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OFFICIAL CALENDAR

SUMMER SESSIONS 1973

June 8-9 Regular Registration.
June 11-July 13 First Session.
June 11-Aug. 2 Evening Session.
June 22 Last day for filing admissions credentials for admission to the Second Summer Session 1973.*
July 4 Holiday. (University closed—day and evening.)
July 16-Aug. 17 Second Session.
July 20 Last day for filing applications for degrees to be conferred August 31, 1973 (No ceremony).
Aug. 15 Signed and approved theses due in the Graduate Office.

FIRST SEMESTER 1973-74

July 15 Last day for submitting credentials for admission to the Graduate College for the First Semester 1972-74.*
August 1 Last day for submitting credentials for admission to an undergraduate college for the First Semester 1973-74.
August 20 Beginning of Academic Year.
August 22-23 Final Registration.
August 24-31 Change of class schedules.
August 27 First Semester begins at 0730 both day and evening classes.
August 31 Last day up to 1600 for change of class schedules.
(Adding a class to a schedule, changing a class from "audit" to a grade enrollment, or changing a CR/NC class registration to a grade registration.)
September 3 Labor Day. University closed.
October 13 Homecoming Football Game.
October 15 Last day for filing applications for degrees to be conferred in December.
October 27 Parent's Day.
October 22 Due: Mid-term (8th week) report from faculty for grades under C for all undergraduates.
November 9 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.
November 20 Thanksgiving recess begins at 2140.
November 22-23 University closed. Holiday.
November 26 Classes resume at 0730.
December 14 Status report for all prospective graduating students due in Registrar's Office by 1200.

SECOND SEMESTER 1973-74

January 1 Holiday. University closed.
January 2 Last day for submitting credentials for admission to an undergraduate college for the Second Semester 1973-74.
January 2-11 Activities to be arranged.
January 9-10 Final Registration.
January 11-18 Change of class schedules.
January 14 Second Semester begins at 0730 both day and evening classes.
January 18 Last day up to 1600 for a change of class schedules.
(Adding a class to a schedule, changing a class from "audit" to an enrollment for a grade, or changing a CR/NC class registration to a grade registration.)
March 15 Last day for filing applications for degrees to be conferred in May.
March 18 Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.
March 23 Spring vacation begins at 1200.
March 25-26 Holiday. University closed.
April 1 Classes resume at 0730.
April 5 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.
April 7 Honors Day at 1430.
April 15 Last day for submitting credentials for admission to the Graduate College for the Evening Summer Session 1973-74.
May 3 Status Report for all prospective graduating students due in Registrar's Office by 1200.
May 8 Last day of classes.
May 10 Grades due in Registrar's Office by 1600.
May 11 Commencement.
May 15 Last day for submitting credentials for admission to the Graduate College for the First Summer Session 1973-74.*
May 25 Alumni Achievement Day.
May 27 Memorial Day. University closed.

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 59.

UNIVERSITY OF NEBRASKA AT OMAHA

December 15 Last day for submitting credentials for admission to the Graduate College for the Second Semester 1973-74.*
December 19 Last day for classes.
December 21 Grades due in Registrar's Office by 1600.
December 22 Commencement at 1000.

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 59.
SUMMER SESSIONS 1974

May 20-June 7  Spring Intersession.
May 20-July 12  Evening Session.
June 1         Last day for submitting credentials for admission to an undergraduate college for Summer Session.
June 5-6      Final Registration.
June 7-11     Change of Class schedules.
June 10-July 12  First Summer Session.
June 15     Last day for submitting credentials for admission to the Graduate College for the Second Summer Session 1973-74.*
July 1       Last day for submitting credentials for admission to an undergraduate college for the second Summer Session 1973-74.
July 4-5    Holiday. University closed.
July 8     Last day for filing applications for degrees to be conferred August 31, 1974.
July 15-August 16 Second Summer Session.
July 15     Last day for submitting credentials for admission to the Graduate College for the First Semester 1974-75.*
August 1    Last day for submitting credentials for admission to an undergraduate college for the First Semester 1974-75.
August 9    Status Report for all prospective graduating students due in Registrar's Office by 1200.
August 17   Summer Commencement.
August 21   Final grades due in Registrar's Office by 1600.

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 59.
GRADUATE FACULTY
1973-74

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

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

FREDERICK W. ADRIAN
Ph.D., Ohio State University, 1942; Professor

JAMES C. AKERS
Ed.D., Oklahoma State University, 1969; Associate Professor

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

AARON ARMFIELD
Ed.D., Northern Colorado University, 1964; Professor and Chairman of Department

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

GEORGE BARGER
Ph.D., University of Missouri, 1964; Professor and Chairman of Department

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

PAUL L. BECK
Ph.D., University of Nebraska-Lincoln, 1951; Professor

*GORDON BECKER
Ph.D., University of Pittsburgh, 1935; Professor

JOSEPH V. BENAK
Civil Engineering
Ph.D., University of Illinois, 1967; Registered Professional Engineer; Professor

ROBERT W. BENECKE
Business Administration (Finance)
D.B.A., University of Colorado, 1966; Professor

KENNETH BERRY
Ph.D., Texas Christian University, 1964; Assistant Professor of Medical Psychology, College of Medicine (Joint Appointment)

HOLLIE B. BETHEL
Elementary and Early Childhood Education
Ed.D., University of Colorado, 1957; Professor

JOHN V. BLACKWELLE
Art
Ph.D., State University of Iowa, 1957; Professor and Dean of the College of Arts and Sciences

RICHARD BLAKE
Counseling and Guidance
Ed.D., University of Missouri, 1960; Professor and Chairman of Department

WILLIAM L. BLIZZ
Ph.D., University of Missouri, 1970; Assistant Professor

M. JEAN BRESSLER
Secondary Education and English
Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor

*BARBARA L. BRILHART
Secondary Education
Ph.D., Pennsylvania State University, 1965; Associate Professor

*JOHN K. BRILHART
Secondary Education
Ph.D., Pennsylvania State University, 1952; Professor and Chairman of Department

PAUL L. BECK
History
Ph.D., University of Pittsburgh, 1935; Professor

*JOAN CARRIGAN
History
Ph.D., Louisiana State University, 1941; Professor

*ELTON S. CARTER
Speech
Ph.D., Northwestern University, 1960; Professor and Dean, Graduate College; Chairman, Graduate Faculty; Ex officio member, Graduate Council, University of Nebraska System

EDWIN L. CLARK
Speech (Theatre)
Ph.D., State University of Iowa, 1951; Professor; Director, University Theatre

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

JAMES J. CONWAY
Business Administration
D.B.A., Texas Tech University, 1970; Professor (Statistics)

*HARRY J. CROCKETT, JR.
Ph.D., University of Michigan; Graduate Lecturer

*DONALD CUSHNER
Ph.D., University of Missouri, 1964; Foundations Professor; Director, Reading Clinic

*HARL A. DALSTROM
Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor and Chairman of Department

HAROLD L. DAVIS
Industrial Technology
Ed.D., University of Nebraska-Lincoln, 1976; Associate Professor
KENNETH A. DEFFENBACHER  
Ph.D., University of Washin ton, 1968; Associate Professor

WILLIAM deGRAW  
Ph.D., Washington State University, 1972; Assistant Professor

BARTHOLOMEW DENNEHY  
Civil Engineering
Ph.D., Texas A. and M. University 1971; Registered Professional Engineer; Associate Professor and Associate Dean, The College of Engineering and Architecture; Director, Continuing Engineering Education

ROBERT J. DETISCH  
Ph.D., University of Wisconsin, 1967; Assistant Professor

J. SCOTT DOWNING  
Mathematics
Ph.D., Michigan State University, 1969; Associate Professor

LOISJEAN DRAKE  
Economics
Ph.D., University of Nebraska-Lincoln, 1972; Assistant Professor

JOSEPH G. DUNN  
Educational Foundations
Ed.D., University of Missouri, 1959; Professor

LAWRENCE E. EHLS  
General Engineering
Ph.D., Oklahoma State, 1968; Registered Professional Engineer; Associate Professor and Chairman of Department

KENNETH ELLER  
Foreign Languages
Ph.D., University of Kansas, 1969; Associate Professor

ROBERT J. ELLINGSON  
Ph.D., University of Nebraska-Lincoln, 1965, M.D., University of Nebraska-Lincoln, 1963; Professor of Medical Psychology and of Physiology College of Medicine (Joint Appointment)

JOHN T. FARR  
Political Science
Ph.D., University of Texas, 1969; Assistant Professor

JOHN W. FLOCKEN  
Physics
Ph.D., University of Nebraska-Lincoln, 1969; Associate Professor

RICHARD B. FLYNN  
Health, Physical Education and Recreation
Ed.D., Columbia University, 1970; Associate Professor and Chairman of Department

FRANKLIN S. FORBES  
Business Administration (Law)
J. D., State University of Iowa, 1963; Professor

JOSEPH A. FREIVALD  
Mathematics
Ph.D., University of Oklahoma, 1961; Associate Professor

EUGENE FREUND  
Educational Foundations
Ph.D., Wayne State University, 1969; Associate Professor

CRAY FULLERTON  
Special Education
Ph.D., State University of Iowa, 1965; Graduate Lecturer

DENNIS A. FUS  
Speech
Ph.D., Indiana University, 1972; Assistant Professor

DALE GAEDDERT  
History
Ph.D., Ohio State University, 1969; Associate Professor

WILLIAM L. GAINES  
History
Ph.D., Yale University, 1951; Professor and Dean, Academic Affairs

MARGARET GESSMAN  
Mathematics
Ph.D., Montana State College, 1958; Associate Professor

RICHARD E. GIBSON  
Civil Engineering
Ph.D., University of Colorado, 1969; Registered Professional Engineer; Professor and Chairman of Department

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

DONALD J. GRANDGENETT  
Secondary Education
Ed.D., Arizona State University, 1967; Associate Professor

RAYMOND A. GUENTHER  
Physics
Ph.D., Illinois Institute of Technology, 1969; Associate Professor

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

GEORGE F. HADDIX  
Mathematics
Ph.D., Iowa State University, 1969; Assistant Professor

PAUL A. HAEDER  
Mathematics
Ph.D., Iowa State University, 1968; Professor and Chairman of Department

NORMAN H. HAMM  
Psychology
Ph.D., Kent State University, 1968; Associate Professor

ROBERT D. HARPER  
English
Ph.D., University of Chicago, 1949; Professor

SCOTT HARRINGTON  
Counseling and Guidance
Ph.D., University of Colorado, 1971; Assistant Professor

GEORGE T. HARRIS  
Business Administration (Finance)
Ph.D., State University of Iowa, 1953; The Frederic W. Kayser Professor of Finance; Chairman, Graduate Department of Business Administration; Professor and Chairman of Department

ROGER R. HARVEY  
Special Education
Ph.D., East Texas State University, 1970; Associate Professor

SHELTON HENDRICKS  
Psychology
Ph.D., Tulane University, 1967; Associate Professor

ELAINE HESS  
Sociology
Ph.D., University of Nebraska-Lincoln, 1971; Assistant Professor

WAYNE M. HIGLEY  
Business Administration (Accounting and Quantitative Methods)
Ph.D., University of Illinois, 1962; CPA; Professor

JACK A. HILL  
Business Administration (Management)
Ph.D., University of Texas, 1964; Professor

PETER W. HILL  
Art
M.F.A., Cranbrook Academy of Art, 1968; Professor and Chairman of Department

ROGER HOBURG  
Chemistry
Ph.D., University of Nebraska-Lincoln, 1967; Associate Professor

WILLIAM C. HOCKETT  
Business Administration (Accounting)
M.B.A., University of Denver, 1949; C.P.A.; Professor

MERLIN I. HOFSTETTER  
Sociology
Ph.D., University of Oregon, 1970; Assistant Professor

IRENE HOOVER  
Elementary and Early Childhood Education
Ed.D., University of Arizona, 1971; Assistant Professor

JAMES Q. HOSSACK  
Civil Engineering
M.S.C.E., University of Nebraska-Lincoln, 1959; Registered Professional Engineer; Professor

