>
<tr>
<td>EDAD 810V, Research Project in EDAD</td>
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<tr>
<td>EDAD 820V, Data Processing in EDAD</td>
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<tr>
<td>EDAD 830V, Seminar in EDAD</td>
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<tr>
<td>EDAD 840V, Adm. &amp; Superv. in Junior High School</td>
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</tr>
<tr>
<td>EDAD 855V, School Business Management</td>
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<tr>
<td>EDAD 856V, School Finance</td>
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<tr>
<td>EDAD 860V, School Plant Planning and Operation</td>
<td></td>
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<tr>
<td>EDAD 861V, Organization and Admin. of the Physical Plant</td>
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<tr>
<td>EDAD 870V, Administration and Staff Personnel</td>
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<tr>
<td>EDAD 871V, Interpersonal Relationships in EDAD</td>
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</tr>
<tr>
<td>EDAD 880V, Adm. &amp; Superv. of Vocational Education</td>
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</tr>
<tr>
<td>EDAD 881V, Urban School Admin.</td>
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<tr>
<td>EDAD 890V, Administration of Higher Education</td>
<td></td>
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<tr>
<td>EDAD 904V, School Law</td>
<td></td>
</tr>
<tr>
<td>II. Selected courses to be taken outside of the department with advisor’s approval</td>
<td>9 hours</td>
</tr>
<tr>
<td>EDAD 841V, Practicum I in EDAD</td>
<td></td>
</tr>
<tr>
<td>EDAD 856V, School Finance</td>
<td></td>
</tr>
<tr>
<td>EDAD 860V, School Plant Planning and Operation</td>
<td></td>
</tr>
<tr>
<td>EDAD 861V, Organization and Admin. of the Physical Plant</td>
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<tr>
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<tr>
<td>EDAD 880V, Adm. &amp; Superv. of Vocational Education</td>
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<tr>
<td>EDAD 881V, Urban School Admin.</td>
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<tr>
<td>EDAD 890V, Administration of Higher Education</td>
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<tr>
<td>EDAD 904V, School Law</td>
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<tr>
<td>II. Selected courses to be taken outside of the department with advisor’s approval</td>
<td>9 hours</td>
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<td>EDAD 841V, Practicum I in EDAD</td>
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<tr>
<td>EDAD 871V, Interpersonal Relationships in EDAD</td>
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<tr>
<td>EDAD 880V, Adm. &amp; Superv. of Vocational Education</td>
<td></td>
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<tr>
<td>EDAD 881V, Urban School Admin.</td>
<td></td>
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<tr>
<td>EDAD 890V, Administration of Higher Education</td>
<td></td>
</tr>
<tr>
<td>EDAD 904V, School Law</td>
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</tbody>
</table>

Specialist in Education

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

Admission to graduate studies
1. Applicants must fulfill all credentials requested in the standard application for admission to Graduate Studies.

Program Requirements and Procedures
1. Upon admission to Graduate Studies, the applicant must see his adviser in order to obtain an application for admission to the Specialist in Education program.
2. Upon admission to the Specialist in Education program, the applicant returns to his adviser for the purpose of designing a recommended plan of study and selecting a committee of three professors who will determine whether or not the applicant is to be admitted to candidacy.
3. Applicants must hold a Master’s degree from a regionally accredited institution. All graduate work taken by the applicant prior to admission to the program must have a grade point average of 3.25.
4. Applicants must hold a Master’s degree and must be approved by the student’s advisory committee.
5. Applicants must have taken either the Aptitude Test of the Graduate Record Examination or the Miller Analogies Test and have scored at the 30th percentile or better. Candidates with scores falling below those indicated may petition the departmental graduate committee for consideration.
6. Candidates are required to pursue a portion of their work in residence. It may be fulfilled in one of the following ways:
   1. As a full-time student (12-hour load) during one semester of the academic year.
   2. As a full-time student (12-hour load) during two consecutive summer terms of the same summer session.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Required Professional Courses</td>
<td>42-48</td>
</tr>
<tr>
<td>Including work in school finance, school business management, supervision, school law, and field work.</td>
<td></td>
</tr>
<tr>
<td>II. Elective Professional Courses</td>
<td>12-18</td>
</tr>
<tr>
<td>Including selected work in such areas as curriculum, guidance, reading, foundations, and special education.</td>
<td></td>
</tr>
<tr>
<td>III. Selected Cognitive Courses</td>
<td>9-15</td>
</tr>
<tr>
<td>Including selected work in such areas as economics, English, psychology, business administration, sociology, geography, history, speech, mathematics.</td>
<td></td>
</tr>
</tbody>
</table>

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

EDUCATIONAL FOUNDATIONS

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 801V, Introduction to Research</td>
<td>3 Hours</td>
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<tr>
<td>FED 806V, Education and Society</td>
<td>3 Hours</td>
<td></td>
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<tr>
<td>FED 807V, Alternative Strategies in Education</td>
<td>3 Hours</td>
<td></td>
</tr>
<tr>
<td>FED 808V, Urban School</td>
<td>3 Hours</td>
<td></td>
</tr>
<tr>
<td>FED 810V, Practicum or Special Projects</td>
<td>3 Hours</td>
<td></td>
</tr>
<tr>
<td>FED 811V, Conflict and Controversy in Urban Education</td>
<td>3 Hours</td>
<td></td>
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<tr>
<td>FED 833V, Anthropology and Urban Education</td>
<td>3 Hours</td>
<td></td>
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<tr>
<td>FED 816M, Mental Health</td>
<td>3 Hours</td>
<td></td>
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<tr>
<td>FED 889M, Growth and Learning Problems of the Disadvantaged</td>
<td>3 Hours</td>
<td></td>
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<tr>
<td>FED 895V, Seminar in Education</td>
<td>3 Hours</td>
<td></td>
</tr>
<tr>
<td>Allied Electives (9 Hours)**</td>
<td>3 Hours</td>
<td></td>
</tr>
<tr>
<td>Economics</td>
<td>3 Hours</td>
<td></td>
</tr>
<tr>
<td>ECON 811M, Government and Labor</td>
<td>3 Hours</td>
<td></td>
</tr>
</tbody>
</table>
UNIVERSITY OF NEBRASKA AT OMAHA

ECON 816M, Collective Bargaining ....................................................... 3 Hours
ECON 850V, Economic Education .......................................................... 3 Hours
ECON 860V, Economic Education II ...................................................... 3 Hours
ECON 860V, Independent Study in Urbanism ........................................ 3 Hours
ECON 864V, Interdisciplinary Seminar on Urban Community ....................... 3 Hours
ECON 866V, Seminar in Urban Economics ............................................. 3 Hours

COUN 880M, Guidance Skills for Secondary Teachers ................................ 3 Hours
COUN 881M, Group Evaluation Techniques ............................................ 3 Hours
COUN 829V, Community Involvement for Urban Counselors ....................... 3 Hours
COUN 829V, Guidance Services for the Disadvantaged Youth ...................... 3 Hours

GEOG 819M, Urban Geography ............................................................ 3 Hours
GEOG 899M, Urbanization ................................................................. 3 Hours
GEOG 821V, Cultural Geography .......................................................... 3 Hours

HIST 821K, American Social and Intellectual History since 1865 ..................... 3 Hours
HIST 827M, 20th Century America, 1933 .............................................. 3 Hours
HIST 828M, 20th Century America, 1933 to present ................................ 3 Hours
HIST 844M, American Urban History Since 1875 .................................... 3 Hours

POLS SCI 812M, Public Opinion and Political Behavior ................................ 3 Hours

PSY 856V, Learning in Children ............................................................ 3 Hours
PSY 859V, Social and Personality Development ...................................... 3 Hours
PSY 863V, Tests and Measurement ....................................................... 3 Hours

SOC 801M, Social Control of Behavior ................................................... 3 Hours
SOC 802M, Collective and Exchange Behavior ......................................... 3 Hours
SOC 822M, Advanced General Sociology ............................................... 3 Hours
SOC 810M, The Community .................................................................... 3 Hours
SOC 811M, Sociology of Deviant Behavior ............................................... 3 Hours
SOC 814M, Seminar in Cross Cultural Communication (also 855M Speech) ...... 3 Hours
SOC 862M, Complex Social Organizations ............................................. 3 Hours
SOC 875M, Social Change ...................................................................... 3 Hours
SOC 889M, Independent Study in Urbanism .......................................... 1-3 Hours

Business Administration
BA 851V, Business and Society .................................................................. 3 Hours
BA 831V, Human Behavior in Organization .............................................. 3 Hours

CE 889M, Urban Systems I ...................................................................... 3 Hours
GEOG 810M, Educational Geography .................................................... 3 Hours

JOUR 827M, Public Relations ................................................................. 3 Hours
JOUR 859M, Mass Communication and Public Opinion .............................. 3 Hours

Urban Studies
US 810V, The Metropolis as a Public Enemy ............................................. 3 Hours
US 820V, Race Ethnicity, and American Urban Culture .............................. 3 Hours

Other courses may be substituted with approval of Urban Committee

**ELEMENTARY AND EARLY CHILDHOOD EDUCATION**

Master of Arts

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

Master of Science

Admission to the Program

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

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

Candidacy for the Degree

1. A plan of study and admission to candidacy are completed in conference with the student's adviser when nine (9) hours of graduate work have been completed. This plan of study must be approved by the Department and the Graduate Office.

2. A written comprehensive examination is required during the semester in which a student completes the program. Application for the examination must be made by the student at least 30 days before the examination. The examination covers coursework taken and its content is determined by each individual student's program.

Degree Program

Required Courses ...................................................................................... 21 hours
FED 801V, Introduction to Research ....................................................... 3 Hours
FED 862V, History and Philosophy of Education ...................................... 3 Hours
EED 819V, Diagnostic and Corrective Instruction .................................... 3 Hours
EED 851V, Innovations and Trends in Elementary Education ..................... 3 Hours
EED 862V, Introduction to Curriculum Planning — Elementary Education .......... 3 Hours
EED 864V, Seminar in Elementary Education ......................................... 3 Hours

Kindergarten Education
KED 846V, Administration of Early Childhood Programs .......................... 3 Hours
KED 865V, Assessment Procedures in Early Childhood Education ................. 3 Hours

I. Area of Concentration ........................................................................ 1-3 Hours
II. Area of Concentration ....................................................................... 1-3 Hours
III. Elective .................................................................................................. 3 Hours

Non-Degree-Seeking Students

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

ENGLISH

Master of Arts

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

All candidates for Master of Arts degrees 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 A: Successful completion of 24 credit hours in course work, including at least 12 hours in 800V- or 900-level courses, plus a thesis (6 credit hours) on an approved topic accepted and judged by a faculty committee.

Plan B: Successful completion of 36 credit hours in course work, including at least 16 hours in 800V- or 900-level courses, plus a written examination prepared and judged by a faculty committee.

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

English 809V, 809V, 809V, 810V, 820V, 889V, 891, 512, 515.

GEOGRAHY AND GEOLOGY

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

The Master of Arts with a major in geography is intended for those preparing themselves in areas other than physical geography, whereas the Master of Science with a major in geography is intended for students entering to do major work in physical geography. Each degree has two options:
To be admitted to this degree program, students must possess an undergraduate major or minor. Admission Requirements

An applicant for admission to either the Master of Arts or the Master of Science degree program in geography must present a prerequisite of 15 undergraduate semester hours of geography including Physical (106 or 107 or 117) and Cartography (363) or the equivalent. Students who do not meet these requirements must make up the deficiency during their first year of graduate study.

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

Basic courses required for either an M.A. or M.S. degree include Geography Concepts; History and Philosophy of Geography; 301V; and Field Geography, 861V. In addition, all students will be required to attend General Seminar. The remainder of the program shall consist of courses selected by the student with the advice and consent of an advising committee.

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

Master of Science

Major in Physical Education

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

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<tr>
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<tr>
<td>I. PE Core</td>
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<tr>
<td>PE 800V Problems and Issues in Physical Education</td>
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<td>PE 843V Kinesiological Analysis of Motor Skills</td>
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<tr>
<td>II. Research</td>
<td>Min</td>
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<tr>
<td>Research Methods, Statistical Methods</td>
<td>18</td>
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<tr>
<td>Professional Specialization</td>
<td>18</td>
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<td>Improvement of Instruction</td>
<td>18</td>
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<tr>
<td>Teaching Seminars, Workshops, Independent Research, Special Studies</td>
<td>18</td>
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<tr>
<td>III. Related Academic Courses</td>
<td>Min</td>
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<tr>
<td>V. Thesis</td>
<td>6</td>
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*Minimums or maximums are determined by advisor.

HISTORY

Master of Arts

Admission to M.A. Program

1. To be admitted unconditionally a student must present 21 (twenty-one) hours of undergraduate preparation in History with at least a 3.00 average in those hours; further, to be admitted unconditionally, the student must have achieved a grade average of 2.75 in his overall undergraduate work and must follow all 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 in courses numbered 861V. A balance of 15 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 6 hours of credit is assigned the thesis project, it should be noted at least half of the total program must be in courses open only for graduate credit.

M.A. Program without Thesis (Option II)

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

2. In addition to 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 minor is granted by the student's major adviser 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 accordance with the chairperson of the Graduate Program Committee of the Department of History, choose his adviser. The chairperson of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the Dean for Graduate Studies and Research.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

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

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

PROCEDURE FOR COMPREHENSIVE EXAMINATION FOR
NON-THESIS MASTER OF ARTS CANDIDATES IN HISTORY
1. Early in the semester the candidate expects to take the degree, he/she must make arrange-
ments 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 courses taken
      for the minor. The major area examination will be of six hours duration (two-three-segment,
      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, di-
      vided into two three-hour segments, with the breaking point for the two segments
      normally following the breaking point of the American history survey (history 11-112)
      course. The minor portion of the examination will be over the specific minor courses
      taken, and will be of three hours duration.
   c. If the candidate offers an outside minor, the minor department and advisor will be re-
      sponsible for the minor examination.
3. The reading committee will consist of the sponsor and one other graduate faculty member
   expert in the major area. The readers for the minor area will be the instructors of the courses
   offered in the minor. In the major area, the selection of the second reader shall be made by
   the sponsor and candidate. Both readers of the major and all readers of the minor area must
   agree that the candidate has passed the examinations for which they are responsible. In
   the event of disagreement, a third reader may be consulted as a mediator, and the result he/she
   supports will 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 no opportuni-
   ties 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 and Research, certifying the candidate for conferral of the de-
   gree.

HOME ECONOMICS

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

UNO courses may also be used to satisfy recertification.

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 for a graduate degree program in Home Economics is to be made to Graduate Stud-
ies, Lincoln Campus. In addition to this, an important step to initiate a graduate program to consult
with the chairmen of the appropriate department in Lincoln. Dean Hall, Omaha Division, will assist in
making such appointments. For a graduate degree in Home Economics, it will normally be neces-
sary to take some courses on the Lincoln campus, though additional graduate courses that are being
run by the College of Home Economics are being developed. Such courses will be available in Omaha
periodically dependent on demand and staff.

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 have included the equivalent of 24
hours in Home Economics, distributed in at least three subject matter areas and 20 hours in Natural
and Social Sciences including a minimum of 9 hours in the Natural and 6 hours in the Social Sci-
ences.

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 major areas are, Education and Family Resources;
Food and Nutrition; Human Development and the Family; Textiles, Clothing, and Home Furnishings.
At least 6 hours of the remaining work must be completed in one or more of the subject matter areas other
than the major one. Additional supporting courses to complete the program may be carried in coop-

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

**Master of Arts**

**Degree Requirements:** The course program must include twelve hours of the required thirty hours in psychology plus 9 hours in a related minor field. Up to 6 hours of thesis credit are to be included in this total. The student must take at least half of his work in courses which are open only to graduate students.

**Master of Science**

**Degree Requirements:** For the Master of Science degree in a major in Psychology, eighteen hours of the required thirty-six hours must be 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 needs.

**PSYCHOLOGY**

**Admission Requirements:** A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing research methodology, data collection, statistical analysis, and report writing; Graduate Record Examination scores on the General, Quantitative, and Advanced Psychology sections; and a good baccalaureate record. Exceptions to these admission requirements can be made on an individual basis.

**Degree Requirements:** To complete the M.A. degree with a major in psychology, the student must present 30 hours of graduate course work in psychology, or 21 hours in psychology plus 9 hours in a related minor field. Up to 6 hours of thesis credit are to be included in this total. The student must choose one course from each of the four following groups. These courses must be completed within the first 16 hours of graduate work. 

1. **A. Psychology 804 (Proseminar in Learning)**
2. **B. Psychology 806 (Proseminar in Personality)**
3. **C. Psychology 892 (Proseminar in Perception)**
4. **D. Psychology 823 (Proseminar in Psychological Physics)**
5. **E. Psychology 910 (Proseminar in Analysis of Variance)**
6. **F. Psychology 911 (Proseminar in Factor Analysis)**
7. **G. Psychology 942 (Proseminar in Personality)**
8. **H. Psychology 944 (Proseminar in Social Psychology)**
9. **I. Psychology 956 (Proseminar in Development)**

The student must earn a grade of at least B in the four required proseminars. If a C is earned, or a withdraw (W) is recorded, in one proseminar the course may be repeated or the other in the group may be taken. Should two such grades (C and/or W) be recorded, the student will be dropped from the degree program. Under special circumstances (e.g., a W recorded in a required course, a unique academic record, etc.) the department 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: quantitative, physiological, general experimental, social, personality, developmental, educational, and industrial/organizational psychology. Final determination of a student’s plan of study always resides with his 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**

**Degree Requirements:** To complete the M.S. degree with a major in industrial/organizational psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology, or 24 hours in psychology plus 9 hours in a related minor field. The M.S. degree has the same proseminar requirement as the M.A., and all rules concerning proseminar courses are the same in both degree programs. Additional required coursework may be designated by the department. This will ordinarily include up to three hours of credit in 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.