HELEN HOWELL  
Elementary and Early Childhood Education
Ed.D., University of Colorado, 1960; Professor
FRANCIS M. HURST  Psychology  Ed.D., Indiana University, 1960; Professor
CHARLES O. INHAM  Biology  Ph.D., University of Utah, 1961; Associate Professor
ROBERT INNES  Psychology  Ph.D., University of Nebraska-Lincoln, 1961; Assistant Professor of Medical Psychology, College of Medicine (Joint Appointment)
ORIGEN J. JAMES, JR.  Business Administration  D.B.A., Texas Tech University, 1969; Associate Professor
HARL R. JARMIN  Counseling and Guidance  Ph.D., University of Missouri, Kansas City, 1969; Associate Professor
JAMES B. JOHNSON  Political Science  Ph.D., Northwestern University, 1972; Assistant Professor
JAMES L. JOY  Economics  Ph.D., University of Denver, 1971; Assistant Professor
ANTHONY JUNG  Foreign Languages  Ph.D., University of Illinois, 1972; Assistant Professor
JOHN C. KASHER  Physics  Ph.D., Boston College, 1970; Assistant Professor
DARRELL F. KELLAMS  Educational Administration  Ed.D., University of Kansas, 1964; Professor and Chairman of Department
ERNST J. KEMNITZ  Chemistry  Ph.D., University of Nebraska-Lincoln, 1971; Assistant Professor
PAUL C. KENNEDY  Educational Administration and Educational Foundations  Ed.D., University of Kansas, 1955; Professor and Dean, College of Education
C. ROBERT KEPPEL  Chemistry  Ph.D., Massachusetts Institute of Technology, 1950; Professor
Clemm KESSLER III  Psychology  Ph.D., Western Reserve University, 1967; Associate Professor
BRUCE A. KIRCHHOFF  Business Administration  Ph.D., University of Utah, 1972; Assistant Professor (Management)
RICHARD G. KOHLAN  Psychology  Ph.D., University of Minnesota, 1965; Assistant Professor
BERNARD D. KOLASA  Political Science  Ph.D., University of Nebraska-Lincoln, 1969; Associate Professor
YOUSSIF I. KOUATLY  Business Administration  Ph.D., University of Pennsylvania, 1971; Associate Professor (Insurance)
EDWARD LaCROSSE  Special Education  (Teaching the Mentally Retarded)
W.C.B. LAMBERT  Political Science  Ph.D., Washington University, 1950; Professor
RICHARD L. LANE  English  Ph.D., University of Arkansas, 1968; Professor
JOSEPH C. LAVOIE  Psychology  Ph.D., University of Wisconsin, 1970; Assistant Professor
WILLIAM B. LEMAR  Engineering  M.E., Yale University, 1947; Registered Professional Engineer; Associate Professor
MARY JANE LICKTEIG  Elementary and Early Childhood  Ed.D., University of Oregon, 1972; Assistant Professor
WALTER W. LINSTROMBERG  Chemistry  Ph.D., University of Missouri, 1968; Professor
WILFRED LOGAN  Sociology  Ph.D., University of Michigan, 1959; Graduate Lecturer
JOHN W. LUCAS  Business Administration (Marketing)  M.B.A., Ohio State University, 1930; LL.D., University of Omaha, 1968; Emeritus Professor
NORMAN J. LUNA  Foreign Languages  Ph.D., University of Colorado, 1969; Assistant Professor
STEEL R. LUND  Biology  Ph.D., University of Utah, 1964; Associate Professor
THOMAS MAJESKI  Art  M.F.A., University of Iowa, 1962; Associate Professor
JOHN P. MALONEY  Mathematics  Ph.D., Georgetown University, 1965; Associate Professor
D. N. MARQUARDT  Chemistry  Ph.D., State University of Iowa, 1940; Professor and Chairman of Department
E. GRANT MASLAND  Speech  Ph.D., Claremont Graduate School, 1971; Assistant Professor
ROBERT P. McCUNE  Urban Studies and Economics  Ed.D., Ball State University, 1971; Assistant Professor; Acting Director of Research and Planning for SPACS; Assistant Professor of Urban Studies
JOHN J. McKENNA  English  Ph.D., Ohio University, 1970; Assistant Professor
KATHLEEN A. MCKENNY  Special Education  (Education of the Deaf)
W.C.B. LAMBERT  Educational Administration  Ed.D., Teachers College, Columbia University, 1964; Graduate Lecturer
W.C.B. LAMBERT  Political Science  Ph.D., Washington University, 1943; Professor of Psychiatry, College of Medicine (Joint Appointment)
ORVILLE D. MENARD  Political Science  Ph.D., University of Nebraska-Lincoln, 1961; Associate Professor
C. RAYMOND MILLIMET  Psychology  Ph.D., Oklahoma State University, 1968; Associate Professor
JOYCE MINTER  Business Administration  Ed.D., Indiana University, 1967; Professor (Communications)
ROBERT B. MOORE  Speech (Theatre)  Ph.D., University of Denver, 1971; Assistant Professor
WOODROW L. MOST  Foreign Language  Ph.D., Laval University, 1953; Professor and Chairman of Department
KIRK E. NAYLOR  Educational Administration  Ed.D., University of Kansas, 1952; Professor
GLEN A. NEWKIRK  English  Ph.D., University of Denver, 1956; Professor
JOHN M. NEWTON  Psychology  Ph.D., Ohio State University, 1955; Professor and Chairman of Department
DONALD A. NIELSEN  Economics  Ph.D., Syracuse University, 1976; Associate Professor
<table>
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<tr>
<th>Name</th>
<th>Degree</th>
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<th>Field</th>
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<tr>
<td>JOHN R. NYE</td>
<td>Ph.D.</td>
<td>Iowa State University, 1968</td>
<td>Sociology</td>
</tr>
<tr>
<td>B. GALE OLESON</td>
<td>Ph.D.</td>
<td>University of Wyoming, 1953</td>
<td>Counseling and Guidance</td>
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<tr>
<td>ROBERT C. O'REILLY</td>
<td>Ed.D.</td>
<td>University of Kansas, 1962</td>
<td>Educational Administration</td>
</tr>
<tr>
<td>RICHARD F. ORTMAN</td>
<td>Ph.D.</td>
<td>University of Wisconsin, 1971</td>
<td>Business Administration</td>
</tr>
<tr>
<td>RICHARD A. OVERFIELD</td>
<td>Ph.D.</td>
<td>University of Maryland, 1968</td>
<td>History</td>
</tr>
<tr>
<td>RUSSELL W. PALMER</td>
<td>Ph.D.</td>
<td>University of Iowa, 1969</td>
<td>Religion</td>
</tr>
<tr>
<td>JAMES B. PETERSON</td>
<td>Ph.D.</td>
<td>University of Texas, 1958</td>
<td>Music</td>
</tr>
<tr>
<td>WILLIAM PETROWSKI</td>
<td>Ph.D.</td>
<td>University of Wisconsin, 1966</td>
<td>History</td>
</tr>
<tr>
<td>DONALD J. PPLASTERER</td>
<td>Ed.D.</td>
<td>University of Nebraska, 1963</td>
<td>Counseling and Guidance</td>
</tr>
<tr>
<td>ROSS A. PILKINGTON</td>
<td>Ed.D.</td>
<td>University of Nebraska-Lincoln, 1971</td>
<td>Counseling and Guidance</td>
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<tr>
<td>WILLIAM C. PRATT</td>
<td>Ph.D.</td>
<td>Emory University, 1966</td>
<td>History</td>
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<td>CHERYL H. PREWETT</td>
<td>M.S.</td>
<td>Oklahoma State University, 1939</td>
<td>Industrial Technology</td>
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<td>LEONARD W. PRESTWICH</td>
<td>Ph.D.</td>
<td>Ohio State University, 1957</td>
<td>Business Administration</td>
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<td>*PAUL V. PRIOR</td>
<td>Ph.D.</td>
<td>University of Iowa, 1950</td>
<td>Biology</td>
</tr>
<tr>
<td>GEORGE R. RACHFORD</td>
<td>Ed.D.</td>
<td>Indiana University, 1965</td>
<td>Educational Administration</td>
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<tr>
<td>JOHN P. RADUCHA</td>
<td>Ed.D.</td>
<td>North Texas State University, 1979</td>
<td>Health, Physical Education and Recreation</td>
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<tr>
<td>M. N. REDDY</td>
<td>Ph.D.</td>
<td>Oklahoma State University, 1965</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>HAROLD J. RETALICK</td>
<td>Ph.D.</td>
<td>Clark University, 1956</td>
<td>Geography</td>
</tr>
<tr>
<td>HARRY W. REYNOLDS, JR.</td>
<td>Ph.D.</td>
<td>University of Pennsylvania, 1984</td>
<td>Political Science and Public Administration</td>
</tr>
<tr>
<td>ROY M. ROBBINS</td>
<td>Ph.D.</td>
<td>University of Wisconsin, 1929</td>
<td>History</td>
</tr>
<tr>
<td>STEPHEN P. ROBBINS</td>
<td>Ph.D.</td>
<td>University of Arizona, 1971</td>
<td>Business Administration</td>
</tr>
<tr>
<td>MICHAEL J. ROCKLER</td>
<td>Ph.D.</td>
<td>University of Minnesota, 1969</td>
<td>Secondary Education</td>
</tr>
</tbody>
</table>
DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

<table>
<thead>
<tr>
<th>Department or Area</th>
<th>Minor Only</th>
<th>Master of Arts</th>
<th>Master of Science</th>
<th>Other</th>
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<tbody>
<tr>
<td>Art</td>
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<td>Civil Engineering</td>
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<td>Economics</td>
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<td>Education</td>
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<tr>
<td>Educational Foundations</td>
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<tr>
<td>Elementary and Early Childhood Education</td>
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<td>Secondary Education</td>
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<tr>
<td>Counseling and Guidance</td>
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<td>Agency Counseling</td>
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<td>Secondary Counseling</td>
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<td>Special Education</td>
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<tr>
<td>Teaching the Deaf</td>
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<td>Teaching the Emotionally Disturbed</td>
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<td>Teaching the Mentally Retarded</td>
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<td>Speech Pathology</td>
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<td>Educational Administration and Supervision</td>
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<td>Elementary Administration</td>
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<td>Experimentation and Development</td>
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<td>Urban Education</td>
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<td>Health, Physical Education and Recreation</td>
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<td>English</td>
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<td>Foreign Languages</td>
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<td>French</td>
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<td>Public Administration</td>
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<td>Social Work</td>
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<td>Sociology</td>
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<td>Applied Sociology</td>
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<tr>
<td>Speech</td>
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* Member, Graduate Faculty, University of Nebraska System
EXAMINATIONS FOR GRADUATE STUDENTS

Graduate Record Examination

Graduate students are required to take the Graduate Record Examination (GRE) during their first semester of enrollment in the Graduate College, unless they have taken it previously and have made the scores available to the Dean of the Graduate College. The examination is not used to exclude admission at the Masters level.

Admission Test for Graduate Study in Business

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

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

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

All testing at UN-O in the two categories above is under the supervision of Dr. Gale Oleson, Director, Academic Testing Bureau. Registration deadlines and testing dates are available from the Office of the Academic Testing Bureau, Administration Building 213 or the Graduate Office, Adm 203.

Graduate Record Examination
(Both General Aptitude and Advanced Area Sections are Required)

<table>
<thead>
<tr>
<th>Registration Deadlines</th>
<th>Testing Dates</th>
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<tbody>
<tr>
<td>March 28, 1973</td>
<td>April 28, 1973</td>
</tr>
<tr>
<td>May 16, 1973</td>
<td>June 16, 1973</td>
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<td>September 20, 1973</td>
<td>October 27, 1973</td>
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<td>January 19, 1974</td>
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<td>March 27, 1974</td>
<td>April 27, 1974</td>
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<tr>
<td>May 15, 1974</td>
<td>June 15, 1974</td>
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</tbody>
</table>

Counseling and Guidance Department

The Connecting and Guidance Department requires those wishing to pursue a degree program in counseling to take admissions tests in addition to the Graduate Record Examination (see page 59).

The Test of English as a Foreign Language

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

ACREDITED STANDING

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

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

UNIVERSITY REGULATIONS

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

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

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

In the Graduate College, requirements may be made retroactive only for those students who do not maintain a continuity of enrollment. "Continuity" means that the student is enrolled in both semesters of every academic year or in at least one session every summer until all requirements for the degree have been satisfied.
GRADUATE COLLEGE
Elton S. Carter, Dean

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

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1948. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College.

The Graduate College provides the opportunity for more advanced education than the undergraduate work upon which all graduate programs are founded.

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

1. To work toward these degrees: Master of Arts, Master of Science, Master of Business Administration, Master of Public Administration, Master of Social Work, Specialist in Education.

2. To earn graduate credit for the issuance or renewal of certificates for teachers, administrators and educational psychologists.

3. To provide for scholarly and professional advancement.

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

*Now the University of Nebraska at Omaha

ADMINISTRATION

The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses which may be taken for graduate credit. The Dean of the College serves as Chairman of the Graduate Faculty.

Any member of the Graduate Faculty may make nominations for appointment to the Graduate Faculty. In addition, such nominations require the recommendation of a Department Chairman, the cognizant Dean and the concurrence of the Dean of the Graduate College. Typically, the Department Chairman will be the Chairman of the department in which the nominated person holds academic rank. In other cases (persons who do not hold departmental academic rank, inter-departmental pro-

grams, etc.) the Chairman of the department in which the person will be involved in graduate instruction or advising shall recommend. (Standard nominating forms are available in the Graduate College Office.)

The Academic Standards and Curriculum Committee shall review these nominations and recommend to the voting members of the Graduate Faculty those persons who meet the qualifications for membership. Qualifications for membership are:

1. He has an earned doctorate or the equivalent; or, if a doctorate is not usual in the field in which he teaches, a terminal degree and special competence in the field being taught.

2. He has demonstrated ability in scholarly research or creative work.

3. He has one year of teaching experience at the college level (other than graduate assistantships or part-time instructing) or equivalent experience, plus research publication or creative production with evidence of peer acceptance, or

He has two years of teaching experience at the college or university level (other than graduate assistantships or part-time instruction) or equivalent experience.

4. He holds a full-time appointment in the University System with faculty rank of assistant professor or higher, or is qualified as a graduate lecturer.

Graduate faculty members have the responsibility within their departments to design and revise courses for which graduate credit is offered. They counsel graduate students in major and minor fields and serve on graduate students' committees.

Approval to teach for persons who are not members of the UNO Graduate Faculty may be secured by recommendation from the department head for approval on behalf of the faculty by the Graduate Dean.

ACADEMIC STANDARDS AND CURRICULUM COMMITTEE

The Academic Standards and Curriculum Committee of the Graduate Faculty is an eleven-member group. This group considers graduate policies, procedures and academic offerings and makes its recommendations to the Graduate Faculty. The current members of the Academic Standards and Curriculum Committee are: Dr. James Akers, Dr. Barbara Buchalter, Dr. Larry Ehlers, Dr. Eugene Freund, Dr. Raymond Guenther, Dr. Hali Jarmin, Dr. Bruce Kirchhoff, Dr. Orvile Menard, Dr. David Sirota, Dr. Ralph Wardle, Dr. Charles Wilson; Dean Elton S. Carter, Chairman; and Mr. Jack Ihnens, graduate students' representative.

SENATE RESEARCH COMMITTEE

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

Standing members of the Committee are the Director of Grants Development and the Dean of the Graduate College. The current elected members are Dr. Bruce Kirchhoff, Chairman; Dr. Kenneth Deffenbacher; Dr. Allen Weber; Dr. Charles Wilson; Dr. Raymond Ziebarth; and Monte Anderson and Phoebe Herbst, graduate student representatives.
GRADUATE PROGRAM COMMITTEES

Each department (or area) offering a graduate degree has a Graduate Program Committee of at least three members. This committee and its chairman are chosen annually by the graduate faculty members of the department. In its department the Graduate Program Committee has the responsibility for the planning of the graduate program, the general supervising of the candidates for graduate degrees and the examining of students by means of the qualifying examination and the final comprehensive examination when these examinations are not given by a student’s thesis or field project supervisory committee.

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

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

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 $2520. 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 abnormal high work load to the Graduate Dean for his approval.

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

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

TUITION WAIVERS FOR GRADUATE STUDENTS

Several tuition waivers are available for qualified students who have been admitted to the Graduate College. Eligibility is based on academic qualifications and financial need.

Graduate assistantships and tuition waivers cannot be awarded simultaneously to anyone.

The selection of applicants to be awarded graduate tuition waivers is decided by the UN-O Graduate Fellowship Committee: Dr. Robert Benecke; Dr. Sharpe Lewis; Dr. Norman Hamm; Assistant Dean (College of Education) Tom Norwood; Dr. John Shroder; and Dean Elton Carter, Chairman.

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

SCHOLARSHIPS

Phi Delta Gamma, a national sorority for women, offers an annual scholarship of $200 to a woman graduate student who has completed approximately half her graduate work with an excellent record. For applications and details concerning this scholarship, contact the Dean of the Graduate College. Applications should be in the Graduate Office by March 1 of each year to be considered for the following academic year. Loans are also available to qualified graduate students.

ORGANIZATIONS

Phi Delta Gamma is a national sorority for graduate women in all fields. Membership is by invitation. Phi Delta Kappa is a national fraternity for men who are graduate students in Education. Membership is by invitation.

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

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

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

PROCEDURES AND REGULATIONS

Admission and Transcripts

The student admitted to graduate study is advised to familiarize himself with the academic regulations of the University and the Graduate College, and the student is expected to assume full responsibility for knowing the particular requirements of his own academic program. The student is responsible for complying with all regulations of the University, the Graduate College, and the departments of instruction, and for meeting all requirements for his degree. The student should consult with his adviser whenever he has any question concerning the requirements for his degree.
New students should correspond with, or go directly to, the Director of Admissions in order to apply for admission. Each new student will be required to file with the Director of Admissions:

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

NOTE: For consideration for the Fall, Spring, Evening Summer, First Summer or Second Summer term, above credentials must be on file by July 15, December 15, April 15, May 15 or June 15 respectively. Those wanting to be considered for admission to the program in counseling and guidance should see page 59 for separate deadline dates.

Scores of the Graduate Record Examination should be filed in the Graduate Office.

Scores of the Graduate Record Examination or Admission Test for Graduate Study in Business should be filed in the Graduate Office.

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

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

Admission to the Graduate College does not admit the student to candidacy for any graduate degree. (See "Admission to Candidacy for Graduate Degrees.")

MATRICULATION FEE

A matriculation fee of $10 is payable upon initial enrollment in the Graduate College.

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 privileges including examinations connected with the course. An audit study may not change to credit registration after the first week of the course. (A credit student may change to audit registration during the first eight weeks of a semester, or during the first half of a class if it runs longer or shorter than a semester.)

CLASSIFICATION OF ADMISSION

Unconditional

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

Provisional

Provisional admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the undergraduate prerequisite course requirements for admission to the Graduate College. 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 upon approval by the Graduate Dean. This admission may be made for reasons of maturity, experience, or other extenuating circumstances under which the student may be deemed capable of high quality graduate study. This provisional admission will not be removed until the student has successfully demonstrated to the satisfaction of the Department and the Dean his ability to pursue graduate study.

Applicants to the Graduate College who have been graduated from unaccredited colleges may be admitted provisionally. Unconditional status may be attained upon completion of twelve semester hours of graduate courses with at least a B average. A student may not apply for admission to candidacy for any degree until he has met the requirements of unconditional admission.

Non Degree

Some students who do not anticipate pursuing a degree program may be admitted to graduate study. Credentials for admission include a completed application blank and two undergraduate transcripts. Credit hours accumulated in this category could be counted toward a degree only if (a) the transition from non degree status is accomplished no later than the first opportunity to file candidacy for degree, and (b) the petition for change is accompanied by a departmental recommendation that the specified credit hours count toward the degree. For students desiring to change prior to completion of nine credit hours, the Request to Change Graduate Degree Program form should be used; for those having completed nine hours the Application for Admission to Candidacy form should be used.

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

Seniors in this University needing not more than nine hours to complete the bachelor's degree and wishing to register for graduate credit may be granted provisional admission to the Graduate College subject to receiving their baccalaureates within the twelve-month period immediately following such registration. They must file application for admission to the Graduate College and, if admitted, will register on Graduate College Registration forms. Such registration may count as residence in the Graduate College.

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

Admission to Teacher Education Programs

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

REGISTRATION PROCEDURE

The student is to follow the usual procedure in registering for courses by filling out the proper class cards and other registration blanks and by paying fees at the Business Office. At each registration period the student must secure the signature of his major adviser (and of the Dean of the Graduate College if he is registering for more than twelve hours). Students must have been formally admitted to the Graduate College prior to their first registration.

Graduate students who are not working toward a degree are classified as non-degree students. This classification includes:
1. graduate students taking courses for teacher certification
2. graduate students taking courses for professional growth
3. graduate students taking courses for cultural advancement
4. graduate students taking courses for transfer to another institution.

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 the Graduate College. (See “Admission to Graduate College.”)

ADMINISTRATIVE CERTIFICATE

Students who are preparing to meet the requirements for an Administrative or Supervisory Certificate must submit to the Office of the Dean of the College at the time of application, the names of two persons who can vouch for their personal and professional qualifications as a prospective school administrator.

ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

Admission to the Graduate College does not admit the student to candidacy for any degree. It is the student's responsibility to make application for candidacy for the degree as soon as he can qualify for admission to candidacy. The qualifications are: (1) the scores on the Graduate Record Examination (or the Admission Test for Graduate Study in Business, if applicable) must be on file in the Graduate Office; (2) nine hours of graduate credit must have been completed at this University; and (3) a grade average of "B", with no grade lower than "C."

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

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

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

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.)

THESIS

Students electing to pursue the Option I degree program described on page 35 are required to prepare a thesis under the direction of the major adviser supported by a committee. The thesis provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Up to six hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his schedule during at least one semester. The thesis should be initiated at least eight months before the commencement in which the student plans to receive his degree.

Three typewritten copies of the thesis (two copies for the University Library and the student's personal copy), plus an additional copy if requested by the department, are required. The original must be a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 16-pound weight. Except for the original, the required number of additional copies may be reproduced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairman of the thesis committee. Either pica or elite type may be used in typing. It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate College Office. The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in final
form with the signatures of the committee members on the approval sheets of all copies no later than twelve working days prior to the conferral of the degree.

**Thesis Manual:** The responsibility for placing the thesis in final form rests with the student and his major adviser. All theses must be written in accordance with a standard thesis manual. The Graduate Faculty has approved an official manual for each department and the student will be advised by his major adviser of the standard form to be used.

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

**ORAL EXAMINATION ON THESIS**

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

Final comprehensive oral examinations are arranged by the department, and it is the student’s responsibility to deposit the proper number of copies of the corrected and approved thesis in the Graduate Office together with the signed approval sheets at least twelve working days prior to the conferral of the degree.

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

**FINAL COMPREHENSIVE EXAMINATION**

A final comprehensive examination is required of all candidates for the Master’s degree near the conclusion of their graduate study.* For those candidates not writing a thesis, the examination is a written one. For those candidates writing a thesis, the final comprehensive examination may either written or oral at the option of the department concerned. If written, it must be arranged at the convenience of the major adviser. If the comprehensive is to be oral, it should be arranged at the time of the oral examination over the thesis, at which time one-half of the examination may be devoted to the courses taken by the candidate and one-half to the thesis.

For the degree Master of Business Administration, the final comprehensive examination will be administered on dates corresponding to those for the M.S. degree.

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

*No comprehensive examination is required on one alternate program in English.

**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 concerned, a graduate student may apply to the Academic Standards and Curriculum Committee for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been recorded and is obsolete. A copy of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Graduate Dean.

**QUALITY OF WORK**

A “B” average must be maintained in all work taken as part of the requirements for the degree. A final grade of “C” in each of two courses in either the major or minor area WILL REQUIRE ACTION ON THE PART OF THE COGNIZANT GRADUATE PROGRAM COMMITTEE before the student is allowed to count further work toward the degree. A grade of “C” in each of three courses will result in AUTOMATIC dismissal from the degree program unless the student has a “B” average or higher.

A grade of “D” or below in either the major or minor area is considered a failing grade and the student receiving such a grade will AUTOMATICALLY be dropped from the degree program. The student thus dropped must secure the approval of the COGNIZANT GRADUATE PROGRAM COMMITTEE before it is allowed to take further work toward the degree. A grade of “C” in each of two courses will result in AUTOMATIC dismissal from the degree program unless the student has a “B” average or higher.

A student, upon consent of his adviser, may repeat a course in which he has previously received the grade of C, D, or F. Both grades will appear on the transcript but only the second grade will be counted in determining the grade point average.

**INC—The grade “I” is to be used by an instructor at the end of a term to designate incomplete work in a course. It should be used when a student, due to extenuating circumstances such as illness, military service, hardship, or death in the immediate family, is unable to complete the requirements of the course in the term in which it is registered for credit. Incompletes should only be given if the student has already substantially completed the major requirements of the course.**
Each instructor must judge each situation. The instructor must also indicate by a departmental record, with a copy to the student, how the Incomplete is to be removed, and if he is at the University at the time of the removal, supervise the makeup work and report the permanent grade.

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

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

CLASS ATTENDANCE

Students should recognize that many courses depend upon regular class attendance, not to the extent that students are graded solely upon that factor, but in the sense that interaction between student and instructor is a necessary learning procedure. In the case of absence, it is the student's responsibility to contact his instructor in order to make up any work missed. The Board of Regents in its policy statement on 'The Student in the Academic Community' has declared: 'The faculty determines the character of courses which includes content, instructional and grading procedures. Students shall be informed of these matters at the beginning of the course.

STUDY LOAD

An average study load for a full-time graduate student is twelve hours of course work. The minimum load required for classification as full-time graduate student is nine hours of work. Graduate assistants are considered full-time students if they carry a minimum of six hours of course work. Students carrying less than twelve hours may obtain a regular students activities card by paying the full-time fee of $30.00.

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 800V, 800U and 900 are open only to graduate students. A limited number of upper-division courses are available for graduate credit but the graduate student is expected to do a higher level of work than the undergraduate students.

RESIDENCE REQUIREMENTS

A minimum of 30 semester credit hours in residence (36 in case of the Master of Science in Education and the Master of Business Administration degrees), is required for granting of the Master's degree, except as provision is made for the transfer of credit. No credit will be allowed for correspondence work.

TRANSFER OF CREDIT

Students who have completed graduate courses at other approved graduate schools (including extension schools) may petition to transfer as many as six semester hours of credit on a thirty-six hour program, or nine semester hours of credit on a thirty-six hour program provided the courses are pertinent to the student's graduate program. Normally the total hours of transfer credit may not exceed the number stated.

Courses for which transfer is requested must not have been used to satisfy the requirements for any previously awarded degree. Grades in courses for transfer of credit must be the equivalent of “B” or higher. No transfer of credit can be made until the student has been admitted to candidacy for the degree. All work accepted for transfer of credit must have been taken within the six-year period allowed for the Master's degree. Petitions for transfer of credit are submitted by the student to his major adviser who forwards the petition with his recommendation to the Graduate Dean for his approval.

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

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 College office. Transfer of graduate credit from all schools in the University system will be accepted to the extent 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 grant 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 A COURSE OR FROM THE UNIVERSITY

A student who wishes to drop all classes and withdraw from the University proceeds as follows:

1. Obtain withdrawal slip from the Registrar's Office or his adviser.
2. Confer with his adviser and obtain his signature on the withdrawal card.
3. Confer with his Academic Dean and obtain his signature on the withdrawal card.
4. Report to the Office of the Dean of Student Personnel and turn in his activity and library cards.
5. Refunds will be based on the official schedule.

Drop.—When a student finds it necessary to drop a course, he should notify the Registrar and see his adviser immediately. If a student withdraws, his record will be marked “W” indicating that he withdrew.

A student may not drop a course with any grade other than “P” after the eighth week of the semester.

REQUIRED PROCEDURE FOR GRADUATE STUDENTS

1. File two original transcripts of undergraduate credits (and graduate, if any), an application for admission form (and the ATGSB scores if applicable) with the Director of Admissions. You will be notified by mail of your admission to the Graduate College.
2. Arrange to take the Graduate Record Examination in Room 213, Administration Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
3. Arrange your class schedule with your adviser and have him sign your registration slip.
4. Pay a $10 matriculation fee at the time of your initial enrollment in the Graduate College.
5. Apply for admission to candidacy for the degree in accord with the procedure described above.
6. Apply for the degree in the Office of the Registrar during the semester or session in which the degree is to be conferred. (See Calendar for exact date.)
7. Inform your adviser 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. 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.
10. Order the cap and gown from the Book Store.

**TUITION, FEES, DEPOSITS AND REFUNDS**

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

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves with the delayed billing option must familiarize themselves with the due dates, as publicized. Note! Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor will the late payment penalties. Students in need of financial aid must consult the Student Financial Aids Officer in Room Administration 240. 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 loans when due, may result in cancellation of registration, legal collection efforts, or both.

**Application Fee:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$10.00</td>
</tr>
<tr>
<td>Graduate College</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

**Graduate College Matriculation Fee:**

Payable upon enrollment in the Graduate College...

**Tuition, Undergraduate and Graduate:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident of Nebraska</td>
<td>$10.00</td>
</tr>
<tr>
<td>Non-resident</td>
<td>$17.00</td>
</tr>
<tr>
<td>Resident-credit hour</td>
<td>$10.00</td>
</tr>
<tr>
<td>Non-resident-credit</td>
<td>$17.00</td>
</tr>
<tr>
<td>Charges assessed for each hour enrolled. The Board of Regents has approved this tuition change to be effective the fall term 1972-73. Note: It is possible that the 1973 Legislature will recommend changes in the tuition rates. If the Board of Regents were to concur, these rates would change accordingly.</td>
<td></td>
</tr>
</tbody>
</table>
Late Fees and Penalties:

Deposit:
- Late Registration (day or evening classes)
- Late Examination (each course)
- Late Payment of Tuition Billing
- Reinstatement of Cancelled Registration
- Replacement of ID/Activity Card
- Change of Class Schedule (per change)

Refunds:
- Late Fees and Penalties
- Pre-registration deposit allows the student to register in advance for the next term, and will apply toward tuition for completed registration.
- The deposit for fall term will be refunded in full provided application for refund is processed before the first day of the published fall term for on-campus registration.

Testing Fees:
- Credit by examination—per course
- American College Testing (ACT) on scheduled dates
- ACT additional charge, if specially scheduled
- College Level Examination Program (CLEP)—at national rates

Credential Fee
- Preparation of credentials: $10.00

Vacancy Bulletin Fee & Postage Cost
- 1st class mailing: $1.00
- 2nd class mailing: $5.00

Vacancy Bulletin Fee & Postage Cost
- 1st class mailing: $12.50
- 2nd class mailing: $6.00

The pre-registration deposit allows the student to register in advance for the next term, and will apply toward tuition for completed registration.

Pre-registration—variable dependent on hours enrolled

The pre-registration deposit allows the student to register in advance for the next term, and will apply toward tuition for completed registration.

The deposit for fall term will be refunded in full provided application for refund is processed before the first day of the published fall term for on-campus registration.

General fees are charged to U.N.O. students for this service.

REFUND SCHEDULE

Refunds are computed from the date application is received by the Registrar, NOT from date of withdrawal from classes. Refund slips issued by the Registrar and given to students are void and not redeemable unless presented to the Cashier (Room Adm. 150) within 30 days after date of issue. See policy entitled “Withdrawal from Classes.”