**Specialist in Education**

During the 1977-78 academic year the Psychology Department will be offering the Specialist in Education degree with an emphasis on school psychology for the first time. The Ed.S. degree requires completion of sixty-six graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as those for students seeking certification as a School Psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

**Doctor of Philosophy**

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and school psychology, and in developmental psychology. Students may be considered for admission to a doctoral program by the department if they have completed or are doing excellent work toward their Master’s degree which includes a demonstration of research skills. There is generally no specified language or research skills requirement. 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 and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

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

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

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

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

**School Psychologist**

Successful completion of work leading to a recommendation for certification as a school psychologist. Application for such admission must be filed with the Psychology Department accompanied by a vita and three letters of reference. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. The application should include two official transcripts of all previous college work and scores for the Graduate Record Examination Aptitude Test. Before a final decision is made concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee. The minimum degree requirement is 36 semester hours of work beyond the Master’s degree. Students meeting the above requirements may be admitted as candidates for the degree. The student must complete requirements for the Master of Science in Psychology as described below. In addition to the courses required for the thirty hours beyond the Master’s degree the student must complete requirements for the Master of Science in Psychology.

**Doctor of Philosophy**

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and school psychology, and in developmental psychology. Students may be considered for admission to a doctoral program by the department if they have completed or are doing excellent work toward their Master’s degree which includes a demonstration of research skills. There is generally no specified language or research skills requirement. 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 and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

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

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1. Admission to the University Graduate College by the evaluation of official transcripts presented in person or by mail prior to registration.
2. Registration after consultation with advisers in major and minor departments.
3. Submission to the UNL Graduate Office of a supervisory committee on the recommendation of the departmental or area Graduate Committee.
4. Submission to the UNL Graduate Office of a program approved by the supervisory committee setting forth the complete plan of study for the degree prior to completion of more than half of the minimum requirements.
5. Satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor related fields when the student’s program of courses is substantially completed.
6. Submission to the UNL Graduate Office of a report from the supervisory committee on the specific research for the dissertation and progress to date.
7. Admission to candidacy for the Ph.D. degree by filing a report in the Graduate Office of the program, comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination). The term of candidacy is limited to three years.
8. Filing of an application for the degree at the registration and records office, Information Window, 208 Administration Building at UNL. This application is effective during the current term or the following term but may be approved at the appropriate time if requirements for graduation are not completed until during a later term.
9. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks prior to the date of that examination.
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**Professional Programs in the Area of School Psychology**

**School Psychologist**

Successful completion of work leading to a recommendation for certification as a school psychologist. Application for such admission must be filed with the Psychology Department accompanied by a vita and three letters of reference. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. The application should include two official transcripts of all previous college work and scores for the Graduate Record Examination Aptitude Test. Before a final decision is made concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee. The minimum degree requirement is 36 semester hours of work beyond the Master’s degree is required for the recommendation. Filing of an acceptable plan of study with the Graduate Studies Office will be required on admittance to the program. Students will arrange their programs according to the subject matter and needs below. In addition to the courses required for the thirty hours beyond the Master’s degree the student must complete requirements for the Master of Science in Psychology as described below.
equivalent. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of electives. However, the final decision on the appropriateness of a program rests with the Psychology Department. Students should contact the School Psychology Committee when starting their studies in order to facilitate individual program planning.

1. Required Courses in Psychological Methods
   - Psychology 851M (or 431) Psychological and Educational Testing
   - Psychology 800V The Profession of Psychology
   - Psychology 853V Individual Tests
   - Psychology 854V Individual Tests II
   - Psychology 851V Advanced Educational Psychology

2. Psychological Assistant
   - Psychology 855M (or 455) Petardation
   - Psychology 695M (or 455) Psychology of Exceptional Children
   - SFED 806V Teaching the Exceptional Child
   - SPED 860M (or 460) Introduction to the Mentally Subnormal Child

3. Required Professional Education Courses
   - COUN 924V Counseling Practices
   - EDAG 830V Foundations of Educational Administration and Supervision
   - SED 830V Emerging School Curriculum

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

5. Psychological Assistant
   - Students who are pursuing work toward an endorsement in Nebraska as a Psychological Assistant must simultaneously complete requirements for the M.A. or M.S. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they apply 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 830V 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 857V. Also, one of the following is required: Psychology 855M (455), SFED 806V, or SPED 860M (460). The student must also have had coursework in both learning and developmental psychology.

PUBLIC ADMINISTRATION

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 those already in the public service who are seeking professional training; (3) for research or teaching in this field.

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

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

For students to be admitted unconditionally to the M.P.A. program they must have completed at least 90 semester hours of college credit with a cumulative grade point average of 2.50 or better. Students who have less than 90 hours of college credit may be eligible for conditional admission if they have more than 90 hours of deficiencies (as determined by the Departmental Graduate Committee) which can be removed before the student is admitted. Students should contact the School of Public Administration when starting their studies in order to facilitate individual program planning.

Required Professional Education Courses

- COUN 924V Counseling Practices
- EDAG 830V Foundations of Educational Administration and Supervision
- SED 830V Emerging School Curriculum

Required Supporting Work

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

Required Professional Education Courses

- COUN 924V Counseling Practices
- EDAG 830V Foundations of Educational Administration and Supervision
- SED 830V Emerging School Curriculum

Required Supporting Work

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

Courses Required of All Options

- P.A. 840M, Public Budgeting & 848V Seminar in Public Financial Management if credit has been earned in 440/840M
- P.A. 848V Seminar in Public Personnel Management if credit has been earned in 441/841 M
- P.A. 849V, Seminar in Research Methods in Political Science and Public Administration
- P.A. 850V, Seminar in Research Methods in Political Science and Public Administration
- P.A. 860V, Seminar in Research Methods in Political Science and Public Administration
- P.A. 870V, Seminar in Professional Development in Public Agencies
- P.A. 893U-894U, Internship

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

- P.S. 804M, The Legislative Process
- P.S. 825M, The Judicial Process
- P.A. 843M, Municipal Administration
- P.A. 810V, Seminar in Public Administration
- Econ 850M, State and Local Finance
- P.S. 815V, Seminar in Public Law
- P.A. 820V, Seminar in Public Policy
- P.A. 845V, Seminar in Public Personnel Management
- Econ 850M, State and Local Finance
- P.A. 860V, Seminar in Administrative Law
- Econ 857V, Seminar in Regional Economics
- P.A. 892V, Readings in Public Administration
- P.A. 894V, Research in Public Administration

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

- Gero 811M, Applied Social Gerontology
- Gero 855M, Health and Aging
- Gero 857M, Gerontology Psychology
- Gero 862M, Special Studies in Gerontology

Local Government Option (15 hours from the following selected list in consultation with Adviser. It...
### SECONDARY/POST-SECONDARY EDUCATION

#### Major in Secondary Education

Programs in Secondary Education are developed on an individual basis by the student and his advisor. They are designed to extend academic background the instructional skills of secondary school teachers.

To pursue degree work in the Department, students must hold a valid secondary teaching certificate. During the first semester of enrollment, students must take the Graduate Record Examination including the Advanced Test in Education. To be admitted to candidacy the composite scores on the Verbal, Quantitative, and Advanced GPA Tests must total at least 1200. Students are expected to file their Application for Candidacy before they complete more than 18 hours of graduate work and no more than 18 hours of completed course work may be included in the proposed program of graduate studies.

#### Master of Science

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

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<th>AREA</th>
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<td>I. SEL Core</td>
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<td>SEL 825V</td>
<td>Seminar in Secondary Education</td>
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<td>Plus one of the following:</td>
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<td>SEL 900X</td>
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<td>SEL 802V</td>
<td>Seminar for Cooperating Teachers</td>
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<td>SEL 832V</td>
<td>Emerging School Curriculum</td>
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<td>SEL 832V</td>
<td>Analysis of Teacher Behavior</td>
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<td>SEL 950V</td>
<td>Simulation Gaming Laboratory for Secondary Teachers</td>
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<td>SEL 950V</td>
<td>Seminar in Applications of Non-Verbal Communication Theory</td>
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<td>II. Research</td>
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<td>IV. Related Professional Courses</td>
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#### Master of Arts

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

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#### Social Work

#### The Profession of Social Work

Social work is one of the "helping professions" concerned with the quality of human life. Specifically, the social worker is concerned with man's ability to function meaningfully and effectively in transaction with his environment (i.e., his family, friends, associates, and the community at large). The social worker brings systematized knowledge to bear on his dealings with people individually, in families, in other group and collective associations, with communities, societies, and other 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 struggles to "provide for the general welfare" as well as to help the people, families, groups, and institutions within the society toward self fulfillment.
48 UNIVERSITY OF NEBRASKA AT OMAHA

Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. There are two programs leading to the Master of Social Work degree. One requires 55 credit hours in graduate social work study for completion, usually requiring a minimum of two full academic years. An advanced standing program requires 35 credit hours in graduate social work study, usually requiring a full calendar year of work. Individual student programs for either option must be planned by the student together with the faculty of the School. In the 55 credit hour program, not less than 25 hours must be completed at the University of Nebraska, and not less than 14 must be in practicum. In the 35-hour option, all work must be completed at the University of Nebraska, and not less than 8 must be in field work.
3. Both options require completion of an individual or group research requirement or its equivalent as defined by the School. The type and credit value of each of the courses is indicated in the course descriptions below.
4. 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 graduate study.
5. There are two programs leading to the Master of Social Work degree. One requires 55 credit hours in graduate social work study for completion, usually requiring a minimum of two full academic years. An advanced standing program requires 35 credit hours in graduate social work study, usually requiring a full calendar year of work. Individual student programs for either option must be planned by the student together with the faculty of the School. In the 55 credit hour program, not less than 25 hours must be completed at the University of Nebraska, and not less than 14 must be in practicum. In the 35-hour option, all work must be completed at the University of Nebraska, and not less than 8 must be in field work.
6. 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 graduate study.

SOCIOLOGY

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

The M.A. degree should be sought by students preparing for college-level teaching and continuing academic work; the M.S. degree is 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 demonstrate proficiency in sociology through successful completion of four comprehensive examinations.

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

The M.S. degree is preparation for field or action application of sociology.

Colloquia

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

SPECIAL EDUCATION

Master of Arts

With a Major in Speech Pathology

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

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)
2. Submit two letters of recommendation from people who know your undergraduate work well.
3. Have successfully completed a minimum of twenty-four semester hours of work 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, Speech Science I; SPED 444, Speech Path II; SPED 443, Speech Path I; SPED 433, Speech Reading and Auditory Training; SPED 448, Speech Science II; SPED 450, Communicative Disorders in the Elementary and Secondary Schools, SPED 475, Childhood Language Disorders.
4. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
5. Twenty-four-hour semester hours of course work and practicum. These hours may be taken from the following:
   a. Core Professional Courses
   b. Elective Courses
   c. Required Courses

Graduate Catalog 49

WITH A MAJOR IN MENTAL RETARDATION

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

1. Applicants to the M.A. degree program in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major 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 coursework 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:
   a. Required Courses
   b. Elective Courses

Graduate Catalog 49

Degree of Master of Social Work

The Master of Arts degree with a major in Speech Pathology involves these requirements:

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)
2. Submit two letters of recommendation from people who know your undergraduate work well.
3. Have successfully completed a minimum of twenty-four semester hours of work 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, Speech Science I; SPED 444, Speech Path II; SPED 443, Speech Path I; SPED 433, Speech Reading and Auditory Training; SPED 448, Speech Science II; SPED 450, Communicative Disorders in the Elementary and Secondary Schools, SPED 475, Childhood Language Disorders.
4. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
5. Twenty-four-hour semester hours of course work and practicum. These hours may be taken from the following:
   a. Core Professional Courses
   b. Elective Courses
   c. Required Courses

Graduate Catalog 49

Degree of Master of Science

The Master of Science degree with a major in reading conforms to standards of the International Reading Association for the professional training of Reading Specialists. Applicants for admission must be eligible for teacher certification at the undergraduate level. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.
Major in Speech Pathology

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

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

2. Have successfully completed a minimum of twenty-four semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
   - SPED 341, Introduction to Communication Disorders
   - SPED 422, Speech, Hearing, and Auditory Training
   - SPED 437, Hearing, Loss and Audiology
   - SPED 423, Speech Science I
   - SPED 443, Speech Pathology I
   - SPED 444, Speech Pathology II
   - SPED 445, Speech Science II
   - SPED 460, Communication Disorders in Elementary and Secondary Schools
   - SPED 451, Basic Practicum Speech
   - SPED 452, Speech Pathology I
   - SPED 453, Seminar in Speech Pathology

3. To be admitted as a candidate for the M.S. degree with a major in Mental Retardation the student must have successfully completed thirty-six hours of course work and practicum and for the first sixty hours, will be required to pass a written, and/or examination prior to his being recommended for the M.S. degree in Major in Mental Retardation.

Elective Courses in Related Areas

Depending upon the student's preparatory work, course may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas.

Major in Teaching the Deaf

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

A Nebraska standard certification and a CEC professional certification will be recommended upon satisfactory completion of the program.

- SPED 311, Audiovisual Education and Guidance of the Deaf
- SPED 312, Teaching of Speech to the Deaf I
- SPED 313, Teaching of Speech to the Deaf II
- SPED 314, Teaching Language to the Deaf I
- SPED 315, Teaching Language to the Deaf II
- SPED 320, Speechreading and Auditory Training
- SPED 321, Basic Audiology
- SPED 322, Auditory and Speech Mechanisms

Major in Teaching the Mentally Retarded

The Master of Science degree with a major in teaching the mentally retarded is based on the standards for the certification of teachers of the mentally retarded as broad study investigations for students who wish to improve and expand their competencies necessary for the individual proficiency in teaching mentally retarded children. State certification in EMH and TMH teaching are also available through this program. The following program requirements must be fulfilled:

1. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the Major Advisor.

2. Applicants should hold a valid teaching certificate. Those not holding teaching certificates will be required to 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 her/his related experiences in teaching children).

3. To be admitted as a candidate for the M.S. degree in Mental Retardation the student must have successfully completed thirty-six hours of course work and practicum and enrolled for their six hours, will be required to pass a final written and/or examination prior to his being recommended for the M.S. degree in Major in Mental Retardation.

Elective Courses in Related Areas

Depending upon the student's preparatory work, course may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas.

Major in Resource Teaching in Learning Disabilities

The "Resource Teacher in Learning Disabilities" program within the Department of Special Education is a graduate program offering a Master's degree in Special Education with a major in certification in the area of Resource Teaching in Learning Disabilities. Students are provided varied learning experiences which will prepare them to assume the following roles or positions:

1. Special class teacher with certification in learning disabilities providing educational programs for children who are mild EMH, LD, Mild ED, RE.
2. Resource Room Teacher with certification as a resource teacher providing consultative services to regular class teachers and special class teachers and providing direct services to children (mild ED, LD, mild ED, RE) in tutorial or small group settings.

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

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

1. Formally and informally analyze, assess, and diagnose children with learning and/or behavior problems.

2. design, develop, and implement intervention techniques and strategies for learning and behavioral needs;

3. develop and practice communication skills and techniques for the purpose of conveying diagnostic findings, educational and behavioral needs to children, parents, teachers, administrators, and others who may have a direct or indirect interest in the child;

4. design, develop, and implement organizational plans for classroom and resource programs and for clinical operations.

Handicapping conditions associated with all functions relate primarily to EMH, LD, ED, and RE.

Program Requirements

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

Entrance Requirements

1. Students must hold a Bachelor’s degree with a teacher’s certificate in one or more teaching areas.

2. Students must have completed three years of successful teaching experience before enrollment will be granted.

3. Students must take pre-competency examinations (oral and/or written) within the first nine (9) hours of course work before a final plan of study will be made. (Under this requirement, the student is subject to prerequisite course failures, during, or after completion of the nine hours. This is required in order to help the student attain those competencies necessary for the completion of the program.)

4. Students must fulfill all other entrance requirements as required by the Graduate College of the University of Nebraska at Omaha.

Course Work

I. Thirty (30) credit hours must be completed for endorsement as a Resource Teacher in Learning Disabilities.

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

Required Courses

A. Analysis of the Learner - 9 hours from the following:

SPED 840M, Learning Disabilities

SPED 911, Problems in Teaching Reading Elementary

PSY 656, Learning Disabilities

PSY 658, Linguistic & Cognitive Development

PSY 659, Social & Personality Development

SPED 880M, Emotional Development in Children & Youth

SPED 847V, Neurophysiology of Speech and Language (Speech Science III)

SPED 885V, Interdisciplinary Approaches to Developmental Disabilities

SPED 875M, Childhood Language Disorders

B. Testing and Evaluation Techniques - 5 hours from the following:

SPED 876V, Diagnosis of Learning Disabilities

SPED 811V, Diagnostic and Remedial Instruction in Reading

COUN 831, Child Assessment in Elementary School Guidance

PSY 831, Psychological and Educational Testing

URBAN STUDIES

M aster 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. Professional corporations as well as public agencies who have both a 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 remedial study may be prescribed which he must complete before he is accepted 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 863V, 864V, 861V, 862V, 860V, and History 844M or 812M, and a course in research methods. Courses applicable to the area of concentration may include, but are not necessarily limited to, Political Science 860M, 843M, 865V, Public Administration 860V, 845V, 842V, Geography 881V, Psychology 881, Social, 847V, 810M, 841M, 852M, 868M, 895M, 862M, 811M, Gerontology 810M, 822M, Counseling 859M, 822V, 87V, Community and Regional Planning 810M, 811M, Economics 865V, 868V, 867V, 886V, History 843M, 811M, Geography 881V, 812M; or many of the courses listed above.

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

A comprehensive final examination is required, although a thesis is not required.

The Master of Science degree in 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.
COURSE DESCRIPTIONS

Art

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

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

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

831V Graduate Sculpture (3) Advanced problems in a particular sculpture media. Prereq: Art 451 and permission.

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

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

Biology

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

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

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

353/853M Flora of the Great Plains (3) The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants, found in the great plains. Prereq: For 353, Biology 145, junior-senior. For 853M, Biology 145.

354/854M Morphology of Higher Plants (4) A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends. Prereq: For 354, Biology 145, junior-senior. For 854M, Biology 145.


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

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

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

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

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

416/816M Limnology (4) A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment. Prereq: For 416, Biology 145, 175, and organic chemistry. Junior-senior. For 816M, Biology 145, 175, and organic chemistry.

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

427/827M Animal Behavior (3) Behavior of diverse animals for the understanding of the relationships between nervous integration and...
the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. Prereq: For 427, Biology 155 and Psychology 101 or permission of the instructor. Junior-senior. Lecture only: For 872m, Biology 175 and Psychology 101 or permission of the instructor. Junior-senior. Lecture only: (Same as Psychology 427/872m).

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

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

443/843M Mycology (3) A lecture and laboratory course in the collection, cultivation, identification and life cycle offungi. Prereq: For 443, Biology 145. Junior-senior. For 843m, Biology 145.

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

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

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

472/872M Experimental Endocrinology (3) Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: For 472, a course in endocrinology, concurrent registration in Biology 473 or permission of instructor. Junior-senior. For 872m, a course in endocrinology, concurrent registration in Biology 873m, or permission of the instructor.

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

For 873m, organic chemistry, vertebrate anatomy, endocrinology or permission of the instructor.

474/874M Animal Physiology (4) A study of the general biology of the subphylum verte- 

brates including the anatomy, physiology and ecology of vertebrate representa-
stives. Prereq: For 474, Biology 175. Junior-
senior. For 874m, Biology 175.

484/884M Herpetology (4) The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification with emphasis on north american groups. Prereq: Biology 175.

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

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

492/892M Parasitology (4) Taxonomy, physiology, pathology, epidemiology, dissemination, and control of the protozoan parasites, helminths, and arthropods. Prereq: Biology 175.

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

498/898M Ornithology (4) An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, and evolution. Prereq: For 498, Biology 175. Junior-senior. For 898m, Biology 175.

801V Seminar in Biology (1) A study of current research in any of the divisions of biology. Graduate students in biology must complete this course twice for credit. Prereq: Graduate standing.

802V Problems in Biology (2) Research investigation in various areas of biology. Prereq: Graduate standing. Laboratory experience and permission of instructor.

804V Current Topics in Botany (2) Survey of recent literature in one or more of the following areas of botany: Physiology, morphology, anatomy, ecology, taxonomy, economic botany, genetics, cytogenetics. Prereq: Grad.

Standing in biol., an advanced botany course or permission of the instructor.

805V Current Topics in Microbiology (2) Course examination of one or more of the following areas of microbiology: Morphology and development, physiology, genetics, taxonomy and evolution. Prereq: For 805, Biology 344 or permission of the instructor. Junior-senior.

807V Current Topics in Zoology (2) Survey of the following areas of zoology: Taxonomy, morphophysiology, ecology, physiology, behavior, zoogeography, genetics. Prereq: Graduate standing and permission.

813V Environmental Biology (3) A study of the recent advancements in environmental biology, concentrating on the areas of population dynamics, community interaction and ecosystems theory. Readings, discussions, laboratory, and 175m report. Prereq: Graduate standing in biology and/or permission of the instructor.

815V Plant Ecology (4) Advanced study of the relationships of plants with their environment, vegetation, and techniques used in evaluating vegetation and vegetative communities. Prereq: Biology 334/834, ecology or permission.

816V Experimental Genetics (3) Lecture and laboratory, involving experimental organisms such as drosophila spp., nematodes spp., a. Coli and I4 Phage. Prereq: Biology 214.

818V Biosystematics (3) A study of principles and techniques in animal and plant biosystematics. The course will focus on the principles and problems of systematic zoology and botany, at the generic level, and the written report. Prereq: Graduate standing in biology and permission of the instructor.

823V Biomorphology (3) A study of the morphology and anatomy of organisms in relation to support, circulation, respiration, specialization, sensory receptors, and the written report. Prereq: Graduate standing in biology and permission of the instructor.

833V Advanced Topics in General Physiolog-
y (3) Studies in general physiology including the general physiology of birds, the regulation of metabolic pathways, temperature-regulated phenomena, and cyclophagy. Lecture, laboratory, and written report.

873V Environmental Physiology (3) A detailed study of selected dynamic environmental factors and mechanisms of physiologic adaptation by organisms of various taxa. Prereq: General physics, algebra, animal physiology, or permission of instructor. Graduate.

899 Thesis (1-6) Independent research project written under the supervision of a faculty committee.

Black Studies

450/850M International African Community Field Research (3-6) Comparative political culture observations of selected black communities in the African Diaspora and the international black communities in various countries. Prereq: For 450, Biology 344 or permission of the instructor. Junior-senior. For 850m, Biology 344 or permission of the instructor. Junior-senior. For 850m, Biology 344 or permission of the instructor.

Banking and Finance

456/856M State and Local Finance (3) 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. Prereq: Econ 201 and 202.

Economics

418/818M Collective Bargaining (3) A study of the issues, structures, and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract. Prereq: Econ 315. Fall in even-numbered years.

426/826M Evolution of Economic Thought (3) Tracing the evolution of economic thought from the medieval to the Keynesian period. Focus is on the interactions of institutional milieu, thought, and economic doctrine. Prereq: Econ 201 and 202. Fall in even-numbered years.

430/830M Quantitative Applications in Economics and Business (3) The study and application of modern quantitative methods to the problem solving in economics and business. Prereq: Econ 201 and D.S. 212 or permission of the instructor.

445/845M Monetary Theory and Policy (3) The study of monetary economics and its applications to the general framework of economic development; investment priorities, and the determination of exchange rates. Prereq: Econ 345. Fall in odd-numbered years.


MA

800V Quantitative Methods (3) The study of the quantitative methods and models used in economics, decision making, and other fields. Prereq: DS 213 or BA 816.

801V Business and Society (3) The exploration of the diversity of societal forces and requirements which produce continued transition in the system of American capitalism. Prereq: BI 403, BI 446 or BA 812.)
446/846M Steel Design

The application of engineering principles to the movement of ground water. The influence of the physical and geometric environment on ground water, water well hydraulics and aquifer evaluation. Emphasis is placed on computing principles, simulation and scheduling problems. Prerequisite: For 458, Math 197 and GE 331 or equivalent. For 846M, graduate standing and permission of the instructor.

461/861M Urban Transportation Planning (3)

Interpretation, objectives and goals, data collection procedures and urban travel forecasting techniques, trip generation and assignment and modal choice analysis. Mass transit system design, operation and evaluation. Prerequisite: Upper class standing or permission of the instructor.

462/862M Airport Planning and Design (3)

Principles in planning, locating and designing of airports. Use of optimization and airline and aircraft characteristics. Environmental effects of airports including noise and air pollution. Prerequisite: For 462, upper class standing and permission of the instructor. For 862M, graduate standing and permission of the instructor.

463/863M Transportation Geometries (3)

Functional design of transportation systems with emphasis on highway, railway and airport design principles. Design of curves, sight distance, superelevation and runoff analysis. Design of highway interchanges, channelization and cross sections. Basics of airport, railroad, mass transit and pipeline design geometries. Prerequisite: For 463, upper class standing and permission of the instructor. For 863M, graduate standing and permission of the instructor.

464/864M Transportation Engineering (3)

Overview of traffic flow as influenced by the interaction of the driver, vehicle and roadway geometries. The role of traffic agents, queues and parking analysis. Traffic laws and ordinances, highway design and the role of traffic police. Design of highway intersections, traffic control devices and permit of the instructor.

465/865M Pavement Design and Evaluation (3)

The behavior of structural materials, and design techniques. Prerequisite: Graduate standing and permission of the instructor.

468/868M Portland Cement and Asphalt Concrete (3)

Principles of laboratory and field procedures used to develop Portland cement and asphalt concrete. Prerequisite: For 468, GE 326 or equivalent. For 868M, graduate standing.

469/869M Pavement Design and Evaluation (3)

Application of pavement testing principles to the design of surfacing materials. Surface runoff, infiltration, drainage basin characteristics, streamlining and runoff relationships. Emphasis is placed on utilizing these variables in decision-making process. Prerequisite: For 457, Math 197 and GE 331 or equivalent. For 869M, graduate standing and permission of the instructor.

470/870M Construction Management (3)

Estimating, bidding, scheduling, project planning, and contracting. Prerequisite: For 465, Math 197 and GE 331 or equivalent. For 870M, graduate standing and permission of the instructor.
**Counseling and Guidance**

479/879M Practical and Experiential Training in Counseling (1-2-6) An integrative course designed to acquaint students and practicing counselors with recent developments in the counseling profession. The course is typically a cooperative effort with the ACT, a local, non-profit agency, and the counseling training institute. This course is repeatable up to a maximum of six hours of credit each time the conditions of this sequence are met. Prereq: Permission of instructor.

480/880M Guidance Skills for Secondary Teachers (3) Course designed to help school counselors develop appropriate guidance and listening skills. No credit for guidance majors. Prereq: For 480, senior. For 880M, senior or graduate.

491/891M Group Evaluation Techniques (3) Course designed to help school counselors understand the process of measurement and evaluation in the instructional programs of elementary and secondary schools. Utilization of standardized tests and construction of classroom tests, use of the cumulative record in the basic social and occupational development of children. Projective techniques are included in the course. Prereq: For 491, senior.


498/898M Counseling Skills in Gerontology (3) A study of counseling skills and their application in gerontology. Prereq: Permission of instructor.

800V Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminar or workshops, according to the purpose. Prereq: Permission of instructor.

805U Theories and Studies in Occupational Educational Information (3-2) Advanced study of theories and research related to vocational development, and current research in the construction and use of occupational and educational information. Prereq: Coun 822V.

810U Advanced Studies in Counseling (3-2) An intensive course in the study of counseling theories, methods and research. Prereq: Coun 807V and 825V or 820V.

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

812U Counseling With Parents (3) A course emphasizing techniques used in working with families. Prereq: Coun 825V or 807V or permission of instructor.

815U Advanced Counseling Practicum (2-3) Continuation of practicum in counseling and supervision. Prereq: Coun 825V or 836V and permission of supervisor.

815V The Student and Student Personnel Work in Higher Education (3) An overview of the characteristics of college and university environments and the interaction of culture influences. The impact of student development work is considered as it affects personality growth, social development and career planning by college students. Prereq: FED 810V.

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

820U Research Project in Counseling and Guidance (2-3) Research project on a problem in the area of guidance and counseling. Prereq: 819U.

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

821V Organization and Administration of Guidance Services (3) A survey of organizational patterns and administrative practices in guidance and counseling programs. Prereq: Coun 890M or 895M.

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

823V Appraisal Techniques in Counseling and Guidance (3) A study of the teacher's role in the use and use of standardized and nonstandardized appraisal techniques in counseling and guidance. Prereq: Coun 880M and 881V.

824V Counseling Practicum (3) The process of counseling and the relationship of counseling to client counseling and to counselor development and counseling skills. Prereq: Coun 820V, 822V, and 825V.

825V Counseling Practicum (2-4) Counseling experience under the supervision of a counselor in elementary or secondary school. Prereq: Coun 824V and permission of department.

826V Education and Guidance Internship (3) Field experience in an approved guidance program under the supervision of a qualified counselor and a university. Prereq: Coun 824V and permission of department.

827V Group Techniques in Guidance (2-3) The consideration of techniques for group counseling and supervision. Prereq: Coun 880M and permission of supervisor.

829V Community Involvement for Urban Counselors (3) 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. Prereq: Coun 880M and permission of instructor.

831V Child Assessment in Elementary Counseling (3) Methods and techniques for identification of the elementary child as an individual. Prereq: Coun 822V and FED 810V.

832V Counseling Elementary School Children (3) Study of the methods and techniques in counseling elementary children. Prereq: Coun 825V and FED 810V.

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

834V Elementary Counseling Internship (3) Field experience in an elementary counseling program under the supervision of a counseling professor. Prereq: Coun 832V and permission of department.

835V Guidance and Counseling Services for Disadvantaged Youth (3) A study of the methods and techniques applicable to counseling and guidance services for secondary school. Prereq: Coun 822V or 820V.

845V College Student Personnel Internship (2) A survey of college counseling programs. Prereq: Coun 822V.

850 Parent Education (3) Course study of parents. Prereq: Permission of instructor.

851V Family Counseling and Guidance Department (3) Study of family counseling and guidance department. A study of basic principles underlying guidance and counseling. Prereq: Coun 850V or 852V. Encouraged to take Coun 880M, 881V, 882V, and 883V for secondary counselors, and Coun 850V, 882V, and 883V in elementary school.

859 Thesis (1-6) Independent research project written under the supervision of a thesis adviser. Prereq: Permission.

**Criminal Justice**

810V Criminal Justice Planning and Innovation (3) A review of the literature in social psychology, public administration and sociology which relate to the effectiveness of alternative strategies of promulgating changes in justice agencies, institutions, organizations and individuals. Emphasis placed upon historical, current practices and trends. Prereq: CJS 203 and permission of instructor.

820V Seminar in Criminal Justice (3) Justice in America from the perspective of the criminal justice system and the operation of the criminal justice system. Prereq: CJS 203 and permission of instructor.

824V Seminar in Community Services and Treatment (3) An analysis of various others. Prereq: CJS 203 and permission of instructor.

827V Seminar in Community Services and Treatment (3) An analysis of various others. Prereq: CJS 203 and permission of instructor.

831V Seminar in Administration of Justice (3) Justice in America from the perspective of the criminal justice system and the operation of the criminal justice system. Prereq: CJS 203 and permission of instructor.

832V Seminar in Community Services and Treatment (3) An analysis of various others. Prereq: CJS 203 and permission of instructor.

840V Seminar in Criminal Jurisprudence (3) An analysis of various others. Prereq: CJS 203 and permission of instructor.

840V Seminar in Community Services and Treatment (3) An analysis of various others. Prereq: CJS 203 and permission of instructor.

841V Theoretical Criminology (3) A study of the sociological background of criminal justice and an objective analysis of the historical influences and thought which molded its develop-
080V Seminar in The Processes of The Criminal Justice System (3) An examination of the interaction of the constituent elements of the American criminal justice system with emphasis on institutional and personnel interferences. Prereq: Permission of instructor.

080V Seminar in Delinquency Prevention, Control, and Legal Aspects (3) An inquiry into the social ramifications of the entire juvenile delinquency area, including performance, detention, incarceration and tolerance. Pre- and post-adjudicatory issues are dealt with as well as a realistic delinquency prevention strategies. Prereq: None.

0810V Seminar in Crime Prevention (3) An inquiry into the social, historical, and legal aspects of the crime problem on a broad spectrum of law enforcement and adjudicatory issues are dealt with as well as a realistic delinquency prevention strategies. Prereq: None.

0811V Special Problems in Criminal Justice (3) A course devoted to an exploration and analysis of contemporary social problems in the broad spectrum of law enforcement and corrections. Prereq: CJ graduate student and permission of instructor.

0812V Criminal Justice Research Theory and Methodology (3) Research theory and methodology as applied in social sciences as applicable to the criminal justice; preparation of research designs, preparation of research designs, preparation of research data, preparation of research data, preparation of research design and methodology. Prereq: CJ 335, graduate standing and permission of department chairperson and junior standing. For 844, DA 101 or permission of the instructor.

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

461-461M Scene Design (3) Principles of composition, perspective, structural modeling, sampling procedure, and development of individual research papers. Prereq: Permission of instructor.

467-467M Stage and TV Lighting (3) Characteristics and control of light and color and their application to the theatre. Prereq: CJ 206-207, DA 251; Art 110, 121.

471-471M History of The Theatre to 1642 (3) A history of the theatre as an institution and the literature of the theatre from its origins to 1642. Prereq: For 471, DA 101 and junior standing. For 871M, admission to graduate study.

472-472M History of The Theatre Since 1643 (3) A historical survey of the theatre, beginning with Shakespeare and continuing to the present. Prereq: For 472, DA 101 and junior standing. For 872M, admission to graduate study.

473-473M Seminar in Theatre History (3) A study of selected subjects in theatre history from ancient to modern times. The subject of the course will change each year, according to the interest of the instructor. Prereq: Permission of the instructor.

483-483M Seminar in Dramatic Literature (3) A seminar for graduate students and advanced undergraduate students which will be selected on subjects in dramatic literature in depth. Research papers and seminar reports will be required. The subject of the seminar will change each year, according to the interest of the instructor. Prereq: Permission of the instructor.

202V Dramatic Theory and Criticism (3) For advanced students of dramatic literature. Important dramatic theories and criticism from ancient to modern times. Prereq: Drama 220 or permission of instructor.

203V Seminar in Contemporary Theatre Analysis (3) A seminar in the contemporary aesthetic theories and movements in the contemporary theatre, including literary sources, background, and configuration of the aesthetic theories in this century. Prereq: Drama 415 and English 428, 429 and English 252 or permission.

205V Technical Theatre Problems (3) Research and dialogue in the aesthetic theories and movements in the contemporary theater, including literary sources, background, and configuration of the aesthetic theories in this century. Prereq: Drama 415 and English 428, 429 and English 252 or permission.

207V Seminar in Play Direction (3) An in-depth study of the principles of play direction. Prereq: Graduate standing and permission of instructor.

207M Costume History and Design (3) The history of human adornment from prehistoric to modern man. Theory and practice in historical costume design. Prereq: Drama 415 and English 428, 429 and English 252 or permission.

209V Thesis (1-3) Independent research project written under the supervision of an advisor.

Economics

085V Economic Education (1) Open to any undergraduate with no previous college work in economics. Teaching is K-12. Not open to majors in economics. A study and examination of the principles and how they can be related to the teacher's classroom presentation. This course is designed for the public school teacher (K-12) with sufficient background in economics to aid in the recognition of economic issues and the teaching of economic concepts and principles.

086V Business Conditions Analysis (3) A continuation of Econ 805V. Prereq: Econ 805V.

087V Economic Education Institute (3) A study and examination of the principles and how they can be related to the teacher's classroom presentation. This course is designed for the public school teacher (K-12) with sufficient background in economics to aid in the recognition of economic issues and the teaching of economic concepts and principles.

088V Business Conditions Analysis (3) A study and examination of the principles and how they can be related to the teacher's classroom presentation. This course is designed for the public school teacher (K-12) with sufficient background in economics to aid in the recognition of economic issues and the teaching of economic concepts and principles.

089V Research Methods in Economics and Business (3) A study of the current research techniques in business and economics. Prereq: Permission of instructor.