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

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

REGULAR SEMESTER

Withdrawal before first official day of the semester: 100%
Withdrawal before 1st week elapsed: 75%
Withdrawal before 3 weeks elapsed: 30%
Withdrawal after 5 weeks elapsed: 0%

SUMMER SESSIONS (5 WEEK SESSION)

Withdrawal before first official day of each session: 100%
Withdrawal during 1st three days: 75%
Withdrawal during remainder of 1st week: 50%
Withdrawal during 2nd week: 0%
Specialist in Education Degree

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

COURSE DESCRIPTIONS

Key to Symbols:
I—offered in the first semester of each year
II—offered in the second semester of each year
S—offered in the summer session

Courses numbered 800V, 800U and 900 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 800L numbered courses. It is expected as a rule that graduate students enrolled in those courses numbered 800L-800M will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.

ART (ART)

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

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

Course Descriptions

811M Advanced Sculpture
PREREQ: Art 331 and permission
Advanced work in area of student's choice, with facilities for oxy-acetylene, arc welding, and general metal working.
3 hours

814M Advanced Painting
PREREQ: Art 331 and permission
Practical instruction in oil painting and related media. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art.
3 hours

815M Advanced Printmaking
Intaglio process stressing technical proficiency in the various media.
3 hours

821M Advanced Ceramics
PREREQ: Art 361 and permission
Advanced problems in the techniques of ceramics.
3 hours

831V Graduate Sculpture
PREREQ: Art 431 and permission
Advanced problems in a particular sculpture media.
3 hours

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

851V Graduate Printmaking
PREREQ: Art 481 and permission
Advanced problems in the printmaking area with particular attention to the intaglio technique.
3 hours

UNIVERSITY OF NEBRASKA AT OMAHA

BIOLOGY (BIOL)

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

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

Master of Arts

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

To enter the Master of Arts degree with a major in biology the candidate must present 30 hours of graduate work in biology to include three courses numbered 800V, 800U and 900 or the equivalent and satisfy the written comprehensive examination requirement. To enter the Master of Arts degree without a major in biology the candidate must present 30 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 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 Master of Science degree the candidate must present 36 hours of graduate work in biology to include at least 2 semesters of Biology 801V, 1 semester of Biology 802V, and other appropriate courses to be determined by the student and his faculty committee. The candidate must pass a final written comprehensive examination.

Course Descriptions

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

844L Morphology of Lower Plants
PREREQ: Biology 145
A lecture and laboratory course which covers the ecology, morphology, and evolutionary trends of algae, fungi, and bryophytes.
4 hours

853L Flora of the Great Plains
PREREQ: Biology 145
The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants, found in the Great Plains.
3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>854L</td>
<td>Morphology of Higher Plants</td>
<td>4 hours</td>
<td>PREREQ: Biology 145</td>
</tr>
<tr>
<td></td>
<td>A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>852L</td>
<td>Plant Anatomy</td>
<td>3 hours</td>
<td>PREREQ: Biology 145</td>
</tr>
<tr>
<td></td>
<td>A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants.</td>
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<tr>
<td>873L</td>
<td>Fauna of the Great Plains</td>
<td>3 hours</td>
<td>PREREQ: Biology 145, 175</td>
</tr>
<tr>
<td></td>
<td>A study 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.</td>
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</tr>
<tr>
<td>874L</td>
<td>Histology</td>
<td>4 hours</td>
<td>PREREQ: Biology 175, and a course in vertebrate anatomy, or permission of instructor</td>
</tr>
<tr>
<td></td>
<td>Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance.</td>
<td></td>
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</tr>
<tr>
<td>894L</td>
<td>Embryology</td>
<td>4 hours</td>
<td>PREREQ: Biology 175, and a course in vertebrate anatomy</td>
</tr>
<tr>
<td></td>
<td>An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gametogenesis through organogenesis.</td>
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</tr>
<tr>
<td>814M</td>
<td>Cellular Biology</td>
<td>4 hours</td>
<td>PREREQ: Biology 145 and 175, organic chemistry, or permission of the instructor</td>
</tr>
<tr>
<td></td>
<td>A study of the structure and function of plant and animal cells.</td>
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<td></td>
</tr>
<tr>
<td>816M</td>
<td>Limnology</td>
<td>4 hours</td>
<td>PREREQ: Biology 145, 175, and organic chemistry</td>
</tr>
<tr>
<td></td>
<td>A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a fresh water environment.</td>
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<td></td>
</tr>
<tr>
<td>823M</td>
<td>Organic Evolution</td>
<td>3 hours</td>
<td>PREREQ: Biology 214, Lecture and discussion only</td>
</tr>
<tr>
<td></td>
<td>A study of organic evolution in terms of evidence which support the theory and the mechanisms involved in the process.</td>
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<td></td>
</tr>
<tr>
<td>827M</td>
<td>Animal Behavior (same as Psychology 827M)</td>
<td>3 hours</td>
<td>PREREQ: Biology 175 and Psychology 101 or permission</td>
</tr>
<tr>
<td></td>
<td>Lecture only.</td>
<td></td>
<td>Behavior of diverse animals for the understanding of the relationship between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit.</td>
</tr>
<tr>
<td>831M</td>
<td>Bryology</td>
<td>3 hours</td>
<td>PREREQ: Biology 344 or permission of the instructor</td>
</tr>
<tr>
<td></td>
<td>A course in the identification, classification, ecology, and distribution of bryophytes.</td>
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<td></td>
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<tr>
<td>834M</td>
<td>Ichthyology</td>
<td>3 hours</td>
<td>PREREQ: Biology 175</td>
</tr>
<tr>
<td></td>
<td>A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American freshwater fishes.</td>
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</tr>
<tr>
<td>843M</td>
<td>Mycology</td>
<td>3 hours</td>
<td>PREREQ: Biology 145</td>
</tr>
<tr>
<td></td>
<td>A lecture and laboratory course in the collection, cultivation, identification and life cycle of fungi.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>844M</td>
<td>Plant Physiology</td>
<td>4 hours</td>
<td>PREREQ: Biology 145, organic chemistry, or permission of the instructor</td>
</tr>
<tr>
<td></td>
<td>A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism, and mineral nutrition.</td>
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<td></td>
</tr>
</tbody>
</table>
811V BIOS YSTEMATICS
PREREQ: Graduate standing in Biology and permission of the instructor
A study of principles and techniques in animal and plant biosystematics.
The course will focus on the subject of the species problem and upon
the experimental investigation of the problem. Readings, discussions,
laboratory, and a written report.
3 hours

822V BIOMORPHOLOGY
PREREQ: Graduate standing in Biology. Permission of the instructor.
A study of the morphology and anatomy of organisms in relation to
survival, circulation, response, excretion, and reproduction. Lecture, lab-
oratory, selected readings, and a written report.
3 hours

833V ADVANCED TOPICS IN GENERAL PHYSIOLOGY
PREREQ: Graduate standing in Biology and permission of instructor.
Studies in general physiology including such topics as photosynthesis,
hormonal regulation, regulation of metabolic pathways, temperature-
related phenomena, and cytokinetic physiology. Lecture, laboratory, and
written report.
3 hours

843V ENVIRONMENTAL PHYSIOLOGY
PREREQ: General physics, algebra, animal physiology, or permission of
instructor. Graduate
A detailed study of selected dynamic environmental factors and me-
chanisms of physiologic adaptation by organisms of various taxa.
3 hours

893 Thesis
Independent research project written under the supervision of a faculty
committee.
1-4 hours

BUSINESS ADMINISTRATION (BA)

Graduate Faculty Members:

Professors Robert W. Benecke, William M. Brown, Charles M. Bull,
James J. Conway, Franklin S. Forbes, George T. Harris (Chairman),
Wayne M. Higley, Jack A. Hill, William C. Hockett, John W. Lucas
(Emeritus), Joyce Minteer, Leonard Prestwich, William Rogers;

Associate Professors Youssef I. Kouatly, R. Wayne Wilson;

Assistant Professors Bruce A. Kirchhoff, Richard F. Ortman, Stephen
P. Robbins

The Master of Business Administration Degree

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

Courses in the program provide the students an understanding of the
principles of management, marketing and finance. The study of ac-
counting, computers, and statistics as tools for analysis of
business activities. At the same time the student becomes aware of
the societal, economic, legal, and political factors which influence
business decisions and develops an appreciation of the social responsi-
bilities of business.

Emphasis is placed on decision making and problem solving.

Foundation Core: A student should have completed basic courses in
the following areas before enrolling in certain courses required for the
graduate degree:

- Economics
- Accounting (2 courses)
- Marketing
- Management

Economics: Corporate Finance
Accounting (2 courses): Statistics
Marketing: Business Law, or
Management: Legal Environment of Business

811L Survey of Accounting
This course is for the graduate student who has not taken accounting
principles at the undergraduate level.
The uses of accounting for purposes of control and decisions by
managers, owners, creditors, and others.
3 hours

812L The Legal Environment of Business
Examination of the business institution as it exists within a legal system
shaped by societal elements.
3 hours
813L Business Finance 3 hours
PREREQ: ACC 201 and ACC 202 or BA 811L and Econ. 201 and Econ. 202 or Econ 800V.
The process of financing business from the viewpoint of management in planning, directing, evaluating, and taking remedial action in providing for the financial needs of the business firm.

814L Survey of Management 3 hours
PREREQ: Econ. 201 and 202 or Econ. 800V.
A comprehensive study of the management process with particular emphasis given to the production, human, and organizational problems of industrial operations.

815L Marketing Foundations 3 hours
PREREQ: Econ. 201 and Econ. 202 or Econ. 800V. No previous marketing principles. This course will provide the student with a sound understanding of marketing institutions, functions, economic role, and administration. It will prepare the student for advanced work in marketing policies and research.

816L Statistics for Business Decisions 3 hours
PREREQ: BA 312 or College Algebra
The study of quantitative techniques and models and their application in business decision making.

820V Quantitative Analysis 3 hours
PREREQ: BA 315 or BA 816L
The study of quantitative analysis and interpretation of quantitative business data: descriptive measures, statistical inference, correlation and time-series.

821V Business and Society 3 hours
PREREQ: BA 322 or BA 446 or BA 812L
The environment of business within the functional areas of business.

825V Business Information Systems 3 hours
PREREQ: BA 311 or equiv.
This course is intended to acquaint students in business with the development of computer-based decision systems and their application to business problems.

830V Business Conditions Analysis 3 hours
PREREQ: Econ 800V or Econ 202
This course is concerned with the measurement and evaluation of business conditions and the adaptation of business policies to changing business conditions. Emphasis is placed upon the practical application of the techniques of analysis to the current business situation.

835V Accounting for Management Control 3 hours
PREREQ: ACC 201 and ACC 202 or BA 811L
Emphasis on the maximum utilization of accounting information by management.

836V Accounting Theory 3 hours
PREREQ: BA 820V

837V Seminar in Accounting 3 hours
PREREQ: BA 820V or BA 821V
A study of problem areas which may be independent or interrelated in public, private, and governmental accounting.

838V The Environment of Management 3 hours
PREREQ: MGT 300 or BA 814L
A classical and behavioral study of the organizational environment in which decision-making occurs to accomplish the economic and efficient operation of organized endeavor.

839V Human Behavior in Organizations 3 hours
PREREQ: BA 839 or BA 814L
An inter-disciplinary study concerned with the problems of combining and utilizing human resources to satisfy the objectives of management and workers.

844V Seminar in Management 3 hours
PREREQ: BA 850V and BA 831V
A student participation course emphasizing current issues and problems of management theory and operation.

845V Marketing Policies 3 hours
PREREQ: MKT 331 or BA 815L
A marketing management approach to the determination of policies employed in solving problems in marketing.

846V Promotional Policies 3 hours
PREREQ: MKT 331 or BA 815L
Analysis of the methods and policies needed to develop and administer an effective promotional program.

847V Seminar in Marketing 3 hours
PREREQ: BA 860V
Exploration, study and critical analysis of contemporary marketing problems, trends, methods and approaches for seminar discussion and written report.

850V Financial Management 3 hours
PREREQ: FIN 325 or BA 813L
Examines the problems of managing the financial operations of an enterprise with emphasis on analysis and solution of long and short-term problems pertaining to policy decisions.

851V Security Analysis 3 hours
PREREQ: FIN 325 or BA 813L
A study in the techniques of the analysis of marketable securities. Statistical and financial ratio methods of analysis are examined as well as broader bases for appraisal of values of securities.

852V Seminar in Investment Management 3 hours
PREREQ: FIN 325 or BA 812L
The theory of investment management and its application in formulation of policies for different types of investors.

855V Seminar in Finance 3 hours
PREREQ: BA 850V
Selected topics from areas of business finance.

859V Independent Research 3 hours
Individual research in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours in three different fields.

CHEMISTRY (CHEM)

Graduate Faculty Members:
Professors C. Robert Keppel, Walter W. Linstromberg, D. N. Marquardt (Chairman), Paul J. Stageman; Associate Professor Roger Hoburg; Assistant Professors Ernest J. Kemnitz, Daniel Sullivan, Richard Gary Thurman, James K. Wood.

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

Course Descriptions

855L Physical Chemistry (I) 3 hours
PREREQ: Chemistry 225, 225L, 240, 260L; Physics 212; Math 198
A presentation of selected topics from the areas of quantum mechanics, classical thermodynamics, statistical mechanics.
**Physical Chemistry Laboratory**

**PREREQ:** Chemistry 206, 206L, 240, 240L; Physics 212; Math 196. Chemistry 335L should be taken concurrently with Chemistry 336.

**Physical Chemistry**

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

**Physical Chemistry Laboratory**

**PREREQ:** Chemistry 336L should be taken concurrently with Chemistry 336.

**Instrumental Analysis**

**PREREQ:** Chemistry 336 (may be taken concurrently). Instrumental methods of quantitative analysis. Normally taken concurrently with Chemistry 440L.

**Instrumental Analysis Laboratory**

**PREREQ:** Chemistry 440L (may be taken concurrently) Laboratory to accompany Chemistry 440L. Normally taken concurrently with Chemistry 440L.

**Advanced Organic Chemistry**

**PREREQ:** Chemistry 226, 336

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

**Advanced Inorganic Chemistry**

**PREREQ:** Chemistry 336 (may be taken concurrently). Theories of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and recent problems in inorganic chemistry.

**Advanced Inorganic Preparations**

**PREREQ:** Chemistry 450 (may be taken concurrently). Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques.

**Biochemistry**

**PREREQ:** Chemistry 226, 226L, and 336, 338L.

Chemistry and biochemistry of protein, carbohydrates and lipids. Enzymes and energetics. Biological oxidation. Not open to students with credits in 340 or 345. Chemistry 865M must be taken concurrently with Chemistry 865M.