090V Econometrics (3) The study of the underlying assumptions, techniques, and applications of multiple regression analysis in economics. Prereq: Permission of instructor.

094V Seminar in Money and Banking (3) Original research and writing of papers on basic problems in the area of money and banking. Required of all economics majors. Prereq: Six hours in undergraduate monetary courses or permission of the instructor.

095V Seminar in International Economics (3) A study and examination of the principles and how they can be related to the teacher's classroom presentation. This course is designed for the public school teacher (K-12) with sufficient background in economics to aid in the recognition of economic issues and the teaching of economic concepts and principles.
880V Independent Study in Topics on Urbanism (1) Graduate student research on a topic during an intensive basis under faculty supervision in topics pertaining to urbanism. may be repeated up to a maximum of three hours. (Also listed under geography, political science and sociology.) Prereq: Undergraduate major in one of the social sciences plus 8 hours of graduate work in one of the social sciences.

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

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

892V-895V Independent Study (Each 1-3 Credit) Subject matter is selected in conjunction with and under the supervision of a faculty member. Prereq: Graduate student in economics and permission of instructor.

898V-899V Urban-Regional Research (Each 3) For master of science degree candidates in economics. (3) A study of a unit in urban economic problems, employing research techniques. Students do independent research concerning problems and submit completed reports to a departmental committee. Approval of the topic and the completed project is required. Prereq: Permission of instructor.

899 Thesis (1-6) An independent research project, written under the supervision of a graduate advisor in the department of economics. Approval of the topic and the completed project is required. Prereq: Permission of advisor.

540 Seminar in American Economic History to 1865 (See History) (F) (3) (W. R. Petrovskii)

541 Seminar in American Economic History Since 1865 (See History) (II) (3) (W. R. Petrovskii)

Educational Administration and Supervision

580U Seminar in Research Design (3) 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. Prereq: Admission to ed. S. Program.

580V Special Studies in Educational Administration and Supervision (3) A series of intensive courses especially designed for educational administrators and supervisors—scheduled as regular seminars or workshops—according to purpose.

801U Advanced Seminar in Educational Administration (3) Designed to acquaint students who have been admitted to candidacy for the specialist in educational administration major in school administration. Emphasis will be placed upon the theoretical principles of educational administration. Prereq: Admission to education specialist program.

805V School-Community Relations (3) This program is designed to acquaint the student with all aspects of school-community relations. Primary attention will be given to study and research of effective principles and practices in school-community relations. Prereq: Admission to graduate standing.

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

811U Field Project in Educational Administration (3) The study of a problem in the field of school administration, and employs the techniques of research and field. Admission: To education specialist program and approval of topic by the department chairman.

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

830V Seminar in Educational Administration (3) A study of educational problems and their relationship to and implications for educational administration. (Continued each fall in last nine hours of the Master of Science degree.)

835V Foundations of Educational Administration and Supervision (3) A study of the nature and functioning of educational organization and administration, including the relationship between the federal, state, and local responsibilities.

840V Practicum in Educational Administration and Supervision (3) A study of the nature, principles, and functions of modern educational administration and supervision as the interests and needs of the student requires. Prereq: Completion of 24 hours of graduate work in the preceding courses.

841V Practicum in Educational Administration and Supervision (Continued) (3) A study of the nature, principles, and functions of modern educational administration and supervision as the needs of the student requires. Prereq: EdAd 840V.

845V Administration and Supervision in Elementary Schools (3) The nature, principles, and functions of modern administrative and supervisory practices as they relate to the elementary school. Pre req: FED 801V.

846V Administration and Supervision in Secondary Schools (3) The nature, principles, and functions of modern administrative and supervisory practices as they relate to the secondary-school level. Prereq: FED 801V and EdAd 835V.

847V Administration and Supervision in Junior High Schools (3) This course is designed to acquaint the graduate student with the nature, principles, and functions of modern administrative and supervisory practices as they relate to the junior high school program.

855V School Business Management (3) An analysis of the functions of business management: budgetary procedures; financial accounting; taxation; management of funds; purchasing procedures and inventions; and administration of transportation.

856V School Finance (3) 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. Prereq: FED 810V and EdAd 835V.

890V Administration of Higher Education (3) A study of the major functions of higher education, with emphasis on the principles involved in organizing and directing the academic, program, student services, and staff personnel policies, financing the program, operating the buildings and grounds, and implementing educational programs. Prereq: Admission to graduate study.

954 School Law (3) This course is concerned with laws related to schools. Topics include legal implications of educational activities, pupil control, and transportation. Attention is focused on current law and recent court pronouncements. Prereq: FED 801V and EdAd 850V.

Educational Foundations

410/810M Mental Health (3) A study of the principles and practices conductive to good mental health in the classroom. Major emphasis will be given to providing the environment that will foster learning and development of the child. Secondary emphasis is placed upon communication techniques and the implications and authorities upon mental health. (F,S,SU) Prereq: For 410, junior.

481/881M Principles of Adult Education (3) An introduction to the study of adult education as a major development in contemporary society. The course surveys the major forms and problems of adult education and the fore­most agents providing the programs. Prereq: FED 801V.

482/882M Adult Group Leadership (3) A study of adult groups in modern society and the characteristics of effective leadership in all types of groups. (S,SU)


488/888M Preparation of Instructional Materials (3) A basic course in the production of appropriate materials for the classroom. Graphic, photographic and audio materials are considered. Consideration is given to inexpensive audiovisual materials, and the use of such instructional materials as slides, transparencies, still pictures, video presentations, and exhibits. Prereq: For 487, Educational Foundations.

489/899M Growth and Learning Problems of Disadvantaged (3) An intensive study designed to help the student develop a substantial understanding of the problems of the disadvantaged child and of the environment which affect it. Prereq: FED 487 or 488.

580V Special Studies in Educational Administration and Supervision (3) A series of intensive courses scheduled as regular seminars, or workshops, according to purpose.

801V Introduction to Research (3) To acquaint the beginning graduate student with the
 nature and significance of research; to enable the student to read, evaluate and apply research results and techniques; to give some understanding of the meaning and spirit of research; to give some experience in studying and preparing research reports.

802V History and Philosophy of Education (3) An intensive survey of the historical and philosophical foundations of education; special emphasis is placed on the economic, industrial, cultural, and social conditions that have shaped or are influencing American education.

803V Communication for Teachers of The Disadvantaged (3-6) An intensive interdisciplinary course dealing with the nature of the disadvantaged pupil, communication skills for teachers, and group interaction for the instructional teams working with low-income pupils.

804V Comparative Education (3) An intensive study of the educational systems of selected nations found in Europe, Asia, Latin America, and Africa; particular emphasis is placed on the present study of the society selected and its resulting educational adaptation and future educational directions.

805V Seminar in Education (3) Systematic study of the problems and developments which have caused distinctive philosophies to foreign education; individual student and group analysis is expected.

806V Education and Society (3) A study of the problems that modern society is confronted with and how education and educators are meeting society's need. Emphasis will be placed on the student-teacher relationship in a social context.

807V Alternative Strategies for Education (3) A study of the problems that modern society is confronted with and how education and educators are meeting society's needs. Alternative strategies will be developed for the traditional educational system.

808V Topics in Audio-Visual Education (3) A study of selected topics involving principles, problems, trends and materials of audio-visual education.

809V Urban School (3) An analysis of the societal and institutional processes and problems which have bearing upon the education of children in urban settings. A study of the urban school.

810V Research Project (1-3) Individual or group project analysis of specific problems in schools.

811V Study of Conflict and Controversy in Urban Education (3) A course designed for students who wish to keep abreast of contemporary issues which confront the educational institution and the teaching profession in an urban milieu. Topics are modified annually to reflect current educational issues. Scheduled once per month, September through May.

833V Anthropology and Urban Education (3) This course is designed to examine ways in which education, conceptualized as cultural transmission, contributes to and is influenced by continuities and changes in culture. An understanding and awareness of the culture concept is basic to the course. Interrelationships among sociological, social, and ideological forms in a subculture or society will be stressed. A limited anthropological field study is a requirement of the course. Prereq: EDUC 801v — Introduction to Research.

848V Practicum Internship (2-3) An integration of community and school experience with special reference to the disadvantaged pupil. Each semester focuses upon students from the junior high and elementary schools — language arts, social studies, evaluation procedures, classroom control and curriculum are the factors.

889 Thesis (1-6) Individual or group project written under the supervision of an advisor.

Elementary and Early Childhood Education

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

427/827M Current Trends in Early Childhood Education (3) This course is designed for individuals with an interest in the area of early childhood education and emphasizing the local, national, and international levels. Prereq: Admission to teacher education, FED 205, 206, EED 225, 226, 55, 56, 58, required grade point average.

428/828M Patterns of Parental and School Care (3) Exploration of contemporary patterns of home and school care of the young child from birth to eight years of age. (F)

429/829M Learning Materials for Early Childhood Education (3) Designed to promote the development of each student's capacities for use in selecting appropriate learning materials for children from three to eight years of age. (F)

800V Special Studies (3) A series of intensive courses especially for teachers in-service — scheduled as regular seminars or workshops, according to purpose.

816V Research Project (1-3) Individual or group project analysis of specific problems in schools.

819Y Diagnostic and Corrective Instruction (3) A study of methods of diagnosing children's difficulties in all subject areas of the educational process and corrective techniques for overcoming such problems. (F)

820V Improvement of Instruction in Elementary Science (3) This course is designed for graduate students teaching science at the elementary level. The student will be better informed about the recently developed procedures for elementary science, the methods, materials, philosophy, and emphasis in instruction, which are characteristic of these procedures. (F)

821V Improvement of Instruction in Elementary Mathematics (3) An examination of the philosophy, content, methods, and materials of modern mathematics programs for the elementary school. The needs and backgrounds of the students enrolled during the semester are given special attention. (F)

822V Improvement of Instruction in Social Studies (3) This course is intended for those preparing to teach social studies. Students will learn about the new social studies, philosophies, curricula, instructional strategies and research appropriate to this topic will be explored. (F)

840V Innovations and Trends in Elementary Education (3) Designed as an advanced study for the student who desires to know about the trends and developments within the various subject matter areas of the elementary school. Prereq: EDUC 801v.

843V Introduction to Curriculum Planning-Elementary (3) An introduction to curriculum planning methodology and current developments in the elementary curriculum with emphasis on the interface between the content and methods of curriculum development. Prereq: EDUC 801v.

844V Seminar in Elementary Education (3) A study of educational problems as they relate to a second-year field experience. (A) The impact of nine hours in the program for the master of science degree. Prereq: EDUC 801v.

850V Practicum in Elementary School Teacher-Elementary (3) Designed for experienced teachers who are or may be serving as cooperating teachers, and who desire to study student teaching, its aims, procedures, objectives, problems and conditions of teaching. Prereq: 3 years of teaching experience.

870V Practicum in Elementary and Early Childhood Education (3) This practicum is designed for selected graduate students who are preparing to enter the graduate program in elementary and early childhood education. The six-hour practicum experience will consist of one full-time session in an elementary school under the supervision of a graduate instructor in the department of elementary and early childhood education. (Half-time teaching will grant 1.5 hours of credit.) Prereq: Permission of advisor.

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

899 Thesis (1-5) Independent research project required of all students taking master of arts degree. See major advisor.

English

415/815M Contemporary French and German Novel (2) Comparative study of selected contemporary French and German novels in translation. Prereq: Permission of the instructor. (Same as French 415/815M and German 415/815M).

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


433/833M Sixteenth Century Literature (3) Poetry and prose of the English renais sance, from its continental origins to the end of the century. Prereq: 241/841M.

434/834M Chaucer (3) A literary and linguistic study of the works of Chaucer, with emphasis on the Canterbury Tales. Prereq: English 231 or 232.

440/840M The Age of Pope and Swift (3) An exploration of the eighteenth century, with emphasis on Pope and Swift. Prereq: English 231.

441/841M The Age of Johnson (3) Poetry, prose and drama of England during the Restoration and the first half of the eighteenth century, with emphasis on Pope and Swift. Prereq: English 231.

448/848M Seventeenth Century Literature (3) A study of English poetry and drama from 1660 to 1660 with emphasis on Milton. Prereq: English 231.

450/850M Shakespeare's Comedies (3) A study of the English drama, exclusive of Shakespeare, from the beginning to 1642. Prereq: 241/841M.

458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language. Includes language description, history, theory, variation, and acquisition, as well as semantics, psycholinguistics, and foreign language learnings. Prereq: Junior standing or permission.

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460/860M Shakespeare (3) A critical study of selected comedies, histories and tragedies by Shakespeare. Prereq: English 231.
468/868M History of English (3) A study of the structural development of the English language. Prereq: English 458 or permission.
472/872M Middle English Literature (3) A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500. Prereq: English 231 or permission.
478/878M Structure of English (3) A study of the phonology, morphology, and syntax of English as seen through the historical, structural, and transformational-generative theories of language description. Prereq: English 458 or permission.
482/882M Literature of The Victorian Period (3) English poetry and prose (excluding the novel) From 1830 to 1900. Prereq: English 229 or permission.
488/888M Linguistic Variation (3) The methods and results of linguistic geography, sociolinguistics, and variation studies with emphasis on American English in the community and the classroom. Prereq: English 458 or permission.
495/895M Contemporary Literature: Major Figures and Themes (3) A critical study of major literary figures and themes. Prereq: Junior standing or permission.
496/896M Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics such as sociolinguistics, generative semantics, dialectology, descriptive linguistics, teaching English as a foreign language, applied linguistics, historical linguistics, language pedagogy, and language division and SOCIAL change. Prereq: English 458, and permission of the instructor.
497/897M The American Novel (3) A critical and historical study of the work of twelve or more significant American novelists of the nineteenth and twentieth centuries. Prereq: English 245 or 246.
498/898M The American Drama (3) A study of the American drama and its theatrical background from the beginning to the present day, with concentration on the drama of the twentieth century. Prereq: English 112 or junior standing.
801V Seminar: Introduction to Literary Research (3) A survey of literary research, methodology, and ethics with a prime emphasis on methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing or permission of the chairperson of the department of English.
804V Seminar: Literary Criticism (3) A critical discussion of several of the major traditions of literary criticism. Prereq: Graduate standing or permission of the chairperson of the department of English.
806V Seminar: American Literature (3) Individual research and group discussion relating to a general topic in American literature. Prereq: Graduate standing or permission of the chairperson of the department of English.
808V Seminar in The English Renaissance (3) A seminar in a few major literary figures of the English Renaissance. Prereq: Graduate standing or permission of the chairperson of the department of English.
816V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English authors and works of the Restoration and the Augustan age (1660-1750). Prereq: Graduate standing.
817V Seminar: Milton to Fielding (3) A critical study of English poetry and fiction from John Milton to Henry Fielding. Prereq: Graduate standing or permission of the chairperson of the department of English.
819V Seminar: The French Novel (3) An intensive study of selected French authors and their works. Prereq: Graduate standing or permission of the chairperson of the department of English.
820V Seminar: Victorian Literature (3) An intensive study of one or more authors, genres, literary movements or literary problems not covered by regular period or genre course. Prereq: Graduate standing or permission of the instructor.
821V Seminar: John Milton (3) An intensive seminar in the major works of John Milton and his life and times, Prereq: English 229 or permission.
822V Seminar in Middle English Literature (3) A study of selected writings in Middle English. Prereq: Graduate standing and one course in Middle English language or literature.
825V Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate standing and one course in Middle English language or literature.
838V Independent Study (3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit. Prereq: Graduate standing or permission of the instructor.
839 Thesis (3-6) Independent research project written under the supervision of an adviser. Prereq: Graduate standing.
512V Seminar: Shakespeare (3) A critical analysis of ten tragedies or ten comedies of Shakespeare. Prereq: Graduate.
515V English Language History 1750-1830 (3) Studies in the transitions between English literature of the age of Johnson and that of the age of Wordsworth. Prereq: Graduate standing.
898V Thesis (3-6) Independent Study of selected major literary figures or major literary movements. Prereq: Graduate standing and permission of the instructor.
494/894M Modern French Novel (3) A detailed study of novels in French from the turn of the century to World War II. Prereq: French 315 and 316, or permission.
495/895M Twentieth Century Poetry (3) Examination of the development of poetry in the contemporary period. Prereq: French 315 and 316, or permission.
496/896M Introduction to Linguistics (3) An introduction to the concepts and methodology of the study of language, including language description, history, anthropological aspects, and acquisition as well as semantics, lexicography, and foreign language learning. Prereq: Junior standing or permission of the instructor.
496V/896V Pro-Seminar (1-3) A detailed study of narrower phases of French literature, language, or culture. Prereq: Permission of the instructor.
German
490/890M Independent Study (1-3) Guided independent study and research for majors or minors under the supervision of the instructor. Prereq: May be repeated with different topics but not in same semester for maximum of six semester hours total.
410/810M Introduction to Germanic Folklore (3) An intensive familiarization with the student with the broad spectrum of folklore in modern and ancient societies of the Indo-Germanic peoples. Prereq: Any 300 level course in literature or permission.
411/811M Seminar in French-Anglo-American Literature (3) A comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 417/817m).
419V Seminar in the Classics (3) A detailed study of the classics in French. Prereq: French 315 and 316, or permission.
422V Seminar in Seventeenth Century French Literature (3) A detailed study of the literature of the French Enlightenment. Prereq: French 315 or permission. (Same as German 418/818m).
423V Seminar in Eighteenth Century French Literature (3) A detailed study of the literature of the French Revolution. Prereq: French 315 or permission. (Same as German 419/819m).
481/881M Survey of literature of the twentieth century (3) A survey of the literature of the twentieth century. Prereq: French 315 or permission. (Same as French 415/815m and English 415/815m).
482/882M The Nineteenth Century French Literature (3) A detailed study of the literature of the nineteenth century. Prereq: French 315 or permission. (Same as French 417/817m).
483/883M Modern French Literature of The 19th Century (3) Survey of the literature of the nineteenth century, emphasizing Romanticism, Realism, Naturalism, Parnassianism, Symbolism. Prereq: French 316 or permission of the instructor. (Same as French 418/818m).
484/884M Modern French Literature of The 20th Century (3) Survey of literature of the twentieth century, emphasizing Modernism, Surrealism, Postmodernism. Prereq: French 316 or permission of the instructor. (Same as French 419/819m).
363 or permission of the instructor. For 832m, German

416/816M Spanish American Literature of The Twentieth Century (3) Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from modernism to the present. Prereq: Spanish 322 or permission of the instructor.

418/818M Spanish American Short Story (3) Representative works of Mexican, Spanish American, Spanish American, and American writers, along with their closest antecedents. Does not apply to foreign language requirement. Prereq: Permission of the instructor.

420/820M Spanish American Novel (3) Study of representative works of Mexican, Spanish American, Spanish American, and contemporary authors. Prereq: Spanish 321 or permission of the instructor.

459/859M German Literature of The Eighteenth Century (3) A study of representative authors of the eighteenth and nineteenth centuries. Prereq: German 303 or permission of the instructor.

450/850M German Literature of The Seventeenth Century (3) The principal dramatic, epic and lyric works of 17th century German literature. Prereq: German 303 or permission of the instructor.

460/860M German Literature of The Eighteenth Century (3) A study of representative authors of the eighteenth and nineteenth centuries. Prereq: German 303 or permission of the instructor.

455/855M Modern Drama of Spain (3) Ideologies, techniques, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language teaching. Prereq: Junior standing or permission; graduate standing in Spanish.

459/859M Bibliography and Methodology (1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.

460/860M Pro-Seminar (1-3) A detailed study of a recent phase of German literature, language or culture. Prereq: Permission of instructor.

Spanish

460/860M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

461/818M German Civilization From The 18th Century To The Present (3) Detailed analysis of German art, architecture, literature, music, and philosophy. The influence of the sciences and technology upon modern German civilization and culture. Prereq: For 832m, German 303 or permission of the instructor.

484/884M German Drama (3) A study of representative works of contemporary German, Spanish American, and American writers, along with their closest antecedents. Does not apply to foreign language requirement. Prereq: Permission of the instructor.

493/893M Advanced Mechanics of Materials (3) Stresses and strains, hooke's law and small deflections. Prereq: German 300 or permission of the instructor.

495/895M Fluid Mechanics (3) Ideal and real fluid flow, Eulerian and Lagrangian equations and potential theory; conformal transformations; turbulent flow, boundary layer theory. Prereq: Phys 313, Math 246.

496/896M Computer Mapping and Data Analysis (3) Computer techniques in mapping and analyzing data. Emphasis on simple, univariate, and multivariate methods, including analysis of variance. Prereq: 460/860, or permission of the instructor.
498/899M Interdisciplinary Seminar on Development and Planning. Prereq: Permission of instructor. For 499, graduate general seminar or the local chapter of GTU, national honorary geography fraternity. Must be under the supervision of a graduate advisor. May be repeated to a maximum of 6 hours of upper division course work. (Same as Econ 455, grad seminar) 453/853M Historical Geography of The United States. (3) A course dealing with the geography of the past. Emphasis is placed on the sequential occurrence of events in the United States or the geography of major divisions of the United States at selected times in the past. Prereq: For 450, junior standing and Arts and Sciences selects. For 853m, 825m or 826m and 117, or 107. Permission. 456V/856V History of Cartography. (3) The understanding and appreciation of the historical basis of human and cultural geography; in-terpretation of the cultural landscape. Prereq: Permission. 831V Geography of Agriculture (3) A systematic study of the characteristics of agriculture on a world-wide basis. Prereq: Permission and Geog. 313 or Econ 313. Prereq: Permission. 851V Advanced Geomorphology (3) A semi-nar in landform systems which emphasizes the study of landform patterns and controversies in the field of landform studies. The discussion will emphasize classic ideas as well as modern trends of structural, dynamic, and quantitative geomorphology. Some study of quantitative techniques is necessary. Several optional Saturday field trips. Prereq: Permission. 85V Physiology of North America (3) A study of the landforms regions of North America related to the whole study of geography by means of a systematic analysis of geographic patterns. Prereq: Permission and Geog. 412 or 116 or 117. 858V Soils (3) An examination of the historical and geographical concepts of the distribution and morphology of soil and the new concepts concerned with soil formation. Prereq: Permission. 860V Independent Research (1-3) (May be repeated to a maximum of 3 hours). Advanced study in geography to give the senior or graduate student knowledge and experience in urban and regional geography field problems. Prereq: Permission of instructor. 865V Land Use (3) The study of land forms and the nature of their patterns as a part of the whole geographic environment. Prereq: Permission. 865V Land Use (3) A course designed to help the student design a course program that is appropriate to the student’s education and career goals. This course will be placed upon field investigations in the urban area and will provide the student with a better understanding of the major considerations. Prereq: Geog. 412. 870V Cartographic Methods (3) The study of cartographic methods, effective map layout and exposure to the latest computer and graphic techniques, leading to the development of competence in the design and interpretation of maps. Prereq: Permission. 871V Population Seminar (3) The signifi-cance of differences from place to place in the number, kind, and qualities of human inhab­itants and changes through time. Prereq: Permission. (Same as Soc. 871v)
Health, Physical Education and Recreation

General HPER

800V Special Studies (1-3) A series of intensive courses — scheduled as regular seminars, or workshops — to coordinate. Prereq: Permission of department.

803V Research in Health, Physical Education, and Recreation (3) An introduction to the nature and significance of research in HPER. Attention will be given to reading, evaluating, conducting, and applying research results to classroom situations. Basic statistical techniques will be covered. Prereq: Graduate student in HPER.

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

822V Problems and Issues in Physical Education (3) 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.

825V Supervision of Physical Education (3) Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.

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

830V Analysis of Research and Literature in Human Movement (3) Survey of research and methodological matters associated with the research function in human movement. Prereq: For 493, junior standing and physical education major or permission of the instructor.

837V Improvement of Instruction in Physical Education (3) A study of the learning and performance of motor skills. Prereq: For 455, six hours of health of instruction of the instructor.

840V Motor Learning and Performance (3) A study of concepts and factors which influence the learning and performance of motor skills in various situations. Emphasis will be given to skills and fundamental movement patterns and an examination of techniques for improving the skills. Prereq: Junior standing or permission of the instructor.

855J Thesis (1-6) Independent research project written under the supervision of an advisor. Prereq: Permission.

Health Education

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

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

Professional Physical Education

453/853M Measurement and Evaluation of Physical Education (3) A study of measurement apparatus and testing procedures used in physical education programs. Prereq: Graduate standing or permission of the instructor.

456/856M Physiology of Exercise (3) A study of the major physiological systems of the human body and their response to exercise and the exercise program of programs of physical fitness training and conditioning. Prereq: For 493, junior standing and physical education major.

Recruitment Education

424/824M Organization and Administration of Recreation (3) Design to provide a broad background of information on community recreation work, special attention to organization, promotion, development and administration of recreation programs. Prereq: For 824M, at least 10 hours of upper division courses in recreation or permission of the instructor.

430/830M Recreation Programming (3) An advanced study of recreation programs in the field of recreation and planning through practical application of recreation techniques using survey, analysis, case study and compiling study results. Prereq: For 430, junior standing. Prereq: For 830M, undergraduate preparation major or minor/permission of the instructor.

481V Outdoor Recreation Resource Planning (3) An in-depth view of the process of resource planning, policy formulation, administration, and solicitation of policy. Specific attention will be focused on state-wide planning, recreation programs, cultural demand, financing, decision-making and public policy. Prereq: Graduate standing, at least 6 hours undergraduate preparation courses, or permission of the instructor.

581V Recreation Programs for The Mentally Ill and The Mentally Retarded (3) Designed to explore recreational programs for the mentally ill and the mentally retarded. Children, adolescents, and adults. In institutions, residential schools and training centers and other agency settings. Consideration will be given to developing an understanding of the relationship between recreational experiences and the ill or retarded person's potential for significant social independence. Prereq: Introduction to therapeutic recreation coursework and/or experience in work with the handicapped, or permission of the instructor.

History

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

315/815J The American Frontiers: 1600-1800 (3) A study of the settlement and development of the thirteen colonies and Spain and France, and the westward movement of the United States to the Mississippi Valley. Prereq: For 315, junior standing or permission of the instructor.

316/816J The American Frontier: 1840-1900 (3) The trans-Mississippi west from Spanish and French days to the disappearance of the frontier around 1900. Prereq: For 316, junior standing or permission of the instructor.

333/833J Diplomatic History of the United States 1898-1930 (3) A study of the foreign relations of the United States before 1900. Prereq: For 333, junior standing or permission of the instructor.

334/834J Diplomatic History of The United States Since 1930 (3) A study of the foreign relations of the United States since 1900. Prereq: For 334, junior standing or permission of the instructor.

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

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

353/853J Medieval Europe, 284-1095 (3) Establishment and development of the medie­val church and of feudal society from the Crusades and the Investiture struggle through the waning of the middle ages. Prereq: For 353, junior standing or permission of the instructor.

354/854J Medieval Europe, 1050-1342 (3) Reformation of Church and state and institutional developments of the era extending from the Crusades and the Investiture struggle through the waning of the middle ages. Prereq: For 354, junior standing or permission of the instructor.

355/855J The Age of The Renaissance (3) An introduction to the cultural, intellectual and spiritual changes and to the principal thinkers, writers, artists, and craftpersons of the period from 1300-1550. Prereq: For 355, junior standing or permission of the instructor.
to the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 427, junior standing or permission of the instructor.

428/828M Twentieth Century America Since 1920: (1) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 428, junior standing or permission of the instructor.

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

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

435/835M The Age of Enlightenment (3) A study of an era characterized by the development of Renaissance culture, declining authority of the medieval church, rationalism, changing economic and political ideas of the last century and a half. Emphasis on the development of European culture to the present. Prereq: For 452, junior standing or permission of the instructor.

436/836M The Age of Revolution (3) A study of an era characterized by the development of Renaissance culture, declining authority of the medieval church, rationalism, changing economic and political ideas of the last century and a half. Emphasis on the development of European culture to the present. Prereq: For 464, junior standing or permission of the instructor.

442/842M Intellectual History of Modern Europe From the Renaissance to The Early Twentieth Century (3) A study of the historically potent scientific, economic, and political ideas of the last century and a half. Emphasis on the development of European culture to the present. Prereq: For 452, junior standing or permission of the instructor.

443/843M English Constitutional History Since 1485 (3) A study of the legal and governmental institutions of the English-speaking people since 1485, including central and local government and the governments of the member states of the Commonwealth and the more important colonies. Prereq: For 464, junior standing or permission of the instructor.

447/847M Nineteenth Century Intellectual History of Russia (3) A pro-seminar examining the nineteenth-century revolutionary tradition, prototypes, ideology and impact upon Russian society. Prereq: For 474, junior standing or permission of the instructor.

807V Great European Historians (1) (3) A survey of the history of European historical writing from the Renaissance to the present. Prereq: For 427, junior standing or permission of the instructor.

809V Seminar in American History (1) Seminar will be offered at the 000 level when taught by a graduate faculty. Prereq: For 427, junior standing or permission of the instructor.

551 Seminar in American History (3) Seminar will be offered at the 000 level when taught by a graduate faculty. Prereq: For 427, junior standing or permission of the instructor.

126 Economies of the Environment (3) A study of the environmental consequences of economic development and growth and the impact of economic growth and development on the environment. Prereq: For 427, junior standing or permission of the instructor.

1485V Seminar in American Economic History to 1865 (Also Econ. 940) (W. R. Petrovski) 941 Seminar in American Economic History Since 1865 also Econ. 941 (W. R. Petrovski)
463/683 The Child and Family in The Community (3) Study of legislation and agencies pertaining to children and families. Field trips and supervised experiences through contacts with community agencies. Offered alternate years. Lect 2 lab 3. Prereq: Permission of instructor.

Textiles, Clothing and Design

416/816 Principles of Tailoring (3) Theory of tailoring techniques, the design factors and the sewing techniques required to custom tailor and mass produced tailored garments. Lect 2 lab 2. Prereq: 12 hours textiles, clothing, and design including TCD 102 (F).

422/822 Heritage of Fashion Study Tour (3-6 hrs max) A New York City (9 hr Europe) A study designed to broaden the scope of experiential and understanding of the heritage of fashion. Opportunity to observe historic museums, cultural heritage sites, and dress, and apparel exhibits in New York, Paris, Amsterdam, and Berlin. Rome and London as well as other contributing countries. Lect 3 Prereq: For 222. 21 hours textiles, clothing, and design and permission of chairman.

809 History of Textiles (3) A study of the history of textiles, the artistic social, and economic development of various cultures. Prereq: 9 hours textiles, clothing and design. 3 hours History or a course in history of western world civilization.

Industrial and Management Systems Engineering

Industrial Engineering

400/800 Theory of Metal Cutting (3) A study of advanced metal cutting, considering force, time, and stress requirements in metal processing. Prereq: IE 300; GE 302; GE 242.

405/805 Analysis of Engineering Management Systems (3) Selection of new manufacturing equipment, including analysis of capital and labor costs, techniques, and simulation languages. Prereq: IE 433.

484/884 Industrial Systems Analysis I (3) Simulation of logically based management systems and problems utilizing Monte Carlo simulation techniques and simulation languages. Prereq: IE 433.


599 Master's Thesis (1-10)

Mathematics and Computer Science

Computer Science

311/611 Information Systems Analysis (3) Decision-making processes, system life cycle, logical design of information systems. Prereq: CS 171 or 172.

312/612 System Design and Implementation (3) Principles and tools of system design and implementation of information systems. Hardware and software specification and evaluation. Prereq: CS 311 or permission.

322/622 Advanced Programming Techniques (3) Advanced problem solving, evolution of advanced programs using contemporary languages. Prereq: CS 230 or 250.


332/632 Data Structures (3) List processing, file processing, languages, implementation and storage of trees and graphs, searching and sorting. Prereq: CS 230 and 235.

345/845J File and Communications Systems (3) Functions of file systems and communications devices within an information system. Prereq: CS 332.


386/864J Modern Geometry (3) Axiomatic systems, finite geometries, the classical geometry of Euclid, hyperbolic and other non-euclidean geometries, projective geometry. Prereq: MATH 198 or equivalent mathematical maturity.

410/810J Introduction to Modern Algebra (3) An introduction to abstract algebra: group theory, rings and fields. Prereq: Math 191 and permission of Math 201 or permission of the instructor.


422/822M Mathematical Analysis I (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include the real number system, topology of the real line, limits, functions of one variable, continuity, differentiability, integration, differentiation, and applications. Prereq: Math 197 and 201 and at least one 300-level math course. Prereq: Math 432 or equivalent.

424/824M Mathematical Analysis II (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include: integration of functions of several variables; Continuity, partial differentials, multiple integrals and applications; power series; uniform convergence; improper integrals. Prereq: Math 423 or equivalent.

427/827 Complex Variables (3) Differentiation, integration and power series expansions of analytic functions. Conformal mappings, residues and contour calculus. Prereq: Math 432 or advanced calculus.

435/835J Introduction to The Foundations of Mathematics (3) Vector spaces, existence and uniqueness theorems, linear independence, dimension, and two point boundary problems. Prereq: Math 423 and 425, and an appropriate linear algebra course.


441/841M Introduction to The Foundations of Mathematics (3) Logic and mathematical methods, properties of axiomatic systems, set theory, cardinal and ordinal numbers, metamathematics, construction of the real numbers system, historical development of the founda-

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451/451M Theory of Numbers (3) Congruences, quadratic reciprocity, diophantine equations, continued fractions, and prime number distribution. Prereq: At least one math course numbered 200 or above.


460/460M Tensor Analysis (3) A review of vector analysis, study of lines and space tensors, applications to geometry and mechanics. Prereq: Mathematics.

801T Topics in Finite Mathematical Structures (3) Logic and sets, discrete and continuous probability theory, linear algebra, linear programming, stochastic processes. Prereq: Teacher certification or is working toward it, or permission of instructor.

802T Topics in Geometry and Topology (3) Selections from the following topics: Straight-line and conic constructions; geometries and transformations — complex numbers and stereographic projection, non-euclidean geometries, graph theory, topology of the plane; two dimensional manifolds, theory of immersion. Prereq: Has teacher certification or is working toward it, or permission of instructor.

803T Topics in The Algebraic Foundations of Mathematics (3) Set theory, number systems and their properties, number theory, Boolean algebra, elementary number theory applications. Prereq: Has teacher certification or is working toward it, or permission of instructor.


835V-836V Theory of Analytic Functions (Each 3) Semester I: Complex numbers, analytic and elementary functions, complex integrations. Semester II: Calculus of residues, contour integration, conformal mappings, and conformal mappings. Prereq: Math 423, 424 or 427, 850V needed for 836V.

845V Calculus of Variations (3) An introduction to the classical theory and problems of the calculus of variations. Prereq: Math 423, 424 or 427, 850V needed for 850V.

302L/302J Optics (1) The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics. Prereq: Math 196 and Physics 112 or 212.
on the operation of the political system. Prereq: For 412, junior standing.

417/817M Constitutional Law I (3) The first semester of a two-semester course in American constitutional law. It seeks to familiarize the student with the structure and the operation of the American constitutional system, the nature of the judicial system, and the role of the United States Supreme Court in the development of the institutions and powers of the American federal system. Prereq: For 417, Political Science 110 and junior standing.

418/818M Constitutional Law II: Civil Rights (3) This is the second of three separate courses in American constitutional law. It focuses on the role of the Supreme Court in interpreting those sections of the American Constitution that operate to preclude the ex- ercise of arbitrary and/or capricious powers against individuals subject to the control of the federal government. Prereq: For 418, Political Science 110 and junior standing.

419/819M Constitutional Law III: Civil Liberties (3) This is the third of three separate courses in American constitutional law. It focuses on the role of the Supreme Court in interpreting those sections of the American Constitution that operate to achieve government by consent in the governed through a system of freedom of expression. These civil liberties establish the concept of a democratic and open society, which constitute the core of the course. Prereq: For 419, Political Science 110 and junior standing.