**Biochemistry Laboratory**

**PREREQ:** Chemistry Laboratory for Chemistry 865M. Chemistry 865M and 865M Lab must be taken concurrently.

**Biochemistry**

**PREREQ:** Chemistry 865M, 865M Lab.

Continuation of Chemistry 865M. Chemistry 865M Lab must be taken concurrently with 865M.

**Biochemistry Laboratory**

**PREREQ:** Chemistry 865M, 865M Lab.

Biochemistry Laboratory for Chemistry 866M.

**Chemistry Problems**

**PREREQ:** Permission of instructor.

Independent student research.

**Research in Chemistry**

**PREREQ:** Permission of the instructor, graduate standing and an undergraduate chemistry major (not less than 32 hours). Provides the student with an opportunity for experience in the solving of an actual research problem in the field of chemistry.

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**CIVIL ENGINEERING (C.E.)**

**Graduate Faculty Members:**

Professors Joseph V. Benail, Richard E. Gibson, James Q. Hossack, Cheryl H. Frewett;

Associate Professors Harold L. Davis, Bert Denny, Lawrence E. Ehlers, William B. LeMar, M. N. Reddy, Willbur F. Rogers

**Master of Science**

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

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

**Foundation Courses:** Applicants for admission to the M.S. degree program with a major in Civil Engineering must have completed the following foundation courses with a satisfactory grade:

- Fluid Mechanics
- Soil Mechanics
- Structural Analysis (or Differential Equations)
- Engineering Systems Analysis

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

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

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

**Course Descriptions**

**Civil Engineering**

**Open Channel Flow**

**PREREQ:** Graduate standing and permission of instructor. Open channel flow; energy and momentum principles of flow; critical, uniform, and unsteady flow; flow resistance; uniform and irregular channels; channel controls and transitions.

**Hydrology**

**PREREQ:** GE 331

The hydrologic cycle, precipitation, infiltration and soil moisture, run-off, rainfall-runoff relationships, factors affecting the utilization and conservation of water resources.

**Ground Water Hydrology I**

**PREREQ:** GE 331

The occurrence, distribution, and movement of ground water; formulation and solution of differential equations pertaining to boundary conditions of steady and unsteady state.

**Construction Management**

**PREREQ:** Permission Estimating and bidding, scheduling (CPM, PERT), contracts, bonds and insurance cost control systems, equipment utilization, codes and zoning.
844M Structural Analysis III
PREREQ: CE 344
Analytical methods in the design of industrial buildings, tall buildings and space frames.
3 hours

850M Soil Mechanics II
PREREQ: CE 448 or equivalent
Complex problems in soil mechanics: the interrelationships of theory, sampling and testing; performance studies.
3 hours

853M Construction Cost and Controls
PREREQ: Permission
Construction estimating, accounting, cost control; construction scheduling, computer applications.
3 hours

857M Form Design and Steel Erection
PREREQ: CE 300
Design of concrete forms; design of temporary structures for steel erection.
2 hours

870M Prestressed Concrete
PREREQ: CE 300
Design of prestressed members, continuous beams, slabs, and circular prestressing. Load factors, ACI code.
3 hours

873M Matrix Methods of Structural Analysis
Computer applications for beams, frames, trusses, grids, and space forms using flexibility and stiffness methods.
3 hours

881M Plastic Analysis
3 hours

882M Plastic Analysis II
Design of braced bents and unbraced bents for gravity and combined loads. Design checks and secondary considerations. Multi-story frames.
3 hours

883M Urban Systems I
Graduate standing and permission of the instructor
Concepts of the urban complex as a system which involves interplay between engineering systems and physical works on one hand, and sociological and economic factors on the other; influence of related disciplines on comprehensive plans for urban systems; engineering inputs to urban planning; engineering role in preparation and implementation of comprehensive urban plans.
3 hours

890V Structural Design for Dynamic Loads
PREREQ: Graduate standing and permission
Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques.
3 hours

891V Special Engineering Problems
PREREQ: Graduate standing and permission
The theory and application of the accumulative knowledge from undergraduate and graduate course work to a special problem of particular interest to the student and his field of interest. These problems should extend the knowledge and understanding of the student in the field of his specialty beyond the limits of his formal course work. The problems will be agreed upon by the faculty member and the student involved. The problem will be at a level to warrant graduate credit.
1-6 hours

892V Thin Shell Structures
Graduate standing and permission
General theory of thin shells; analysis and design of hyperbolic paraboloids, folded plates, cylindrical shells, shell walls, and domes.
3 hours

893V Foundation Engineering
Graduate standing and permission of instructor
Evaluation of subsoil conditions as they affect the behavior, proportions, bearing capacity and settlement analysis; seepage problems; stability of and selection of foundation elements; character of natural soil deposits; slopes and earth-retaining structures.
3-6 hours

894V Bridge Design
PREREQ: CE 370, permission
The theory and design of slab, T-beam, box girder, prestressed, welded girder, composite, orthotropic and suspension bridges.
3 hours

895V Advanced Hydraulics
Graduate standing and permission
Advanced studies in hydraulics including hydrometry, similitude, urban hydrology, geohydrology, hydraulic transients, and loose boundary hydraulics.
3 hours

896V Advanced Structural Engineering
Graduate standing and permission
Contemporary developments in the analysis and design of space-spanning and space-enclosing structures, including appropriate mathematical and mechanical methods of analysis.
1-3 hours

897V Advanced Sanitary Engineering
Six hours of undergraduate-level courses in Sanitary Engineering
Advanced study of biological and chemical processes in sanitary engineering; activated sludge and trickling filter processes; anaerobic digestion; ion exchange and electrodialysis; wet and dry combustion; introduction to industrial waste treatment processes; and special problems in unit processes of waste treatment.
3 hours

895V Sedimentation and Erosion
Graduate standing and permission of instructor
A study of sediment movement in streams and channels. Transport of sediment on stream beds and by suspension; evaluation of total sediment load and application to canal design.
3 hours

891V River Mechanics
A study of river flow and river control; concepts in channel form, bed forms, riffles and bars; scour and fill; meanders; stream power; and channel stabilization structures.
3 hours

898V Civil Engineering Special Projects
Graduate standing and permission
Individual students may select a special semester project in some phase of civil engineering which requires advanced original thinking and the application of advanced analytical and/or experimental techniques in its completion.
1-6 hours

999 Graduate Research (Thesis)
Industrial Engineering
3-6 hours

990M Operation Research I
PREREQ: IE 350 or Math 353
Probability models; programming decision theory; queuing theory; optimal cost solutions.
3 hours

990M Operation Research II
PREREQ: IE 350
Queuing theory for infinite populations; optimum-cost queuing solutions; inventory theory and control; Markov chains; computer simulation of stochastic chains; integer programming; non-linear programming.
3 hours

992M Advanced Mechanics of Materials
Stresses and strains at a point; theories of failure; pressure vessels and spinning disks; torsion, bending and shear; elastic energy methods.
3 hours

993M Advanced Dynamics
Euler’s equations of motion, gyroscopic motion, theory of vibrations; Lagrange’s equation and Hamilton’s principle; motion of a variable mass; central force problems.
3 hours
48

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99LM Advanced Fluid Mechanics
PREREQ: GE 492 or permission; IDEAL and real fluid flow; Eulerian and Lagrangian equations of motion; potential theory; conformal transformations; turbulent flow; boundary layer theory.

895M Advanced Fluid Dynamics
PREREQ: GE 492 or permission; Investigation of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, laser, photo-elasticity and membrane analogs.

804V Applied Elasticity
PREREQ: GE 492, CE 412, Math 235; Stress, strain, Hooke’s law and displacements, formulation of problems in elasticity, various methods of solution of two and three dimensional problems, thermal stresses, comparison with approximate solutions.

812V Theory of Plates and Shells
PREREQ: Math 235; Plates: Governing equations for the bending and stretching of thin plates with small deformations, solution of rectangular and circular plates and plates of various shapes with different boundary conditions by means of classical, energy and numerical methods; large deflection theory of thin plates. Shells: Membrane theory of barrel shells, cones, translation units of double curvature; bending theory of domes, cylindrical shells; general theory of thin shells; analysis of thin, folded plates.

813V Theory of Elastic Stability
PREREQ: GE 492, Math 235; Beam columns, elastic buckling of bars and frames, inelastic buckling of bars, torsional buckling, lateral buckling of beams, buckling of rings, curved bars and arches.

811V Similitude
PREREQ: Permission; The principles and illustrations of dimensional methods, similarity and model testing, similar and dissimilar models. Applications to structures, fluid flow, heat transmission, electromagnetic theory, acoustics and chemical engineering, differential equations and similarity.

811V Engineering Vibrations
PREREQ: Math 235, Advanced Math for Engineers; Systems with One Degree of Freedom; Systems with Non-Linear and Variable Spring Characteristics; Systems with Several Degrees of Freedom; Vibrations of Elastic Bodies.

Other Engineering Courses

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

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

822M Contemporary Trends in Industrial Education for the World of Manufacturing
PREREQ: Graduate standing; 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.

ECONOMICS (ECON)

Graduate Faculty Members:
The Frederick W. Kayser Professor Elroy J. Steele (Chairman);
Associate Professors Donald A. Nielsen, Justin D. Stolen, Keith K. Turner;
Assistant Professors Loisjean Drake, James L. Joy, Robert McCune

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, 829V, and 845V.

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

Master of Science

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

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 36 hours must be approved at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V, and 845V.

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

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

Course Descriptions

800L Analytical Foundations of Economics (I, II) 3 hours; Fundamental principles of macro and micro economic theory for Graduate Students in Business. The development of modern aggregate theory is examined and an economic analysis of the business firm, its market structure, production possibilities, and cost factors undertaken.

811M Government and Labor
PREREQ: Econ. 215; Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

812M Urban Geography (Same as Geography 812M)

813M Geography of Manufacturing (same as Geo. 813M)

814M Collective Bargaining
PREREQ: Econ. 215; A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract.

821M Advanced Firm and Industry Theory
PREREQ: Econ 320; The effects of changes in conditions of supply and demand under alternative market structures affecting firm and industry are examined. General equilibrium and welfare economics are introduced.
103M Advanced Macroeconmic Theory
PREREQ: ECON 332
A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical developments, and various interpretations and forecasts are discussed. (3) 3 hours

103M Economic History
(Medieval through Classical Period) PREREQ: ECON 201, 202
Tracing the evolution of economic thought from the Middle Ages to the Classical period. Focus is on the interaction of institutional milieu, thought, and economic doctrine. (3) 3 hours

103M Economic History
(Neo-classical to Modern Period) PREREQ: ECON 201, 202
Tracing the evolution of economic thought from the Neo-classical to the contemporary period. Focus is on the interaction of institutional milieu, thought, and economic doctrine. (3) 3 hours

103M Economometrics
PREREQ: BA 313, ECON 201 and 202 or equivalent
Introduction to the study and application of modern statistical methods to economic models. (3) 3 hours

103M Comparative Economic Philosophy
PREREQ: ECON 320
The ideas of selected economic philosophers are examined in order to understand both the political basis of comparative economic systems and developments in thought and economic doctrine. (3) 3 hours

103M Contemporary Economic Philosophy
PREREQ: ECON 322
A continuation of ECON 316 with emphasis on contemporary philosophers. (3) 3 hours

103M Geography of Manufacturing (same as Geography 402M)
(3) 3 hours

103M Monetary Theory and Policy
PREREQ: ECON 345
The role of money in the stabilization of high levels, production, employment, income and prices. Emphasis on contemporary problems. (3) 3 hours

103M State and Local Finance
PREREQ: ECON 201 and 202
An examination of the basic principles, techniques, and theories of financial management in state and local government. (3) 3 hours

103M International Economic Development
PREREQ: ECON 201-202
Problems related to early stages of economic development, and issues affecting the investment priorities, mobilizing savings and policies and programs are studied. (3) 3 hours

103M Managerial Economics
PREREQ: ECON 320
Economics applied to business decisions with special emphasis on application of the micro theory. Emphasis is placed on the management of theoretical concepts, decision making, and comparison of alternatives. (3) 3 hours

103V Economic Education
PREREQ: ECON 103V
A study and an in-depth examination of selected economic topics and their relation to citizens, students, teachers, community and society. (3) 3 hours

103V Economic Education Institute
PREREQ: Permission of Director of the Institute
A study and an in-depth examination of selected economic topics and their relation to citizens, students, teachers, community and society. (S) 3 hours

110V Economic Security
PREREQ: Permission of Instructor
The analysis and discussion of problems and programs of economic security, emphasizing historical developments, present programs, possible future developments, and various interpretations and proposals. Special attention will be given, especially through student research, to programs aimed at reducing urban poverty. (1) 3 hours
881V Urban Seminar in Metropolitan Planning and Development 3 hours

883V Interdisciplinary Seminar on the Urban Community 3 hours per sem. to 6

884V PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences
An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus. (Also listed under Geography, Political Science and Sociology)

885V Seminar in Urban Economics (I, II) 3 hours

886V PREREQ: At least 6 hours of upper division course work in economics or permission of the instructor
An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems of a regional nature. In addition, policy alternatives, decision making, and measurement techniques are examined. (Also listed under Geography, and Sociology)

887V Seminar in Regional Economics (I, II) Each 3 hours

888V PREREQ: At least 6 hours of upper division course work in economics or permission of the instructor
An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems of a regional nature. In addition, policy alternatives, decision making, and measurement techniques are examined. (Also listed under Geography, and Sociology)

892V Independent Study (I, II, Each 1-3 hours)

893V PREREQ: Graduate student in economics and permission of instructor
Guided independent study and research under the supervision of the instructor

894V Urban-Regional Research (I, II, S) Each 3 hours

895V PREREQ: Permission of graduate adviser
For Master of Science Degree candidates in Economics only, in lieu of thesis. Consists of a study in Urban Economic problems, employing research techniques. Students do independent research consulting with adviser, and submitting completed reports to a departmental committee.

896V Thesis (I, II, S) 1-6 hours
PREREQ: Permission of graduate adviser
An independent research project, written under the supervision of a graduate adviser in the department of Economics. Approval of the topic and the completed project by the student's departmental committee is required.

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

911 Seminar in American Economic History Since 1865 (See History) (II) 3 hours

EDUCATIONAL FOUNDATIONS (FED)

Graduate Faculty Members:
G. Wayne Glidden (Chairman);
Professor Joseph G. Dunn;
Associate Professors Eugene Freund, Blaine Ward

Graduate courses in educational foundations are offered to fulfill requirements of departments offering graduate degrees in education or as cognate or selected courses on a plan of study.

Course Descriptions

610M Mental Health (I, II, S) 3 hours
A general survey of principles of mental health; a study of social and emotional adjustments.
Graduate Faculty Members:
Professors Robert L. Ackerman, (Chairman), Hollie Bethel, Helen Howell;
Assistant Professors Irene Hoover, Mary J. Lickteig

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
Students pursuing a Master of Science degree with a major in elementary education shall be expected to take selected courses in areas outside of the field of elementary education as indicated in the following program outline.

I. Required Courses
   6-9 hours

   FED 801V, Practicum Internship
   FED 802V, History and Philosophy of Education
   EED 804V, Diagnostic and Corrective Instruction
   EED 805V, Introduction to Curriculum Planning—Elementary
   EED 806V, Administration and Supervision in Elementary Schools

II. Selected Courses
To be determined by student and his adviser

Course Descriptions

120M Literature for Children and Youth
Selection, evaluation and guidance in various types of literature for the elementary and junior high school levels.

127M Current Trends in Early Childhood Education
A survey of the problems involved in setting up and implementing a program for the child from birth to eighth years of age. Recent trends will be investigated as they apply to the above activity.

199 Special Studies
A series of intensive courses especially for teachers in service—scheduled as regular seminars or workshops, according to purpose.

199V Research Project
Individual or group study and analysis of specific problems in schools.

199V Diagnostic and Corrective Instruction
A study of methods of diagnosing children’s difficulties in all subject areas of the educational program of the elementary school and corrective techniques for overcoming such problems.

120V Improvement of Instruction in Elementary Science
This course is designed for graduate students in education who wish to become better informed about the recently developed programs for elementary science; the methods, materials, philosophy, and emphasis in instruction, which are characteristic of these programs.

EEO 871V Advanced Placement in Elementary Education
A study of the history, philosophy and current developments in the elementary curriculum with emphasis on appropriate content and methods of curriculum reorganization.

EEO 872V Seminar in Elementary Education
A study of educational problems as they relate to the elementary school, to be taken in the last nine hours in the program for the Master of Science degree.

EEO 873V Seminar in Supervision of Student Teachers—Elementary
A study of the methods of supervising student teachers, and those interested in supervising teachers, and who desire to study student teaching, its aims, procedures, objectives, trends, and developments.

305V Practicum in Elementary Education
Prerequisite: Permission of adviser and of ad hoc committee for non-certificated
This practicum is designed for a selected group of graduate students who are participating in the graduate program in elementary education. Participants in the practicum will be students with baccalaureate degrees in fields other than elementary education. The six-hour practicum experience will consist of one semester of all-day teaching in an elementary school under the supervision of graduate faculty of the Department of Elementary Education. (Half-time teaching will grant 3 hours of credit.)

305V Advanced Practicum in Elementary Education
Prerequisite: Permission of adviser and of ad hoc committee for non-certificated students and satisfactory completion of EED 305V, Practicum in Elementary Education
Advanced practicum will demand increased responsibility of the student for one semester and a concomitant increase in variety of experiences, based on his individual needs. EED 305V is a continuation and refinement of the quality of teaching based upon his performance during his first practicum experience (EED 305V).

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

SECONDARY EDUCATION (SED)
Graduate Faculty Members:
Professors Paul Ackerman, Raymond A. Ziebarth (Chairman);
Associate Professors M. Jean Bressler, Barbara L. Brillhart, Dale M. Bunsen, Donald J. Grandgenett, Edward J. Sadler
Assistant Professor Michael J. Rockler

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

To pursue degree work in the Department, students must hold a valid secondary teaching certificate. During the first semester of enrollment, students must take the Graduate Record Examination including the Advanced Test in Education. To be admitted to candidacy the combined
scores on the Verbal, Quantitative, and Advanced GRE Tests must total at least 1200. Students are expected to file their Application for Candidacy before they complete more than 18 hours of graduate work and more than 18 hours of completed course work may be included in the proposed program of graduate studies.

Students who seek the Master of Science Degree must take a written Comprehensive Examination. This examination may not be taken earlier than the semester or summer session in which the last course of the program of studies will be completed. Registration for this examination must be made with the Department not later than the end of the eighth week of the semester in which the examination will be taken. If the examination is to be taken during the summer, registration must be completed by the end of the third week of the first summer session.

Master of Science

Students seeking the Master of Science Degree in Secondary Education are required to select course work from the 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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<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>I. SED Core</td>
<td>Min</td>
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<tr>
<td>SED 825V—Seminar in Secondary Education</td>
<td>6</td>
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<tr>
<td>SED 835V—Emerging School Curriculum</td>
<td>3</td>
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<tr>
<td>SED 833V—Analysis of Teacher Behavior</td>
<td>3</td>
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<td>II. Research</td>
<td>Min</td>
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<tr>
<td>Research Methods, Statistical Methods, Tests &amp; Measurements</td>
<td>3</td>
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<tr>
<td>III. Professional Specialization</td>
<td>Min</td>
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<tr>
<td>Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies</td>
<td>3</td>
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<tr>
<td>IV. Related Professional Courses</td>
<td>Min</td>
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<tr>
<td>V. Related Academic Courses</td>
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Master of Arts

Students seeking the Master of Arts Degree in Secondary Education are required to select course work from the 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.

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>I. SED Core</td>
<td>Min</td>
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<tr>
<td>SED 825V—Seminar in Secondary Education</td>
<td>6</td>
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<tr>
<td>SED 835V—Emerging School Curriculum</td>
<td>3</td>
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<tr>
<td>SED 833V—Analysis of Teacher Behavior</td>
<td>3</td>
</tr>
<tr>
<td>II. Research</td>
<td>Min</td>
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<td>Min</td>
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<td>V. Related Academic Courses</td>
<td>Min</td>
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*Minimums or maximums are determined by advisor.*
847V Materials Laboratory for the Social Studies
3 hours
Designed to acquaint social studies teachers with new materials in the Social Studies. Students will develop criteria for the evaluation of materials from recent curriculum projects.

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

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

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

856V Improvement of Instruction of Secondary School BSCS Biology (yellow)
3 hours
For students who wish to become better informed about the nature of recently developed programs in the various areas of the curriculum. Special attention is given to the methods, materials, philosophy and instructional emphases characteristic of these programs. Each offering will be devoted to a particular area as indicated when scheduled.

857V Improvement of Instruction of Secondary School BSCS Biology (green)
3 hours
For students who wish to become better informed about the nature of recently developed programs in the various areas of the curriculum. Special attention is given to the methods, materials, philosophy and instructional emphases characteristic of these programs. Each offering will be devoted to a particular area as indicated when scheduled.

860V Improvement of Instruction of Science, Harvard Project Physics
3 hours
A graduate course in science education which reviews the content, method, materials, and philosophical background of Harvard Project Physics.

862V Improvement of Instruction of Science, Earth Science Curriculum Project
3 hours
A graduate course in science education which reviews the content, method, materials and philosophical background of the Earth Science Curriculum Project.

865V Science Education Seminar
3 hours
A graduate seminar in K-12 science education emphasizing research, newly-developed science curricula, curriculum planning, science supervision, and treatment of one or more localized science education issues.

870V Improvement of Instruction in Science, Harvard Project Physics
3 hours
A continuation and extension of the concepts considered in SED 850V.

871V Improvement of Instruction in Science, Earth Science Curriculum Project
3 hours
A continuation and extension of the concepts considered in SED 865V.

875V Improvement of Instruction in Secondary School Business Education
3 hours
A course designed for teachers of business education to provide information, methods, and techniques relative to current practices and trends in business education.

876V Problems of Vocational Business Education
3 hours
(S) Required of all students taking Master of Arts degree, see major adviser for information.

903V Seminar in Applications of Non-Verbal Communication Theory
3 hours
PREREQ: Course in research methods or permission of instructor.

Theories and research on the development, facilitation and barriers of human non-verbal communication. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. (Crosslisted as Psychology 956 and Speech 955.) (B. Brillhart)

COUNSELING AND GUIDANCE (COUN)

Graduate Faculty Members:
Professors Richard Blake (Chairman), B. Gale Olson;
Associate Professors Harl Jarmin, Donald Pfasterer;
Assistant Professors Robert Butler, Scott Harrington, Ross A. Pilking

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

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

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

The Counseling and Guidance Department has admissions requirements and procedures in addition to those applicable to the Graduate College as a whole, and prospective students are strongly encouraged to contact the Department regarding these admissions requirements and procedures. One such exception from the general college procedures are the different admissions deadlines for Counseling and Guidance.

ADMISSION DATES

The last date for filing admissions credentials for admission to the Department of Counseling and Guidance is July 16 for the first semester of 1973-74, November 19 for the second semester of 1973-74, April 22 for the First Summer Session of 1974 and June 30 for the Second Summer Session.

Master of Arts

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

Master of Science

Specialization in Agency Counseling
I. Foundation Course
FED 801V, Introduction to Research

UNIVERSITY OF NEBRASKA AT OMAHA
III. Counseling and Guidance Courses 22-28 hours

Courses in this category provide a student with a broad and rigorous understanding of the concepts, skills, and techniques needed for effective counseling and guidance. Each course is designed to help students develop the knowledge and skills necessary to succeed in the counseling profession.

Specialization in School Counseling—Secondary Level*

I. Foundation Course
- FED 801V, Introduction to Research
  3 hours
II. Selected Cognate Courses
- These courses are selected in accordance with the student's area of interest.
- COUN 820V, Principles of Guidance and Counseling
- COUN 822V, Introduction to Counseling Theories
- COUN 824V, Counseling Practicum
- COUN 825V, Counseling Practicum
- COUN 826V, Community Involvement for Urban Counselors
- Selected additional courses in the department.

Specialization in School Counseling—Elementary Level*

I. Foundation Course
- FED 801V, Introduction to Research
- PSYCH 821V, Advanced Educational Psychology
- 6-12 hours
II. Selected Cognate Courses
- These courses are selected in accordance with the student's area of interest.
- COUN 820V, Principles of Guidance and Counseling
- COUN 822V, Introduction to Counseling Theories
- COUN 824V, Counseling Practicum
- COUN 825V, Counseling Practicum
- COUN 826V, Counseling Practicum
- COUN 827V, Counseling Elementary School Children
- Practicum or Internship
- 4-6 hours
- Selected additional courses in the department.

Specialization in College Student Personnel Services

I. Foundation Course
- FED 801V, Introduction to Research
- 3 hours
II. Selected Cognate Courses
- These courses are selected in accordance with the student's area of interest.
- FED 801V, Introduction to Research
- 6-15 hours
III. Counseling and Guidance Courses
- The pattern of coursework is individually designed to prepare the student for specific roles within the field of student personnel services, i.e., admissions and registrations, counseling, housing, financial aid, placement and student activities.
- COUN 890M, Guidance Skills for Secondary Teachers
- 3 hours
- PREREQ: Senior or Graduate
- Course designed to familiarize educators with guidance activities of schools, the counselor's role in these activities, and to develop appropriate guidance and listening skills. No credit for guidance majors.

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

Graduate Faculty Members:

Professors Donald Cushenberg, Aaron Armfield (Chairman), James M. Wood;

Associate Professors James Akers, Roger Harvey;

Assistant Professor Kathleen McKenney
Graduate Lecturers Craig Fullerton, Edward LaCrosse

Master of Arts

With A Major in Speech Pathology

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

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)
2. Have successfully completed a minimum of twenty-six semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents: SPED 341, Introduction to Communication Disorders; SPED 437, Basic Audiology; SPED 438, Auditory and Speech Mechanisms; SPED 442, Psychology of Speech; SPED 444, Speech Path II: Rhythm and Symbolization; SPED 443, Speech Path I: Voice and Articulation; SPED 445, Speech Reading and Auditory Training; SPED 446, Phonetics; SPED 450, Speech Correction in Elementary and Secondary Schools; SPED 475, Language Development of Exceptional Children.
3. For those students who wish to work toward special state certification in the schools, advisor consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
4. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:

   I. Required Courses
      FED 801V Introduction to Research
      SPED 833V Advanced Problems
      SPED 870V Seminar in Special Education
      SPED 840V Speech Evaluation
      SPED 846V Advanced Audiology
   II. Elective Courses
      Students may choose any of the courses in the area numbered 800V or above.
5. Thesis:
   Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of his committee.

   With a Major in Mental Retardation

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

1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Graduate Dean and the major adviser.
2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.
3. Students may undergo course work which will lead to:
   a. a major of 24 hours in mental retardation.
   b. a thesis not to exceed six semester hours.
   OR:
   a. a major of 15 semester hours in mental retardation.
   b. a minor of nine semester hours in a related field of interest.
   c. a thesis not to exceed six semester hours.
4. To be admitted as a candidate for the M.A. degree in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.

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

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

a. Required Courses:
   - FED 801V Introduction to Research
   - SPED 870V Seminar in Special Education
   - SPED 872U Practicum in Special Education
   - SPED 899 Thesis

b. Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.

Master of Science

Major in Reading

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

I. Core Professional Courses
   - 12-15 hours
   - including work in graduate reading courses (SPED 911, 912, 813V, 814V, or their equivalent).

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

III. Related Cognate Courses
   - 9-12 hours
   - including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II.

Major in Speech Pathology

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

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

2. Have successfully completed a minimum of thirty-two semester hours of 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 343, Speech Reading and Auditory Training
   - SPED 437, Basic Audiology
   - SPED 438, Auditory and Speech Mechanisms
   - SPED 442, Psychology of Speech
   - SPED 443, Speech Pathology I: Voice and Articulation
   - SPED 444, Speech Pathology II: Rhythm and Symbolization
   - SPED 445, Phonetics
   - SPED 450, Speech Correction in the Elementary and Secondary Schools
   - SPED 451, Basic Practicum Speech
   - 475, Language Development of Exceptional Children

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

4. Thirty-six hours of course work and practicum. These hours may be taken from the following:

   I. Required Courses
   - FED 801V, Introduction to Research
   - SPED 864V, Advanced Studies in Disorders of Articulation
   - SPED 843V, Advanced Studies in Disorders of Voice
   - SPED 844V, Advanced Studies in Disorders of Rhythm and Rhythm
   - SPED 845V, Advanced Studies in Disorders of Aphasia and Related Problems
   - SPED 846V, Speech Evaluation
   - SPED 847V, Neurophysiology
   - SPED 848V, Advanced Audiology
   - SPED 852V, Advanced Pracitum in Speech
   - SPED 855V, Advanced Practicum in Speech
   - SPED 858V, Advanced Problems

   II. Elective Courses
   - SPED 859V, Seminar in Special Education

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

   **I. Required Courses
   - FED 800M, History Education and Guidance of the Deaf
   - SPED 820M, Teaching Speech to the Deaf I
   - SPED 821M, Teaching Speech to the Deaf II
   - SPED 822M, Teaching Language to the Deaf I
   - SPED 823M, Teaching Language to the Deaf II
   - SPED 824M, Teaching Language to the Deaf III
   - SPED 825M, Teaching School Subjects to the Deaf I
   - SPED 826M, Teaching School Subjects to the Deaf II
   - SPED 827M, Basic Audiology
   - SPED 828M, Auditory and Speech Mechanisms
   - FED 801V, Introduction to Research
   - SPED 805V, Teaching the Exceptional Child
   - SPED 870V, Seminar in Special Education (or FED 911V, History and Philosophy of Education)
   - SPED 872V, Basic Observation and Student Teaching in Special Education
   - SPED 873V, Advanced Observation and Student Teaching in Special Education

   Major in Teaching the Deaf

The Master of Science degree with a major in mental retardation provides broad study investigations for students who wish to improve and expand competence areas necessary for greater 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:

* Student is responsible for prerequisites in any elective areas.