420/820M International Politics of Asia (3) Analysis of contemporary relations among the Asian nations and their interactions with the great powers; emphasis on the forces and issues which interconnect with the international system of Asia. Prereq: For 420, junior standing.

421/821M Foreign Policy of The U.S.S.R. (3) An examination of the foreign policy of the U.S.S.R. with emphasis on developments since 1945. Internal factors and Soviet foreign policy, the processes of foreign policy making, and the relations among members of the community will also be considered. Prereq: For 421, junior standing.

422/822M International Political Theory (3) Analy- sis of the role of the great powers in the international political arena. Emphasis upon developing and refining a theoretical tradition of political theory of international politics through the study of significant political philosophers: The regional, institutional and ideological environment, power relations, political ideologies, and contemporary problems. Prereq: For 422, junior standing.

431/831M Political Theory I (3) Reviews and analyzes the leading political theories of western man from the Hebrews and Greeks to the 18th century. Prereq: For 431, junior standing.

432/832M Political Theory II (3) Continues the review of the leading political theories of western man in the 19th century. Prereq: For 432, junior standing.

433/833M Political Theory III (3) Continues the review and analysis of the leading political theories of western man from the French revolution to the present day. Prereq: For 433, junior standing.

434/834M Political Theory IV (3) An over- view and analysis of selected political thoughts and ideas that have been present in American thinking from the days of the Revolution to today, and the individuals who held them. Prereq: For 434, junior standing.

435/835M Democracy (3) A basic study of theory, practice and practitioners of political democracy, its roots, development, present applications, and problems and future. Prereq: For 435, junior standing.

436/836M Dictatorship (3) A basic study of theory, practice and practitioners of political dictatorship, its roots, development, 20th century application and validity, and threats to the present day. Prereq: For 436, junior standing.

437/837M Communism (3) A study of the Marxist message, its use as an impetus to political power. Its worldwide extension and potential for the world in the hands of the Soviet Union and others. Prereq: For 437, junior standing.

438/838M Government and Politics of Great Britain (3) A comprehensive study of the political and government institutions and informal customs and practices of the British political system. Prereq: For 438, junior standing.


440/840M Comparative Political Studies (3) An examination of the methods and concepts of comparative political analysis. Prereq: For 440, junior standing or permission of the instructor.

446/846M Governments and Politics of Non-Communist Asia (3) Political background, government and political systems of selected non-communist Asian states, and their political systems. Prereq: For 446, junior standing or permission of the instructor.

448/848M Governments and Politics of North America (3) Political background, government and political systems of the United States, Canada, and Mexico. Prereq: For 448, junior standing.

449/849M Governments and Politics of Continental Asia (3) Background information on government and political systems of mainland China and other Communist states. Prereq: For 449, junior standing.

450/850M Latin American Politics (3) The problems and political processes of the states of Latin America, including the structure and operations of their governmental and political systems. Prereq: For 450, junior standing.

452/852M Topics in Political Science (3) A project course emphasizing the application of contemporary political science topics based upon analysis of the literature of political science and/or primary source materials. Prereq: For 452, junior standing or permission of the instructor.

890V Seminar in The Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of data collection and analysis for political science and public administration research. This course cannot be included on a graduate advisor's list. (Also listed under public administration.)

894V Seminar in American Government and Politics (3) An analysis of selected aspects of the structure and function of the American political system with emphasis on individual research by the student. Prereq: Permission of graduate advisor.

899V Thesis (1-6) A research project, written under the supervision of a graduate Research in the Department of Political Science, in which the student conducts an independent, scholarly, and original contribution to the body of knowledge. The research topic and the completed project must be approved by the thesis advisor and the graduate committee. Prereq: Permission of graduate advisor.

Psychology

401/801M History of Psychology (3) A study of the origins, development, and nature of psychology and its rebirth to external events; emphasis on events since 1875. Prereq: For 401, junior standing.

405/805M Computer Concepts in Psychology and The Behavioral Sciences (3) Introduction to computer programming emphasizing the use of personal computers and software packages in the field of psychology. Prereq: Computer Science 110 or equivalent.

406/806M Environmental Psychology (3) A study of the role of physical environment in human behavior. Emphasis placed on effects of spatial arrangements and attitudes toward the environment on human behavior. Prereq: For 406, junior standing, or permission of the instructor. Prereq: For 806, Psychology 101 or permission of the instructor.

407/807M Cognitive Processes: Thinking and Imagination (3) An exploration of historical and contemporary theories of thought concerning higher cognitive processes included in the mental system of the human organism. Prereq: For 407, junior standing, or permission of the instructor. Prereq: Psychology 301 or 304.

415/815M Research Design (3) In-depth study and training in the design and implementation of research that adheres to ethical and professional standards. Prereq: For 415, junior standing, or permission of the instructor.

416/816M Nonparametric Statistics (3) A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems and social behavior. Prereq: Psychology 213 or equivalent.
425/425M The Limits of Consciousness (3) A survey of theories of consciousness, particularly after the period of consciousness, including such topics as vision, the perception of the world, and the experience of consciousness.

427/427M Animal Behavior (3) Behavior of diverse animals for the understanding of the relationships between behavior and environment. Prereq: Psychology 101 or permission of instructor.

431/431M Psychological and Educational Testing (3) The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity. Prereq: Psychology 101 or 351.

433/433M Individual Differences (3) A critical survey of psychological and statistical investigations of the influence of age, sex, family, and environment on behavior. Prereq: Psychology 101 or 351.

440/440M Abnormal Psychology (3) A course in the study of the abnormal behavior of individuals. Emphasis is given to the causes and treatment of abnormal behavior. Prereq: Psychology 101 or 351.

443/443M Psychosocial Psychology (3) An integrative course designed to acquaint the student with the Freudian and psychodynamic viewpoints. Research studies are emphasized.

447/447M Jungian Psychology (3) A course in the study of the psychological theories of Carl Jung, with emphasis on the relationship between psychology, literature, philosophy, and the unconscious. Prereq: Psychology 101 or 351.

455/455M Retardation (3) This course considers the problems of the mentally retarded. Prereq: Psychology 431/431M or Psychology 343 or 445/445M.

458/458M Geropsychology (3) This course will be on the psychology of aging. The focus will be on the period from middle years to later years. Prereq: Psychology 101 or 351.

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

462/462M Psychological Aspects of Industrial Training and Testing (3) An introduction to methods and techniques of training and testing. Prereq: Psychology 101 or permission of instructor.

463/463M Techniques of Programmed Instruction (3) An introduction to methods and techniques of programmed instruction. Prereq: Psychology 101 or permission of instructor.

469/469M Research Problems in Physiological Psychology (3) An individualized introduction to the techniques of experimental psychology used in the physiological laboratory. Prereq: Psychology 323 or permission of instructor.

500V The Profession of Psychology (0) A required non-credit course wherein psychology students are introduced to the profession of psychology. Prereq: For FUCKIN, Junior standing and permission of the instructor.

525/525M Psycholinguistics (3) A discussion of physiological and psychological aspects of language. Prereq: For FUCKIN, Junior standing and permission of the instructor.

534/534M Introduction to Counseling (3) A course designed to acquaint the beginning graduate student with the counseling process and methods. Prereq: Education 400 or department permission.

532V Tests and Measurements (3) A study of the theoretical and practical problems involved in the use of tests in different areas of psychology.

540V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication theory and their applications to problems of contemporary relevance. Prereq: Psychology 343 or equivalent.

551V Advanced Educational Psychology (3) A study of the principles of learning and teaching, and their applications to problems of contemporary relevance. Prereq: Psychology 343 or 351.

553V Individual Tests I (3) Administration, scoring, and interpretation of individual administered tests of special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree and Psychology 431/431M or Psychology 452/452M.

554V Individual Tests II (3) Administration, scoring, and interpretation of individual administered tests of special emphasis upon achievement testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree and Psychology 431/431M or Psychology 452/452M.

555V Introduction to Therapeutic Techniques With Children (3) The purpose of this course is to become familiar with play therapy, family therapy, behavioral therapy, and group therapy. Prereq: Psychology 101 or permission of instructor.

556V Learning in Children (3) A course dealing with learning in children and for comparison with the learning of adults. Prereq: Psychology 431/431M or 445/445M.

557V Behavior Modification (3) A course in the techniques, rationale, and research literature of the behavioral modification technique. Prereq: Written permission of the instructor.

569V Linguistic and Cognitive Development (3) Advanced, in-depth study of linguistic and cognitive development from infancy to adulthood. Prereq: Psychology 352 or equivalent or permission of instructor.

569V Social and Personality Development (3) A course covering the study of the development of personality and social behavior and the factors influencing both. Prereq: Psychology 101 or 351.

571V Psychological Research Methods (3) A course which provides the student with an in-depth coverage of the research literature on developmental, personality, and social psychology. Prereq: Psychology 101 or 351.

576V The Nebraska Symposium on Motivation (3) A study of the Nebraska symposium on motivation and its impact on the field of psychology.

820V Introduction to Counseling Theories (3) Study of contemporary theories of counseling as applied to the counseling process and methods. Prereq: Psychology 431/431M or Psychology 452/452M or department permission.
944 Proseminar: Social Psychology (Recker, Kessler, Lavoie) (3) Examination of theories and research in social psychology. Topics will include social identity, self-concept, situational influence, leadership and group effectiveness; the role of attitudes, attitude measurement, and attitude change; intergroup relations and social influence. New topics will be added as they become part of the research interest and knowledge of social psychologists. Prereq: Permission of the instructor.

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

956 Proseminar: Developmental Psychology (Hendrick, Dessler, Newton) (4-6) A systematic study of the human and infra-human development.

568 Personality Assessment (Pedrini, Strider, Wikoff) (3) A course dealing with the practical skills and activities related to personality testing, and intensive coverage of the experimental approach to personality assessment and evaluation of personality tests. Prereq: Permission of instructor.

536 Seminar in Applications of Non-Verbal Communication Theory (Hendrick, Meier) (3) A theoretical and empirical analysis of neuro- and other physiological processes correlated with and contributing to developmental processes in intra- and inter-human development. Prereq: Completion of the psychology prosemianr sequence or equivalent permission of instructor.


441/441M Public Personnel Management (3) A study of the personnel process in American governmental organizations. The processes and problems of recruiting, selecting, and placing personnel will be examined as well as problems in personnel leadership, neutrality, accountability and performance in public administration. Prereq: P.A. 317, junior standing. For 441M, Permission of instructor.

443/434M Municipal Administration (3) The development and administrative practices of American cities covering such areas as governmental organization, public finance, land use, public safety, health, utilities, and planning. Prereq: For 443, Permission of instructor. For 443M, Permission of instructor. For 434M, Pol Sci 301, Pol Sci 307.

450V Seminar in the Methods of Political Research (Pedrini) (3) A critical investigation of the methods of data collection and analysis for political science and public administration research. (Also offered under the title of Political Science 450V.) Prereq: Permission of instructor. (Also listed under political science. ) Prereq: Permission of the instructor. For 450V, Permission of instructor. For 450M, Permission of the instructor.

492V Seminar in Public Policy Analysis (3) A study of the economic, political and social determinants of public policy in terms of policy formulation and decision making and of measuring and evaluating policy impact. The course includes both study of general policy processes and, to a lesser extent, particular policy topics. Prereq: Permission of instructor.

494V Seminar in Public Organization and Management (3) A study of the theory and practice of organizational development in public agencies. Development of interpersonal skills in organization problems is stressed. Prereq: Permission of instructor.

495V Seminar in Advanced Management Analysis (3) A study of the approaches and techniques of organizational changes and the relationships of these approaches to the design and functioning of public agencies. Prereq: Permission of graduate advisor.

810V Urban Seminar in Metropolitan Planning and Development (3) An overview of the present status of planning approaches. The emphasis will be on special emphasis on evaluation in planning departments, comprehensive plans, and
problems of annihilation. Prereq: Geo. 412 or recommendation from pol sci, soc, or econ departments.

819V Readings in Public Administration (1-3) Specially planned readings in public administration for the graduate student who encounters scheduling problems in the completion of a master's degree program, or who has special preparatory needs and who is judged by the department to be capable of pursing graduate studies in an independent course of study.

894V Research in Public Administration (1-3) The course is intended for advanced graduate students in public administration. It is especially suited for those in- and out-of-state students who have had their internships waived and who might profit more by in-depth research on a problem of particular interest in addition to the classroom work. Prereq: Graduate standing.

Secondary/Post-Secondary Education

480/480M Principles of Vocational Education (3) A study of the basic philosophy underlying vocational education and the principles and practices in the various fields. F,S,Su

482/482M Literature for The Adolescent (3) This course is designed to assist library media specialists, English teachers, teachers of the humanities, supervisors, and other classroom teachers to gain information about adolescents, their reading and viewing habits and interests. Factors which affect the nature of guidance in reading and types of literature, regardless of format, will be examined. Prereq: Graduate standing. F 482, Prereq: 482M, Educational Foundations 205 or Educational Foundations 206 and Psychology 227 and Psychology 351 and graduate standing.

485/485M Coordination Techniques in Vocational Education (3) Reviews responsibilities and techniques of coordination for the vocational teacher, coordinator and or vocational coordinator, with special emphasis upon local administration of the part-time cooperative program and analysis of the laws and regulations governing this program. (S,Su)

490/490M Special Studies: Post-Secondary/Higher Education (3) This course surveys the historical development, current status and future direction of the post-secondary/higher education in the United States. Its major focus is on current and the future issues confronting postsecondary/higher education today. (Su)

800V Special Studies (1-3) A series of intensive courses for teachers in secondary/college level education, scheduled as regular seminars, or workshops, according to the needs of the individual teachers.

816V Research Project (1-3) Individual or group study and analysis of specific problems in education. Problems encountered in the class may include scheduling, surveys, school finances, transportation, school buildings, school construction, maintenance and operation, curriculum and pupil personnel.

815V Practicum Teaching-Community and Junior College (3) The practicum experience is intended for graduate students who desire to become instructors at the community or junior college level. The student will be placed in a practical situation in a recognized teaching field under the supervision of a certified or community college instructor. The student will be an instructor and a faculty supervisor from the College of Education. Prepr: Graduate standing and permission of faculty advisor.

820V Seminar for Cooperating Teachers (3) A seminar for cooperating and prospective cooperating teachers. Discussion of current trends, research and evaluation of student teachers and student aides in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.

835V Seminar in Secondary Education (3) An intensive study of problems of secondary education. Critical analysis of current research and related literature; group individual work on problems of group interest and relevance to secondary education.

827V International Curriculum Practices (3) An analysis of curriculum practices and procedures that are currently utilized in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course will include correspondence with foreign students and educational institutions.

830V Emerging School Curriculum (3) Designed to provide the student with understanding of the nature and trends in secondary school curriculum development with the principles and practices utilized in curriculum development. Strong emphasis is placed on curriculum construction.

833V Analysis of Teacher Behavior (3) Emphasis is placed upon current observational systems for analysis of the classroom teacher with special reference to classroom settings. Specific topics include in-depth instruction to interaction analysis, micro-teaching, non-verbal behavior and simulation. Student proficiency in these observational systems using video-tape equipment is stressed.

835V Improvement of Instruction of Secondary School Speech-Langage (3) Exploration of the implications of recent research in speech-language and auditory-vestibular area. Improvements in the teaching of English.

841V Improvement of Instruction of Secondary School Social Studies (3) Designed especially for those teachers who are interested in the improvement of instruction in the teaching of history and social science in the secondary school classroom.

844V Improvement of Instruction of Secondary School Social Science (3) Designed especially for those teachers who are interested in the improvement of instruction in the teaching of history and social science in the secondary school classroom.

845V Improvement of Instruction of Secondary School Language (3) Exploration of the implications of recent research in the teaching of English and related literatures. Group and individual work on problems assigned to each student. (S,Su)

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

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

849V Seminar in Social Studies Curriculum Construction (3) This course is designed for social studies supervisors, department chairpersons, English teachers and teachers who are interested in learning to design and construct curriculum materials. Emphasis is placed on curriculum development.

850V Improvement of Instruction of Secondary School Mathematics (3) This course is designed for those who wish to extend their knowledge of the secondary school mathematics. Emphasis is placed on feed-back skill in employing instructional techniques for teaching mathematics. Emphasis is placed on feedback skill in employing instructional techniques for teaching mathematics. Emphasis is placed on feedback skill in employing instructional techniques for teaching mathematics. Emphasis is placed on feedback skill in employing instructional techniques for teaching mathematics.

852V Foundations in Business Education (3) Designed to develop a deeper and broader understanding of business education, to identify and define business education and to examine the role of business education in the total education pattern of our country in today's day.

853V Seminar in Mathematics Education (3) A graduate seminar in 10-12 mathematics education. Emphasis will be placed on recent curriculum developments, curriculum planning and evaluation, research, mathematics, and the contributions of recent advances in mathematics education. Prereq: Graduate standing and permission of instructor.

855V Improvement of Instruction of Secondary School Science (3) Designed especially for those teachers in education who wish to become better informed about the recently developed programs for secondary science, the methods, materials, philosophy, and emphasis which are characterized by these programs.

860V Improvement of Instruction of Science Education (3) This course is designed to provide advanced graduate students with an in-depth knowledge of the content, methods, materials, philosophy, and emphasis which are characterized by work project. Prereq: Graduate standing and permission of instructor.

865V Science Education Seminar (3) A course that is designed to familiarize K-12 science education emphasizing research, newly developed science curricula, curricular development and implementation of one or more localized science education issues.

875V Improvement of Instruction in Secondary School Business Education (3) This course is designed for those who wish to extend their knowledge of the purpose, philosophy, current practices and trends in business education.

876V Problems of Vocational Business Education (3) Designed to develop a deeper and broader understanding of the purposes, philosophy, current practices and trends in business education.

877V Vocational Curriculum Construction (3) This course is designed to provide advanced graduate students with an in-depth knowledge of the purpose, philosophy, current practices and trends in business education.

878V Problems of Vocational Business Education (3) Designed to develop a deeper and broader understanding of the purpose, philosophy, current practices and trends in business education.

880V Social Work Environment

881V Human Behavior and The Social Environment

420-449 Social Work Practicum I (3) Staff field practice in field instruction. Supervised field practice with individuals, groups, or agencies in selected social welfare agencies.