** Substitutions possible where student has taken equivalent courses on the undergraduate or graduate level.
1. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Graduate Dean and the Major Adviser.
2. Applicants should hold a valid certificate. Those not holding teaching certificates will be required to take preparatory courses in teacher education (the number of courses to be taken will be subject to a review of the applicant's transcripts and his/her related experiences in teaching children).
3. To be admitted as a candidate for an M.S. degree with a major in Special Education, the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.
4. Each candidate, having successfully completed thirty hours of course work and practiced, and enrolled for their last six hours, will be required to pass a final oral examination prior to his/her being recommended for the M.S. degree with a major in Mental Retardation.
5. Thirty-six hours of course work and practicum may be taken.

### Required Courses

- **FED 801V.** Introduction to Research
- **SPED 860M.** Introduction of the Mentally Subnormal Child
- **SPED 882M.** Emotional Development
- **SPED 886V.** Vocational Training
- **SPED 873V.** Advanced Observation and Student Teaching
- **SPED 875M.** Language Development of the Mentally Retarded
- **Psych 842M.** Teaching of Speech
- **Psych 840M.** Reading Diagnosis and Remediation for the Elementary Class Room Teacher
- **Psych 851V.** Advanced Educational Psychology
- **Psych 857V.** Behavior Modification
- **Psych 859M.** Developmental Psychology
- **Psych 861M.** Psychological and Educational Testing

### Electives

- **SPED 840M.** Learning Disabilities
- **SPED 850M.** Clinical Observation of the Multi-Handicapped
- **SPED 860M.** Learning Disabilities
- **Psych 851V.** Advanced Educational Psychology
- **Psych 857V.** Behavior Modification
- **Psych 859M.** Developmental Psychology
- **Psych 861M.** Psychological and Educational Testing

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**Course Description**

**811M Reading Diagnosis and Remediation for the Elementary Classroom Teacher**

- **PREREQ:** EED 429 or permission of instructor
- This course is designed for future elementary classroom teachers and graduate students who wish to develop a better understanding of reading problems, their assessment and remediation.

**820M History of Education and Guidance of the Deaf**

- **(I)** 2 hours
- History of trends in deaf education culminating in current practices and attitudes; survey of teaching and guidance opportunities; psychological problems of the deaf child.

**821M Teaching of Speech to the Deaf I**

- **(I)** 2 hours

**822M Teaching of Speech to the Deaf II**

- **(II)** 2 hours

**823M Language Development of Hearing Impaired Children**

- **(I)** 2 hours
- Development of functional language for the hearing impaired child; methods and materials for developing English language skills; beginning reading skills as related to the acquisition of language.

**824M Teaching of Language to the Deaf II**

- **(II)** 3 hours
- Continuation of Special Education 423 with further consideration of criteria for selection and utilization of teaching materials; special emphasis on language principles for the older deaf pupil.

**831M Speech Reading and Auditory Training**

- **(II)** 2 hours
- History of development of speech (lip) reading; methods and practices in teaching speech reading for various ages and degrees of hearing impairment.

**834M Teaching School Subjects to the Deaf I**

- **(I)** 2 hours
- Philosophy underlying formal education of the deaf; methods and special adaptations used in presenting school subjects; special emphasis on reading.

**835M Teaching School Subjects to the Deaf II**

- **(II)** 2 hours
- Consideration of problems in deaf education; special instructional techniques for junior and senior high school subjects.

**837M Basic Audiology**

- **(I, S)** 2 hours
- History of the field of audiology, types of hearing losses, basic audiometric assessment including the care history, tuning fork tests, and pure tone air and bone conduction testing. An overview of the field is given including some information on hearing conservation, medical referral, and remediation.

**838M Auditory and Speech Mechanisms**

- **(I, S)** 3 hours
- Basic structure and function of organs of hearing and speech.

**840M Learning Disabilities**

- **(II, S)** 3 hours
- Study of developmental patterns in speech and language; signs of delayed speech and language development; evaluation techniques for identification of problem; therapy techniques for habilitation and/or rehabilitation of children with deviant language development.

**842M Psychology of Speech**

- **(II)** 3 hours
- Psychological processes basic to speech, theories of language learning, speech perception, semantics; interrelationships between speech and language.
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842M Speech Pathology I: Voice and Articulation (1) 3 hours
Types and causes of voice and articulation disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with individual involvements.

844M Speech Pathology II: Rhythm and Symbolization (1) 3 hours
Types and causes of rhythm and language symbolization disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with stuttering, aphasia, and delayed language development.

845M Phonetics (1, S) 3 hours
Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech.

855M Introduction to International Phonetic Alphabet (1) 3 hours
Introduction to International Phonetic Alphabet.

857M Speech Correction in the Elementary and Secondary Schools (1) 3 hours
Speech correction programs as related to goals of public educational programs; role and responsibilities of the speech clinician; current practices in evaluation, case load selection and scheduling; special emphasis on methods and materials appropriate to a variety of facilities.

511M Basic Clinical Practice in Speech Pathology (1, II, S) 3 hours
Laboratory-oriented course for advanced students in speech pathology who will provide them with practical training in the use of proper rehabilitative techniques in order that they might qualify as speech specialists.

871V Reading Problems of the Handicapped (1) 3 hours
Investigation relating to causes of reading difficulties of the emotionally disturbed or handicapped, visually handicapped, or motivationally disadvantaged; methods and materials; demonstration of individual and group reading remediation procedures.

875M Language Development of Exceptional Children (1) 3 hours
A course designed to cover a brief history of linguistic science; an investigation of the language development of children; a discussion of the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children.

880M Emotional Development of Children and Youth (1, S) 3 hours
An introductory study of emotional maturation of children and youth with attention to the symptoms and causes of emotional deviation, and the means of improvement.

881M Classroom Techniques for Behavior Control (1) 3 hours
This course explores the various theories on behavior modification and discusses the application of those theories to the classroom. It is particularly appropriate for those teachers who teach a class for the emotionally disturbed or have a number of behavioral problems in their classes.

885M Introduction to the Education of the Physically Handicapped (1) 7 hours
Nature and educational needs of children and youth who are physically handicapped; definitions; prevalence and types of children in educational programs; history; trends.

886M Clinical Observation of the Multi-Handicapped (1) 3 hours
To familiarize students with the multi-disciplinary team approach to treatment of handicapped children in the clinical setting.

887V Special Projects in Speech Pathology (I, II, S) 1, 2 or 3 hours
A series of intensive courses especially for teachers in-service scheduled as regular seminars, workshops, according to purpose.

888V Teaching the Exceptional Child (I, II, S) 3 hours
A survey of the disorders of speech, hearing and language; normal developmental communication; the professions involved in the rehabilitation of the communicatively impaired individual.

890V Research Projects (1, II, S) 3 hours
Individual or group study and analysis of specific problems in schools.

891V Diagnostic and Remedial Instruction in Reading (1, II) 3 hours
A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities.

894V Measurement and Evaluation of Reading (1, II, S) 3 hours
A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a research center, i.e., initiating and keeping referrals, forming evaluation schedules, administering appropriate evaluative devices, writing case reports and establishing follow-up sessions.

895V Clinical Practice in Reading (1, II, S) 3 hours
A laboratory-oriented course for advanced students in reading which will provide them with practical training in the use of proper rehabilitative techniques in order that they might qualify as reading specialists.

896V Reading Problems of the Handicapped (3) 3 hours
Investigation relating to causes of reading difficulties of the culturally disadvantaged; methods and materials; demonstration of individual and group reading remediation procedures.

897V Advanced Studies in the Disorders of Speech Articulation (1) 3 hours
Types and causes of articulation disorders; rationale for case selection; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

898V Advanced Studies in the Disorders of Voice (1) 3 hours
Types and causes of voice disorders; rationale for case selection; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

899V Advanced Studies in the Disorders of Rate and Rhythm (1) 3 hours
Types and causes of rate, rhythm and stress pattern disorders; rationale for case selection; survey of stuttering theories and therapies; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

890V Advanced Studies in the Disorders of Aphasia and Related Problems (1) 3 hours
Types and causes of language symbolization disorders; rationale for case selection; childhood aphasia and autism; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

895V Current Practicum in Speech Pathology (1) 3 hours
This course provides for study and experience in speech therapeutic programming utilizing behavioral modification techniques based on Skinnerian-behaviorist principles. It includes a review of current literature and emphasis on articulatory and language remedial procedures.
845V Advanced Audiology (II) 3 hours
PREREQ: 447V and Graduate Standing
Audiologic assessment of hearing loss including case history, specialized audiometric tests, and counseling of clients, new and experimental procedures discussed; principles and procedures for selection and use of auditory amplification prostheses; industrial audiology and medicolegal problems discussed.

850V Basic Clinical Practicum in Speech Pathology (I, II, S) 3 hours
This course provides the student with an "externship" experience for clinical practicum in either a school or a medical setting. A minimum of 40 clock hours of work is required for each credit hour per semester.

851V Advanced Clinical Practicum in Speech Pathology (I, II, S) 3 hours
PREREQ: 441V
This course provides the student with an "externship" experience for clinical practicum in either a school or a medical setting. A minimum of 40 clock hours of work is required for each credit hour per semester.

852V Basic Clinical Practicum in Speech Pathology (I, II, S) 3 hours
This course provides the student with an "externship" experience for clinical practicum in either a school or a medical setting. A minimum of 40 clock hours of work is required for each credit hour per semester.

853V Advanced Clinical Practicum in Speech Pathology (I, II, S) 3 hours
PREREQ: 441V
The second semester of advanced clinical practicum. The student is placed in an "externship" setting with a cooperating master clinician. A minimum of 45 clock hours of work is required for each credit hour per semester.

854V Advanced Problems in Speech Pathology (II) 3 hours
PREREQ: Twenty-four hour Speech Pathology and Graduate Standing
Student selects and investigates three different areas of interest; oral motor problems, auditory processing, and the role of the speech pathologist in the development of speech therapy; with special emphasis on the. student's clinical performance; current research and controversy will be discussed.

855V Speech Problems of Cerebral Palsied Children (II) 3 hours
PREREQ: 447V
Identification of types of cerebral palsy by a location of lesion, motor symptomatology, and additional handicaps: the role of the speech pathologist in the development of speech therapy, with special emphasis on the Bobath approach; current research and controversial issues will be discussed.

860V Vocational Training of the Mentally Retarded (II) 3 hours
PREREQ: 447V
Consideration of the following aspects of treatment of the mentally retarded: vocational training and evaluation; on-the-job training; vocational placement, working with related disciplines, follow-up services, prototype work-study programs, the rationale of vocational adjustment programs, and the future of the mentally retarded in the world of work.

867V Community Services For the Mentally Retarded 3 hours
PREREQ: 447V
A second semester of classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.

871V Parent-Professional Relationships in Special Education (I, II, S) 3 hours
This course provides participation in various clinical or classroom situations of the student. 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.
890U Seminar in Organization and Administration of Reading Problems .......................... (I, II, S) 3 hours
PREREQ: One graduate Reading course, (or equivalent) and permission of instructor
Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and are professional workers who are charged with the total or partial responsibility for organizing and administering reading programs. Familiarity with the philosophy, organization, and major research related to different reading programs will be emphasized. Local and area reading authorities will conduct panels and lectures on topics chosen by the students. (Cushenbery)

918 Seminar in Research in Reading ................................................................. 3 hours
A course for advanced graduate and postgraduate students relating to in-depth studies of significant, recent research in reading with appropriate application for instructional procedures which may be undertaken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. (Cushenbery)

EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDAD)

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

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

Master of Science

Admission to the Program
1. Applicants must furnish all credentials requested in the standard application for admission to the Graduate College.
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.
Specialist in Education

This outline of program includes the work which might typically constitute the fifth and sixth years of collegiate work. The total coursework for both M.S. and Ed.S. would accumulate to not less than 66 graduate hours. The program reflects the philosophy which supports graduate education at the University that each student should be able to design a portion of his program to best harmonize his needs and ambitions. Each program will be designed with the aid of the student's adviser and must be approved by the candidate's committee.

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

Admission to the Program
1. Applicants must furnish all credentials requested in the standard application for admission to the Graduate College.
2. Applicants must hold a Master's degree from a regionally accredited institution. All graduate work taken by the applicant prior to admission to the program must have a grade point average of 3.25.
3. Applicants must hold full certification in educational administration and show evidence of having completed at least one year of successful practice as an educational administrator.
4. Applicants must have taken either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analog Test. Scores on the GRE must be at least 1200 and the score of the M.A. must be at the 30th percentile or better.
5. A recommendation for study for the Ed.S. degree must be made by the adviser. This recommendation must be made prior to a second registration. Usually, it will precede the initial registration.

Residency Requirement
Candidates are required to pursue a portion of their work in residence. It may be fulfilled in one of the following ways:
1. As a full-time student (12-hour load) during one semester of the academic year.
2. As a full-time student (12-hour load) during two consecutive summer terms of the same summer session.

Program Design
The program has been designed to include the flexibility needed by at least two groups of students: (1) those preparing to become school principals; (2) those preparing to become school superintendents. The capstones of this Ed. S. program are the administration seminars (Ed.Ad. 800U and 801U) and the field project (EdAd 811U).

1. Core Professional Courses
   Including work in school finance, school business management, supervision, school law, administration seminars, and field work.

   
   
   
   
   
   

II. Related Professional Courses
12-18 hours
Including selected work in such areas as curriculum, guidance, reading, foundations, and special education.

III. Related Cognate Courses
9-15 hours
Including selected work in such areas as economics, English, psychology, business administration, sociology, geography, history, speech, mathematics.

Procedures in the Program
Upon inquiry about the program in the Graduate Office, students are assigned an adviser by the Chairman of the Department. This adviser will conduct a screening interview, the results of which become a part of the student's permanent record. In questionable cases, the adviser may ask for the assistance of a committee.

Assuming a satisfactory interview, the student will be notified of acceptance, and his committee appointed by the Graduate Dean. The committee will examine the student's plans and preliminary coursework, at which time the student should apply for degree candidacy. Upon acceptance into candidacy, the tentative program shall become the permanent planned program.