899 Practicum

441/441 Social Work Practicum I (3) Staff field practice in field instruction. Supervised field practice with individuals, groups, or agencies in selected social welfare agencies.
Prep. For: 441, SW 420, 421, 451, 452, and permission of the instructor. Prep. SW 883 or permission of the instructor.

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

997A Social Work Practicum III (3-4) Staff and instructors in field instruction (Required) Supervised field practice with individuals, groups, or communities in selected social welfare agencies. Prepr. SW 842 or permission.

997B Social Work Practicum IV (3-4) Staff and assistants in field instruction (Required) Supervised field practice with individuals, groups, or communities in selected social welfare agencies. Prepr. SW 997 or permission.

997C Social Work Practicum V (3-4) Staff and assistant in field instruction (Required) Supervised field practice with individuals, groups, or communities in selected social welfare agencies. Prepr. SW 997b or permission.

Social Welfare Policy and Services 451/851 Social Welfare Policy and Services I (4) Track the development of major social welfare programs and policies in the U.S. Principles and concepts of policy analysis are developed through an examination of the effect and implementation of selected social welfare policies and program, 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. Credit for one specific course, offered at the 451 or 851 level, is given.


Social Welfare Research 493 Research Methods in Social Work (2) (Required) Collection, analysis, and presentation of social welfare data, including only the logically and methodically related statistical devices; general types and methods of research related to social welfare; data handling techniques; and data related to social welfare research in relation to administration; sources of support for social research, and the role of the researcher. Permission of director and instructor.

899 Master's Thesis (6-10) (Elective) Supervised individual research project for second year students taking the thesis alternative to meet research requirement for the degree of Master of Social Work. Prepr. SW 883 or equivalent.

985-986 Research Other Than Thesis (2 each) (Required) Individual research projects for second year students taking the research alternative to meet the research requirement for the degree of Master of Social Work. Attendance at regular seminars may be required. Prepr. SW 883 or permission.

897 Seminar in Research for Social Work (2-3) (Elective) Emphasis is placed on utilization of research techniques in practice. Social and behavioral science research and data evaluation; major concepts, principles, theories, and research for assessing effectiveness of programs and policies. Prepr. SW 420 or permission.

899 Seminar in Research, Practice (2) (Elective) This course builds on 420 and addresses the continuing development of research in the field of social work. Experimental use in practice will be explored. Experimental use in practice will be explored. Prepr. Graduate standing or permission.

Social Work Practice 430/830 Social Work Practice I (4) (Required) Administration as a process involving the total agency. Governmental and voluntary agencies. Problems encountered in the planning, development, and practice of programs. Prepr. SW 101, Graduate standing or permission.

431/831 Social Work Practice II (4) (Required) Administration as a process involving the total agency. Governmental and voluntary agencies. Problems encountered in the planning, development, and practice of programs. Prepr. SW 451, SW 420, 421, 451, 452. For: 431, SW 841 or permission of the instructor.

431/831 Social Work Practice III (4) (Required) Administration as a process involving the total agency. Governmental and voluntary agencies. Problems encountered in the planning, development, and practice of programs. Prepr. SW 451, SW 420, 421, 451, 452. For: 431, SW 841 or permission of the instructor.

439 Micro Intervention I (Required for Micro Concentration) (Optional for Mezzo Concentration) (3-4) Social work practice with micro-systems — individual and family. Prepr. For: 439, SW 830 or permission of the instructor.

441 Micro Intervention II (Required for Micro Concentration) (Optional for Mezzo Concentration) (3-4) Social work practice with micro-systems — individual and family. Prepr. For: 441, SW 830 or permission of the instructor.

499 Micro Intervention IV (Required for Micro Concentration) (Optional for Mezzo Concentration) (3-4) Social work practice with micro-systems — individual and family. Prepr. For: 499, SW 830 or permission of the instructor.

Sociology 461/861 Cultural Anthropology (3) Family, art, war, marriage, prestige, religion are approached as parts of an integrated whole, a pattern of life. Prepr. Social Anthropology 101 or 403, and 301. For: 461, permission of the instructor. For: 861, permission of the instructor.

491 Social Work Practice in Child Welfare (3-4) (Elective) Emphasis on the development of the social worker in child welfare with special emphasis on the range of foster care services from family foster home through institutional care. Prepr. SW 883 or permission.

924 Social Work Practice in Mental Health (2-3) (Elective) Consideration of the practice of social work in mental health with special emphasis on currents and related principles and practice. Prepr. SW 842 or permission.

926 Social Work Practice in Aging (2) (Elective) This course builds on 420 and addresses the continuing development of research in the field of social work. Experimental use in practice will be explored. Experimental use in practice will be explored. Prepr. Graduate standing or permission.

950 Administration in Social Work (2-3) (Elective) Basic teaching and learning theories patterns, and approaches. The sociologist in field social work including intensive study of principles, skills, and techniques of the supervisory process, as well as the differential use of the supervisory role with teams, experienced staff or volunteers. Prepr. Second year graduate standing or permission.

974 Supervision in Social Work (2-3) (Elective) Basic teaching and learning theories patterns, and approaches. The sociologist in field social work including intensive study of principles, skills, and techniques of the supervisory process, as well as the differential use of the supervisory role with teams, experienced staff or volunteers. Prepr. Second year graduate standing or permission.

981 Community Planning and Organization (2) (Required) Emphasis on social process in the community; existing organizations to meet social needs, especially those related to the community in relationship to the worker as an agent of change. Prepr. Social Work 720 or permission.

995 Advanced Seminar in Social Work Practice (2-3) (Required) Consideration of trends, problems, and issues in current social work practice. Exploration of innovations in the delivery of services and of changing concepts of social work function. Prepr. SW 914 or permission.

Special Studies 963 Special Studies in Social Welfare (2-3) (Elective) Special studies in specific areas of social work curriculum. Prepr. Graduate standing and permission.

Sociology 421/821M Cultural Anthropology (3) Family, art, war, marriage, prestige, religion are approached as parts of an integrated whole, a pattern of life. Prepr. Social Anthropology 101 or 403, and 301. For: 421, permission of the instructor. For: 821M, permission of the instructor.

464/864M Commercial Behavior I (3) (Elective) Emphasis on social psychology as a system of thought, and its application to the study of advertising, salesmanship, and marketing. Prepr. For: 464, 421, 851, 420, and 451 or equivalent. For: 864M, permission of the instructor.

481 Social Work Practice in Mental Health (2-3) (Elective) Emphasis on the development of the social worker in mental health with special emphasis on currents and related principles and practice. Prepr. SW 842 or permission.

482/852M Psycholinguistics (3) A discussion of the literature concerned with such psychologies as those that underlie language, communication, and language learning. Meaning, and speech sounds. Prepr. Senior or graduate standing and permission of the instructor. Recommended: Anthrop 105. (Same as Psychology 452 and Speech 452)

492/892M Seminar in Anthropological Problems (3) A course designed to allow students to pursue individual interests in various aspects of anthropology. Work with the instructor in projects designed to increase the student's knowledge of individual areas. Credit for: For 492, 9 hours of previous anthropology courses completed with a grade of C or better. For: 892M, permission of the instructor.

101/811 Micro Intervention IV (3) The social processes by which the person's behavior is adapted to the group. External relations, role self-control, analysis of measurement of behavior in the context of socially defined fields. Prepr. For: 421, Social Anthropology, including Sociology 101 or 403, and 301. For: 811M, permission of the instructor. For 420, 9 hours of sociological courses completed with a grade of C or better. For: 821M, permission of the instructor.

493/893M Advanced General Sociology (3) A survey of sociological theory from the earliest days of social interaction systems groups, institutions, social organization, and change. Consideration also given to sociological technique, major sociologists, and classes of data. Prepr. Junior or senior standing or permission of anyone who has recent credit in Sociology 101. (Does not carry graduate credit in Sociology.)

410/810M The Community (3) A basic course in community sociology. Concepts of community and the techniques of empirical research are applied to the study of communities in the United States and elsewhere. The comparative sociological method is employed. Use of fieldwork. Prepr. For: 410, 421, 420, 851, 420, and 451 or equivalent. For: 810M, permission of the instructor.

411/811M Applied Social Gerontology (3) An introduction to applied social gerontology with a special emphasis on the effects of aging on social institutions and an examination of the practice-oriented implications of this practice. Prepr. 411 is the course in which...
have been developed in conjunction with the Gerontology center of CAP2S. Preereg: For 411, 9 hours of sociology. For 810m, permission of the instructor.

412/812M Urban Geography (3) A geography of the city from the viewpoint of history, site, and site-situation, external relations, internal relations, and the comparative study of cities. Preereg: For 412m, junior standing. For 812m, permission of the instructor. (Same as Geography 412 and Economics 412.)

413/813M Sociology of Deviant Behavior (3) A theoretical analysis of the relation of deviant group and subculture to community standards of conventional behavior as expressed in laws and norms. Preereg: For 413, 9 hours of sociology, including Sociology 101 or 403. For 813m, permission of the instructor. (Same as Criminal Justice 413/813.)

414/814M Urban Sociology (3) 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. Preereg: For 414, 9 hours of sociology, including Sociology 101 or 403. For 814m, permission of the instructor. (Same as Sociology 414/814.)

415/815M American Family Problems (3) (1) A theoretical treatment of the family as a social institution, identifying the essential functions it provides for its members and the society. (2) An analysis of failures of function and adjustment problems in a variety of American families: Parenthood, problems, problems of sexual adjustment, role conflict, multiproblem families, determinants of failure. Preereg: For 415m, 12 hours of sociology, including 101 or 403 or permission of the instructor.

416/816M The Craft of Sociology (3) Junior and senior sociology major integrating prior learning, and current sociological perspectives, theories, methods, theory-building strategies, practical applications, moral implications, values 2000p on professional goals, and technical writing skills. Preereg: Only sociology major or permission of the instructor.

453/853M Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural and subcultural misperceptions, with the purpose of leading to awareness those factors which disturb communication in cross-cultural interactions. Preereg: For 853m, junior standing and permission of the instructor. For 853m, permission of the instructor. (Same as Speech 453/853.)

462/862M Sociology of Formal Organizations (3-6) Sociological analysis of the social structure in formal organizations. Processes involved in the integration and disintegration of formal social organization. An introduction to organizational analysis in medical, military, governmental, educational, and business settings. Implications of large scale bureaucratization for social functioning. Preereg: For 462, 9 hours of sociology. Preereg: For 862m, permission of the instructor. (Same as Sociology 462/862.)

471/871M Development of Sociological Theory (3) An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although background to these in their ancient and medieval antecedents where applicable. Preereg: For 471m, junior standing and 12 hours of sociology. For 871m, permission of the instructor.

472/872M Contemporary Sociological Theory (3) A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and theory with shorter descriptions of other sociological positions indicating similarities and differences. Principles of theory construction and a review of major sociological writers. Preereg: For 472, senior standing and 12 hours of sociology. For 872m, permission of the instructor.

475/875M Social Change (3) A discussion of the theories and the basic models of social change illustrated by use of examples from contemporary and historical data. Emphasis is placed upon understanding causes and effects of social processes current in American society and the response of the individual to that change. Preereg: For 475, Sociology 101 or 403, and 6 hours of sociology or history. For 875m, permission of the instructor.

485/885M Sociology of Religion (3) Analysis of religious behaviors and belief systems and their interaction with social-psychological perspective, and utilizing both theoretical and empirical methods. The course is intended as an introductory approach to the sociology of religion, and is recommended as an ideal two-step sequence, undergraduate and graduate. Preereg: For 485, Sociology 101 or 403, or permission of the instructor. (Same as Religion 485, permission of the instructor.)

495/895M Independent Study (1-3) Guided reading in special topics under the supervision of a faculty member. Preereg: For 495, senior standing and major. For 895m, permission of the instructor. (Same as Psychology 495, permission of the instructor.)

810V Seminar in Applications of Sociology (3-6) Sociologically oriented and method applied to a problem of relevance to general social issues. Preereg: Preereg: Graduate standing and permission of the instructor.

811V Social Problems of the Disadvantaged (3) A survey of the social problems existing in a variety of disadvantaged communities. The effects upon individuals of such settings. Subsequent courses on special standing and permission of instructor.

812V Seminar in Social Gerontology (3) An interdisciplinary seminar which covers the impact of aging upon individuals and society, including the subsequent reactions of individuals and society to aging, with particular emphasis given to changes during the later decades. Preereg: For 812m, junior standing and 12 hours of sociology. Preereg: Graduate standing and permission of the instructor.

850V Seminar in Research Methods (3-6) A comparative treatment of the various research techniques used in the study of the social sciences. Special emphasis is placed upon the role of the sociologist as an independent researcher. Preereg: Graduate standing and permission of the instructor.

851V Seminar in The Sociology of Religion (3-6) An interdisciplinary seminar which covers the religious experiences of the individual. Students will participate in the background work, question formulation, selection, gathering of research materials, research analysis, and presentation. Preereg: Graduate standing and permission of the instructor.

855V Seminar in The Sociology of Religion (3-6) A seminar for individuals interested in the sociology of religion as a social and cultural phenomenon. The study theme will vary with the special interests of the instructor. Preereg: Preereg: Graduate standing and permission of the instructor.

895/896V Seminar in Sociological Analysis (Each) A course in research and criticism with emphasis on the theme of a sociological analysis. Prereg: Graduate work in sociology or permission of the instructor. (Same as Sociology 855/856V and Economics 855B-856V.)

895V-896V Practicum in Applied Sociology (Each) A practical work experience under the supervision which provides opportunity for applying principles from the students' academic major. Preereg: Graduate sociology major for the M.S. Degree.

898 Thesis (1-6) Special Permission in a Social Science Laboratory (J. Brillhart) (3) Research and theory building in the processes of small group interaction and decision-making with an emphasis on teaching procedures; approaches to teaching a discussion course. Preereg: For 898, 9 hours of sociology, permission of the instructor, or a special type of permission of the instructor. (Same as Sociology 940V & Psychology 940V.)

Special Education 412/812M Reading Diagnosis and Remediation for the Elementary Classroom Teacher (M.S. only) (6) This course is designed for future elementary classroom teachers who wish to develop a better understanding of reading problems and their instructional remediation program. Preereg: For 412, teacher education program. For 812m, 330 or 332 of the instructor. (F-S)

420/820M Education and Guidance of the Deaf (2) Trends in the evaluation, diagnosis, and placement of the hearing impaired, survey of diagnostic and intervention services, curricular methods, and school and post-school problems, practices, and attitudes. (F)

421/821M Teaching of Speech in the Deaf I (2) Methods and techniques for teaching the deaf child; special emphasis on factual, visual and auditory techniques.
422/323M Teaching of Speech to the Deaf II
(2) Continuation of SpEd 421; focus on various types of speech learning problems found in a population of deaf children. Prereq: For 425, Special Education 421. (S)

432/323M Language Development of Hearing Impaired Children
(3) Development of functional language for the hearing impaired child; methods and materials for developing English language skills; beginning reading skills as related to language acquisition. Prereq: For 425, junior standing. Teacher education and 2.5 GPA. (F)

433/324M Teaching of Language to the Deaf II
(3) Continuation of SpEd 423 with further consideration of criteria for selection and utilization of teaching materials; special emphasis on language principles for the older deaf pupil. Prereq: For 424, Special Education 423. S

433/323M Speech Reading and Auditory Training
(3) History of development of speech (Up) Reading; methods and practices in teaching speech reading for various ages and degrees of hearing impairment. Prereq: For 433, junior standing. Teacher education and 2.5 GPA. (S)

435/325M Teaching School Subjects to the Hearing Impaired
(2) Consideration of problems in deaf education. Approaches to school subjects considered in detail. Prereq: For 435, Special Education 434. (F)

438/328M Speech Science I: Auditory and Speech Mechanism
(3) Basic structure and operations of the organs involved in hearing and speech. Prereq: For 438, junior standing. 2.5 GPA. (S)

440/40M Learning Disabilities
(3) Study of specific learning disabilities among children; research on learning disability, models of learning, definition; causal factors of learning disabilities; evaluation and identification for disabilities; educational needs and treatment for the learning disabled; reintegration methods and procedures for boys and girls. Prereq: For 440, junior standing. Teacher education and 2.5 GPA. (F, S, Su)

443/323M Speech Pathology I: Child Language and Speech Articulation
(3) Types and causes of voice and articulation disorders; classroom problems and strategies; special emphasis on rehabilitation procedures and methods associated with stuttering, aphasia and delayed language development; special emphasis on research and treatment procedures and methods associated with stuttering, aphasia and delayed language development. Prereq: For 443, junior standing. Teacher education and 2.5 GPA. (F, S, Su)

444/324M Speech Pathology II: Rhythm and Symbolization Disorders
(3) Rhythm and language symbolization disorders; classroom demonstrations; special emphasis on rhythm and language symbolization disorders; classroom demonstrations; special emphasis on research and treatment procedures and methods associated with stuttering, aphasia and delayed language development. Prereq: For 444, junior standing. Teacher education and 2.5 GPA. (F, S, Su)

445/325M Speech Science II: Experimental and Applied Phonetics
(3) Analysis of phonetics. Exercises in American English dialects; practice in transcribing and analyzing the standard and defective speech use of the sound spectrograph, spirograph and other equipment. Prereq: For 445, junior standing. 2.5 GPA. (F, S)

450/380M Communication Disorders in The Elementary and Secondary School
(3) Speech correction programs as related to goals of public and private education for school age children; roles of the professional; special emphasis on methods and materials appropriate to a variety of disabilities; emphasis on the communicative potential of the child. Prereq: For 450, Special Education 443 or Special Education 444. For 850m, graduate standing and 8 hours speech pathology courses. (F, S, Su)

451/381M Basic Clinical Practicum in Speech Pathology
(3) Minimum of 45 clock hours per credit hour of supervised practice in speech and hearing clinic; speech and hearing evaluation, therapy sessions, audiovisual records, and a colloquium. Prereq: For 451, Special Education 443 or Special Education 444. For 881m, graduate standing and permission of the instructor. (F, S, Su)

458/885M Introduction to The Physically Handicapped
(3) Nature and educational needs of children and youth who are physically handicapped; developmental, prevalence and types of children in educational programs; history, trends. Prereq: For 458, junior standing. (S, Su)

800V Special Projects
(1-3) A series of intensive courses especially for teachers-in-service scheduling; seminars or workshops, according to purpose.

86V Interdisciplinary Approaches to Developmental Disabilities
(3) This is an introduction course dealing with various developmental disabilities as viewed by different disciplines. Emphasis on children's rehabilitation institute. The different disciplines will combine and present their role in working with the developmentally disabled child. Prereq: For 86V, junior standing. (S)

919V Research Projects
(3) Individual or group study and analysis of specific problems.

913V Diagnostical and Remedial Instruction
(3) A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a reading center (i.e., initiating and operating a diagnostical remedial center); curriculum development, administration of programs, and special emphasis in establishing a center. Prereq: For 437 and graduate standing. (F, S, Su)

915V Measurement and Evaluation of Reading
(3) A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a reading center (i.e., initiating and operating a diagnostical remedial center); curriculum development, administration of programs, and special emphasis in establishing a center. Prereq: For 437 and graduate standing. (F, S, Su)

916V Speech Science III: Neuropsychology of Speech and Language
(3) Introduction to the neuropsychological aspect of speech and language. Prereq: For 443, junior standing. 2.5 GPA. (F, S, Su)

917V Clinical Audiology
(3) Voice: A course for advanced students in voice which will provide the student with the necessary training for establishing and operating a voice center (i.e., initiating and operating a voice center); curriculum development, administration of programs, and special emphasis in establishing a center. Prereq: For 437 and graduate standing. (F, S, Su)

918V Basic Clinical Practicum in Speech Pathology
(3) This course in practicum follows the course 451 which is a prerequisite. It is designed to give graduate students who need more than one semester of closely supervised practicum an opportunity to get this experience before being placed in a setting away from the classroom. Prereq: For 451, junior standing.

832M Psychology of Speech
(3) Psychological processes basic to speech, theoretical language learning, speech perception, semantics; interrelationships between speech and psychology.

842V Advanced Study in The Disorders of Voice
(3) Types and causes of voice disorders; selection of pathological voice disorders; special emphasis on rehabilitation procedures associated with individual involvement; praxis. (F)

843V Advanced Study in The Disorders of Rate and Rhythm
(3) Types and causes of speech disorders; rationale for case selection; survey of stuttering theories and therapies; special emphasis on rehabilitation procedures associated with individual involvement; praxis. (S)

844V Advanced Study in The Disorders of Aphasia
(3) Types and causes of language symbolization disorders; rationale for case selection; child, family and society's relationship to speech disorders; special emphasis on rehabilitation procedures associated with individual involvement; praxis. (S)

845V Current Practices in Speech Pathology
(3) This course provides for study and experience in speech therapy, programming utilizing behavioral modification techniques based on Skinnerian-behaviorist principles. It includes a review of current literature and relevant operant language and remedial procedures. (Su) Prereq: Special Education 443.

846V Diagnostic Methods in Communicative Disorders
(3) Tests and procedures for evaluating individuals with specific language problems and disabilities. Emphasis is placed on gaining familiarity with the brain mechanisms and sensory and motor functions which underlie human communication functions and disorders; individual projects. (S)

848V Clinical Audiology
(3) Audiologic assessment of hearing loss including otologic, auditory-neurologic, physical, and counseling of clients, new and experimental equipment, clinical procedures for selection and use of audiologic amplification prostheses; application of medicolegal problems. (F, S) Prereq: For 437 and graduate standing.

849V Basic Clinical Practicum in Speech Pathology
(3) This course in practicum follows the course 451 which is a prerequisite. It is designed to give graduate students who need more than one semester of closely supervised practicum an opportunity to get this experience before being placed in a setting away from the classroom. Prereq: For 451, junior standing.
university. (F,S,Su) Prereq: Permission of instructor.

851V Advanced Clinical Practicum in Speech Pathology (3) This course provides the student with an externship experience for clinical practice in either a school or a medical setting. Minimum of 45 clock hours of work is required for each credit hour per semester. (F,S,Su) Prereq: 845I and graduate standing.

852V Advanced Clinical Practicum in Speech Pathology (3) The third 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. (F,S,Su) Prereq: 855I.

853V Seminar in Speech Pathology (3) Student selects and investigates three different areas of current concern in speech pathology—initial survey, annotated bibliography, presentation of the major findings, conclusion, and final discussion of findings. Instructors will base their lectures on topics chosen by students for study. Clinical demonstrations, selected readings, and student participation in the seminar are evaluated.

855V Alatrygenic Speech Rehabilitation (2) Problems of voice and speech rehabilitation for the individual with a functional larynx—social, emotional, and medical considerations—as well as clinical procedures for esophageal, pharyngeal and buccal speech; implications for use of lip, tongue, and jaw mechanisms native to this area. (F) Prereq: Graduate standing. (3) An introduction to speech and voice problems.

856V Speech Problems of Cerebral Palsied Children (3) Identification of types of cerebral palsy by a location of lesion, motor symptomatology, and hand-to-hand-capped. Familiarity with philosophy, major literature and practices in each area, student will be prepared to present an area of related personal professional interests. Discussions, forums, and papers; visiting experts. (F,S) Prereq: Graduate standing and 6 hours speech pathology courses including voice problems.

864V Theoretical Approaches to Teaching the Developmentally Disabled Child (3) This is an advanced course that deals with the theoretical approaches to instruction. It is an analysis of various conceptual models developed to work with the developmentally disabled child. (F,S,Su) Prereq: SpEd 845I.

865V Occupational Training for The Mentally Retarded (3) Consideration of the following aspects: a review of the client/student population; a background of the field by looking at the legislation, prototypes, and history; a knowledge of the techniques involved; and an awareness of techniques used to teach and counsel in this field. (F,S,Su) Prereq: SpEd 845I.

867V Community Services for The Handicapped (3) An introduction to community and related services providing services to the handicapped. Program goals, objectives, activities, manpower needs, and involvement, coordination with related programs, administration of services, financing, and priority settings are studied for each agency. (F,S,Su)

870V Seminar in Speech Pathology (3) This course provides the student with an externship experience for clinical practice in either a school or a medical setting. Minimum of 45 clock hours of work is required for each credit hour per semester. (F,S,Su) Prereq: 845I and graduate standing.

871V Parent-Professional Relationships in Special Education (3) Professionals dealing with handicapped children become 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. (F) Prereq: SpEd 845I.

872U Basic Practicum in Special Education (3) This course provides participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. A program of supervised, successful experiences will be required of interest of the student. (F,S) Prereq: Master's degree and acceptance in the ed spec program.

872V Basic Observation and Student Teaching in Special Education (3) This course provides the student with experience with exceptional children for graduate students who have had at least 60 hours of classroom experience. Students will participate in observation, participation, teaching, and a weekly seminar. (F,S,Su) Prereq: SpEd 845I.

873U Advanced Practicum in Special Education (3) A second semester of participation in clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student. (F,S) Prereq: SpEd 872U.

873V Advanced Observation and Student Teaching in Special Education (3) A second semester of classroom experience with exceptional children for graduate students who have had at least 60 hours of classroom experience. Students will participate in observation, participation, teaching, and a weekly seminar. (F,S,Su) Prereq: SpEd 872V.

877V Research and Remediation Techniques for Child Developmental Handicapped (3) Consideration of the physically handicapped child as his unique exceptionalities require development of specialized methods and materials designed to meet his learning needs; an investigation of practices and procedure in the field of special education; application of materials and methods; development of a research project in an area of personal interest; the results of the research. (F,S,Su) Prereq: SpEd 845I.

911I Seminar in Organization and Administration of Reading Programs (3) The purpose of this course is to acquaint the student with different processes for organizing and managing reading programs. This course will emphasize practical applications of the knowledge gained in reading programs. (Cushenbery) (F) Prereq: One graduate reading course (equivalent) and permission of instructor.

918I Seminar in Research in Reading (3) A course for advanced graduate and postgraduate students relating to in-depth study of significant, recent research in reading with appropriate application for instructional procedures which may be useful in reporting. (F,S) Prereq: Field work at the Medical Center presenting some of their techniques for assisting the development of oral reading activities; discussion of related reading techniques; and the relationship of reading programs. (Cushenbery) (F) Prereq: One graduate reading course (equivalent) and permission of instructor.

Speech and Journalism

Journalism

420/420M Theories of Mass Communication (3) A study of the philosophical, political, social, and psychological theories of mass communication. Prereq: For 420, junior standing.

423/423M Public Relations (3) A study of the principles, problems and techniques of the public relations function through lectures, discussions, and practical experience, for graduate students in all areas of special education.

845I Communications Law (3) A study of the nature and form of public opinions, and its significance in the mass communication process. Prereq: For 450, junior standing.

845I-850M-891M Seminar in Mass Communications (3) A senior seminar applying historical and theoretical perspectives to current issues and developments in mass communications. Prereq: For 460-491, junior standing and 9 hours of speech and 9 hours of journalism.

Speech

401-402/801M-802M Advanced Projects in Speech (Each 1-3) Supporting regular courses; individual research projects, conferences, study abroad, and other special experiences for graduate students. Prereq: For 401-402, junior or senior standing and at least 9 units in the area of speech, or permission of instructor. (F,S,Su) Prereq: At least 9 hours in the general area of speech to be studied and permission of the department chairman.

411/411M Development of Rhetorical Theory (3) Historical and philosophical development of rhetorical theory and practice. Prereq: For 411, junior standing and 6 hours of speech. (F,S) Prereq: At least 9 hours of speech.

Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: For 452, senior standing or permission of the instructor.

452/852M Persuasion (3) Basic principles and psychological processes underlying persuasive communication; a review of various source, message, channel, and receiver variables and their influence on communication effectiveness. Prereq: Speech 101 and 3 hours of psychology or sociology, or permission of the instructor.

452/852M Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: For 452, senior standing or permission of the instructor. For 852M, permission of the instructor. (Same as Psychology 452/852M.)

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

462/862M Directing Forensics (3) To provide students training to teach speech in high school or college with a philosophy and detailed knowledge of how to direct a forensic program. Prereq: Junior standing and Speech 112 or permission.

481V Introduction to Research in Speech (3) Basic components, function, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal. Prereq: Junior standing.

411V Seminar: Modern Public Address (3) Studies in figures, movements and institutions prominent in modern public address. May be repeated. Prereq: Graduate standing and permission.

815V College Debate Workshop (5) A comprehensive analysis of current intercollegiate debate proposition. Also stresses methods of coaching debate and debate tournament management at the college level. Students taking this course may not only receive credit for Speech 862m, directing forensics, toward a degree at UNO. Prereq: Graduate standing and permission.

830V Seminar in Broadcasting (3) Substantive study into specialized areas and modes of broadcasting. Content will vary according to the individual semester being offered. Course may be repeated. Prereq: Graduate standing and permission.

830V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication, with emphasis on theoretical models and their application to various professional interests. Prereq: Basic statistics, or permission of instructor. (Same as Psychology 485V.)


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

540 Seminar in Small Group Communication (3) Research and theory in the process of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Brilliant) Prereq: Speech 801V or equivalent, or basic statistics, or permission of instructor. (Same as Sociology 484V and Psychology 940.)

555 Seminar in Applications of Non-Verbal Communication Theory (3) Theories and research on the development, facilitation and barriers of human non-verbal communications. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. Prereq: Course in research methods or permission of instructor.

(3) Same as Secondary Education 936 and Psychology 936.)

Technical Institute

Industrial Technology

421/821M Contemporary Trends in Industrial Education for The World of Construction (3) Introduction to a new program development in industrial education, with major emphasis placed upon the world of construction curriculum. Analysis of basic construction operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory. Prereq: For 421, junior. For 821M, graduate standing.

422/822M Contemporary Trends in Industrial Education for The World of Manufacturing (3) Introduction to a new program development in industrial education, with major emphasis placed upon the world of manufacturing curriculum. Analysis of basic manufacturing operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory. Prereq: For 422, junior.

Urban Studies

801V The Metropolis As A Public Economy (3) The integration of politics and economics in the metropolitan system as they affect metropolitan problems such as poverty, transportation, housing, crime, education, and the environment will be analyzed.

802V Race, Ethnicity, and American Urban Culture (3) This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.

833V-884V Interdisciplinary Seminar On The Urban Community (3-6) 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.)
FACULTY
AND
ADMINISTRATION

GRADUATE FACULTY

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

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

FREDERICK W. ADRIAN ........ History
Ph.D., Ohio State University, 1942; Professor

JAMES C. AKERS ........... Special Education
Ed.D., Oklahoma State University, 1969; Associate Professor

DAVID M. AMRHEINE ....... Marketing
D.B.A., George Washington University, 1971; Associate Professor

CLIFFORD ANDERBERG ........ Philosophy and Religion
Ph.D., University of Wisconsin-Madison, 1953; Professor

GORDON S. ANDERSON ....... Economics
Ph.D., University of Wisconsin-Madison, 1973; Associate Professor

AARON ARMFIELD .......... Special Education
Ed.D., University of Northern Colorado, 1964; Professor

BRUCE P. ARMHILL ......... English
Ph.D., Texas Christian University, 1952; Professor

GEORGE W. ARK ......... Sociology
Ph.D., University of Missouri-Columbia, 1966; Professor

NICHOLAS ARONIS .......... Geography and Geology
Ph.D., Clark University, 1967; Professor

GORDON M. BECKER (GF) .... Psychology
Ph.D., University of Pittsburgh, 1955; Professor

RONALD E. BEER ............. Educational Administration and Supervision
Ph.D., Kent State University, 1955; Associate Professor

BILL D. BELL (GF) ......... Geology
Ph.D., University of Missouri, 1973; Associate Professor

JOSEPH V. BENAK .......... Civil Engineering
Ph.D., University of Illinois-Urbana, 1967; Professor

ROBERT W. BENNEKE .... Banking and Finance
D.B.A., University of Colorado-Boulder, 1966; Professor

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

ROGER M. BERG .......... Elementary and Early Childhood Education
Ph.D., Northwestern University, 1972; Associate Professor

JOSEPH BERTINETTI ....... Counseling and Guidance
Ph.D., University of New Mexico, 1972; Assistant Professor

RICHARD H. BLAKE .......... Counseling and Guidance
Ph.D., University of Iowa, 1967; Professor

WILLIAM BLUZEK (GF) .... Philosophy and Religion
Ph.D., University of Missouri-Columbia, 1975; Associate Professor

ROBERT M. BUNSEN ......... Secondary/Post-Secondary Education
Ed.D., University of Missouri-Lincoln, 1988; Professor

RICHARD BUTLER ....... Counseling and Guidance
Ph.D., University of Missouri-Columbia, 1970; Associate Professor

SUNNY ANDREWS - Social/Health

RONALD BURR - Phil./Rel.
BART DENNERTY, Civil Engineering and Environmental Mechanical Engineering, University of Nebraska, 1970; Professor.

ROBERT J. DETISCH, English, Ph.D., University of Wisconsin-Madison, 1967; Associate Professor.

CHARLES P. DONWEB, Mathematics and Computer Science, University of New Mexico, 1974; Assistant Professor.

J. SCOTT DOWNING, Mathematics and Computer Science, University of Nebraska, 1969; Associate Professor.

JOSEPH H. DUNN, Educational Foundations, University of Missouri-Columbia, 1955; Professor.

LAWRENCE E. EHLERS, General Engineering, Oklahoma State University, 1962; Associate Professor.

KENNETH G. ELLER, Foreign Language and Literature, University of Kansas, 1969; Associate Professor.

JOHN T. FARR, Political Science, University of Texas-Austin, 1969; Associate Professor.

DEANA C. FINKLER, Psychology, University of Nebraska-Lincoln, 1971; Associate Professor.

RICHARD B. FLYNN, Health, Physical Education and Recreation, University of Nebraska, 1970; Professor.

FRANK S. FORBES, Law and Society, University of Iowa, 1963; Professor.

DEAN F. FRANK, Communications, University of Minnesota, 1974; Associate Professor.

JOHN W. FLOCKEN, Physics, University of Nebraska-Lincoln, 1969; Associate Professor.

KENNETH J. GIBREATH, Special Education, M.S., University of Nebraska at Omaha, 1967; Assistant Professor.

G. WAYNE GILDER, Educational Foundations, University of Nebraska-Lincoln, 1964; Professor.

DONALD J. GRANDJEAN, Secondary/Post-Secondary Education, Arizona State University, 1967; Professor.

RAYMOND A. GRIER, Physics, University of Nebraska-Lincoln, 1969; Associate Professor.

E. J. GUNN, History, Ph.D., Louisiana State University, 1963; Professor.

PAUL A. HAEDER, Mathematics and Computer Science, University of Iowa, 1968; Professor.

NORSTAN N. HAHN, History, University of Nebraska, 1972; Assistant Professor.

DONALD R. HAKALA, Banking and Finance, Ph.D., Indiana University, 1969; Associate Professor.

MURV R. HALL, Textiles, Clothing and Design, University of Nebraska-Lincoln, 1971; Professor.

NORMAN H. HAMM, Psychology, Ph.D., Kent State University, 1968; Associate Professor.

GORDON D. HANSEN, Psychology, University of Nebraska-Lincoln, 1972; Associate Professor.

ROBERT C. HARRER, management, Ph.D., University of Colorado-Boulder, 1971; Assistant Professor.

SCOTT HARRINGTON, Counseling and Guidance, Ph.D., University of Nebraska-Lincoln, 1972; Assistant Professor.

DARREL F. HENDRICKS, Psychology, Ph.D., Tulane University, 1956; Associate Professor.

ERNEST J. KENNETH, Jr., Educational Administration and Supervision, Ed.D., University of Kansas, 1964; Professor.

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MERLIN HOSEF, Sociology, University of Oregon, 1976; Assistant Professor.

IRENE HOUVER, Elementary and Early Childhood Education, University of Arizona, 1971; Assistant Professor.

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### Additional Faculty

- Robert Sweeney (m) Bus. Adm.
- Virgil Clift (Ed.) Educ. Found.
- Bruce Gaver, History