Course Descriptions

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

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

825V Data Processing in Educational Administration 3 hours
A study of the role of electronic data processing and systems procedures in educational administration.

830V Seminar in Educational Administration 3 hours
A study of educational problems and their relationship to and implications for educational administration. (Course should be taken in last nine hours of the Master of Science Degree.)

835V Foundations of Educational Administration and Supervision 3 hours
A study of the nature and functioning of effective school organization and administration, including the inter-relationship between the federal, state, and local responsibilities.

840V Practicum in Educational Administration and Supervision 3 hours
PREREQ: Completion of 24 hours of Graduate study and approval of written application. Designed to provide guided study and practice in elementary, secondary or general administration and supervision as the interests and needs of the student require.

841V Administration and Supervision in Elementary Schools 3 hours
PREREQ: EDAD 840V
Continued study of Education 840V. Continued study and practice under guidance in elementary, secondary or general administration and supervision as the interests of the student requires.

846V Administration and Supervision in Elementary Schools 3 hours
PREREQ: EDAD 840V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

847V Administration and Supervision in Secondary Schools 3 hours
PREREQ: EDAD 840V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

848V Administration and Supervision in Junior High School 3 hours
PREREQ: EDAD 840V
This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.
994V Administration and Staff Personnel
PREREQ: FED 801V and EDAD 835V
This course deals with personnel policies, problems, and issues in the following areas: teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations and legal status. Emphasis will be placed upon the techniques of democratic administration.

971V Interpersonal Relationships in Educational Administration
This course is designed specifically with interpersonal and group relations. It should be useful to those administrators who recognize the need to increase their knowledge and skills in human relations.

890V Administration and Supervision of Vocational Education
Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor.

861V School Plant Planning and Operation
PREREQ: EDAD 860V
Designed to give the school administrator competence in organizing the maintenance and operation program of the school plant; includes long range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care.

965V School Business Management
PREREQ: FED 801V and EDAD 835V
An analysis of the functions of business management; budgetary procedures; financial accounting, auditing and reporting; management of funds, purchasing procedures and inventory; administration and protection of property; and administration of transportation.

880U Seminar in Research
890U Advanced Seminar in Educational Administration
3 hours
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.

555V School Business Management
PREREQ: FED 801V and EDAD 835V
The study of a problem in the area of school administration, and employs the techniques of research.

898V Organizational Theory and Practice
PREREQ: EDAD 860V
Designed to give the school administrator competence in organizing the maintenance and operation program of the school plant; includes long range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care.

455V Field Project in Educational Administration
PREREQ: Admission to Education Specialist Program and Approval, by Department Chairman
The study of a problem in the area of school administration, and employs the techniques of research.

994V School Law
PREREQ: FED 801V and EDAD 835V
Considers legal principles and practices which are applicable to public education for public school teachers and administrators. (O'Brien)
Course Description

800V Special Studies in Desegregation ............................................. 6 hours
An institute to deal with educational problems occasioned by desegregation and the need for multi-cultural education.

HEALTH, PHYSICAL EDUCATION, AND RECREATION
(HPER)

Graduate Faculty Members:
- Associate Professor Richard B. Flynn (Chairman)
- Assistant Professor John Raducha

Graduate courses in health, physical education, and recreation are offered to fulfill requirements for an area specialization or as cognate or selected courses on a plan of study.

Course Descriptions

824M Organization and Administration of Recreation .......................... 3 hours
PREREQ: At least 5 hours of upper division courses in recreation or permission to provide a background of information on community recreation with special attention to organization, promotion, and development of recreational programs.

833M Kinesiology ............................................................................... 3 hours
A study of the gross musculo-skeletal system and its function in human movement. Application of basic mechanical principles to human motion.

853M Measurement and Evaluation in Physical Education ................. 3 hours
Analysis of tests, measurement apparatus and testing procedures used in physical education, includes a study of basic statistics. Practical experience in test administration in the schools is provided.

864M Physiological Exercise .............................................................. 3 hours
The response of human systems to exercise and physical conditioning programs. Includes a study of the physiological basis of muscular strength, endurance, and cardiovascular stress; the effects of nutritive aids on physical performance; and physiological principles of conditioning and fitness programs.

800V Special Studies ........................................................................... (I, II, S) 1-3 hours
PREREQ: Permission of Department. A series of intensive courses—scheduled as regular seminars, or workshops, according to purpose.

810V Research Project ......................................................................... (I, II, S) 1-3 hours
PREREQ: Permission of Instructor. Individual or group study and analysis of specific problems in health, physical education or recreation.

822V Problems and Issues in Physical Education ............................... 3 hours
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.

826V Supervision of Physical Education ............................................ 3 hours
Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.

835V Curriculum in Physical Education .............................................. 3 hours
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 hours
Survey of research and literature in human movement for the purpose of orienting the student to possible areas of research and developing an understanding and appreciation of writings in the field.

827V Improvement of Instruction in Physical Education ...................... 3 hours
An examination and discussion of current programs, content, methods and materials within physical education. Emphasis is the improvement of each individual's teaching in the physical education setting.

840V Motor Learning and Performance ............................................. 3 hours
A study of conditions and factors which influence the learning and performance of motor skills with particular attention being given to those skills having relevance for the teacher of physical education.

844V Kinesiological Analysis of Motor Skills ..................................... 3 hours
An investigation of the biomechanical basis of motor performance. Includes a descriptive analysis of fundamental movement forms and an examination of techniques for collecting kinesiological data.

ENGLISH (ENG)

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

Master of Arts

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

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

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

Plan B: Successful completion of 36 credit hours in course work, including at least 18 hours in 800V- or 900-level courses; plus a written examination prepared and judged by a faculty committee.

The following English seminars in major periods vary in emphasis and may be repeated for an additional three hours of credit:

813M Contemporary French and German Novel.................................. 3 hours
PREREQ: Permission. Comparative study of selected contemporary French and German novels in translation. Cross-listed as French 815M and German 815M.

825M Sixteenth Century Literature ................................................... 3 hours
PREREQ: Graduate. Poetry and prose of the English Renaissance, from its continental origins to the end of the Elizabethan Age.

824M Chaucer ...................................................................................... 3 hours
PREREQ: Eng. 231. A study of the language and writing of Chaucer, with emphasis on The Canterbury Tales.

840M English Literature in the Age of Pope and Swift ...................... 3 hours
PREREQ: Graduate. A detailed study of selected authors and works of the Augustan Age of English Literature, with emphasis on Pope and Swift.

841M The Age of Johnson ................................................................ 3 hours
PREREQ: Graduate. Poetry, prose (exclusive of the novel) and drama of England during the second half of the eighteenth century.
840M Seventeenth Century Literature 3 hours
A study of the English poetry and prose of the seventeenth century to the Restoration with emphasis on Milton.

850M English Drama before 1642 3 hours
PREREQ: Engl. 231 or permission
A study of the development of the English drama, exclusive of Shakespeare, from its beginnings to 1642.

855M Structural Linguistics 3 hours
PREREQ: Graduate or permission
An analysis of the English language as it is spoken with the end view of gaining better understanding of the language and how to make it work most effectively.

855M The English Novel 3 hours
PREREQ: Graduate
The development of the English novel from the beginning to the end of the Victorian period.

911M History of the English Language 3 hours
PREREQ: Eng. 333 or permission
A study of the internal and external forces which have influenced the development of the English language.

917M Medieval English Literature 3 hours
PREREQ: Eng. 231 or permission
A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.

911M Literature of the Romantic Period 3 hours
PREREQ: Graduate
Poetry and prose (excluding the novel) of England from 1780 to 1815.

912M Literature of the Victorian Period 3 hours
PREREQ: Graduate
Poetry and prose (excluding the novel) of England from 1830 to 1890.

915M Contemporary Literature: Major Figures & Movements 3 hours
PREREQ: Graduate
A critical study of selected major literary figures or major literary movements which have appeared since World War II.

917M The American Novel 3 hours
PREREQ: Graduate
The major American novelists from Hawthorne to the present.

918M The American Drama 3 hours
PREREQ: Graduate
A survey of the history of the drama and theatre in the United States, especially as related to the main currents of American thought.

919V Seminar: Introduction to Literary Research 3 hours
PREREQ: Graduate
A survey of the techniques of literary research, history and interpretation, with a primary emphasis on methods of scholarship currently useful to the study of English and American literature.

919V Seminar: Literary Criticism 3 hours
PREREQ: Graduate
Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century England, and eighteenth century America.

920V Seminar in American Literature 3 hours
PREREQ: Graduate
An analytical study of the major literary movements in nineteenth and twentieth century America as they are expressed in poetry, fiction, drama and criticism.

920V Seminar, The English Renaissance 3 hours
PREREQ: Graduate or permission
A seminar in a few significant literary figures of the English Renaissance.

920V Seminar: The Restoration and Early 18th Century 3 hours
PREREQ: Graduate
A detailed study of selected authors and works of the Augustan Age of English literature (1660-1750).
**810M Contemporary French and German Novel**

PREREQ: Permission
Comparative study of selected contemporary French and German novels.
Cross-listed as German 816M and English 815M.

**821M Sixteenth Century French Literature**

PREREQ: Any 300 course in French literature or permission of instructor
Survey of the literature of the Renaissance, Babelais, Ronsard, Montaigne.

**831M Seventeenth Century French Literature**

PREREQ: Any 300 course in French literature
The Classical School Descartes, Pascal, Corneille, Moliere, Racine. La Fontaine.

**851M Sixteenth Century French Literature**

PREREQ: For either 851M or 852M, any French 300 course in literature or permission of instructor
851M: Main currents of sixteenth century literature from the beginning to 1530. 852M: Continuation to current literary production.

**880M Pro-Seminar**

PREREQ: Permission of instructor
A detailed study of narrower phases of French literature, language or culture.

**890M Independent Study**

(I, II) 1-3 hours
PREREQ: Permission of the instructor
Guided independent study and research under tutorial supervision.

**905M Introduction to the Study of Language**

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

**915M Contemporary French and German Novel**

(I) 3 hours
PREREQ: Permission
Comparative study of selected contemporary French and German novels.
Cross-listed as French 815M and English 815M.

**931M German Literature of the Nineteenth Century**

(I) 3 hours
PREREQ: German 303
The dramatic, epic and lyric works of nineteenth century German literature.

**932M German Literature of the Twentieth Century**

(I) 3 hours
PREREQ: German 303
The principal dramatic, epic and lyric works of the twentieth century German literature.

**939M German Novel**

PREREQ: German 303 or permission
Survey of the German novel from its beginning to the twentieth century.

**940M German Novelle**

PREREQ: German 303 or permission
Survey of the German short story, its historical origin, characteristics.

**944M German Drama**

PREREQ: German 303 or permission
Study of several of the better-known dramas, history of drama development in Germany.

**945M German Literature of the Seventeenth Century**

PREREQ: German 303 or permission of instructor
The principal dramatic epic and lyric works of seventeenth century German literature.

**955M German Literature of the Eighteenth Century**

PREREQ: Permission of instructor
A study of representative authors of the Enlightenment, Storm and Stress, and German Classicism: Lessing, Herder, Schiller, and Goethe.

**865M Bibliography and Methodology**

PREREQ: Permission of instructor
An introduction to the basic bibliography and methodology of German literature and language.

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**660M Pro-Seminar in German Literature**

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

**655M Introduction to the Study of Language**

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

**655L Modern Drama of Spain**

PREREQ: Span. 318 or permission
Ideological, technical, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries.

**656L Modern Novel of Spain**

PREREQ: Span. 318 or permission
Analytical study of the representative Spanish novelists of the nineteenth and twentieth centuries from P. A. de Alarcon to Cela.

**660M Independent Study**

(I, II) 1-3 hours
PREREQ: Permission of the instructor
Guided independent study and research under tutorial supervision.

**610M Theater of the Golden Age**

(I) 3 hours
PREREQ: 317 or permission of instructor
Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina and Calderon de la Barca.

**611M Novel of the Golden Age**

PREREQ: 317 or permission of instructor
Study of the prose masterpieces of the sixteenth and seventeenth centuries, including such works as Lazarillo de Torroes, La Celestina, and Don Quijote.

**616M Spanish American Literature of the 20th Century**

PREREQ: Span. 322 or permission
Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from Modernism to the present.

**620M Spanish American Novel**

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

**624M Generation of 1898**

PREREQ: Span. 318 or permission
Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.

**655M Spanish American Short Story**

PREREQ: Span. 321 and 322 or permission of instructor
Representative stories of the nineteenth and twentieth centuries from Romanticism to current production.

**600M Pro-Seminar**

PREREQ: Permission of instructor
A detailed study of narrower phases of Spanish or Spanish American literature, language or culture.

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**GEOGRAPHY AND GEOLOGY (GEOG-GEOL)**

Graduate Faculty Members:

Professors Nicholas Bariss, Harold J. Retallick, Gordon B. Schilz (Chairman), Philip E. Vogel;
Associate Professor John F. Shroder, Jr.

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 for areas other than physical geography, whereas the Master of Science with a major in geography is intended for students electing to do major work in physical geography. Each degree has two options. Option I should be chosen by those preparing for careers in research and scholarly work or in college or university teaching. The option requires a minimum of 24 semester hours in geography courses numbered 800M-800V and 900, and thesis 6 hours. Permission is required for a student to take more than two 800M level courses to apply towards the degree. Option II may be chosen upon the advice and with the approval of the major adviser. This option requires a minimum of 36 semester hours in geography courses numbered 800M or 800V-900, or selected graduate courses in other departments. No thesis is required for this option. Permission is required for a student to take more than two 800M level courses to apply towards the degree. Students who have taken the degree under Option II and later elected to continue in graduate work for the Ph.D., will not be encouraged by the department to continue unless evidence of ability to carry on independent research is presented.

Course Descriptions

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

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

812M Urban Geography (Same as Econ. 812M and Soc. 812M and Hist. 843M) 3 hours
A study of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.

823M American Urban History to 1870 (Same as Hist. 823M) 3 hours
PREREQ: Permission
Historical survey of urban development in the United States from the colonial period through the 1860's: urban society, problems, institutions; role of cities in national history; American ambivalence toward cities.

844M American Urban History Since 1870 (Same as Hist. 844M) 3 hours
PREREQ: Permission
American urbanization from 1870's to the present: influence of technology, transportation, industry, immigration, urban politics and reform movements; emergence of metropolitan America and problems of the contemporary super city.

853M Historical Geography of the United States (Same as Hist. 853M) 3 hours
PREREQ: Hist. 111 and 112
A course dealing with the geography of the past. Emphasis is placed on the sequent occupation of regions in the United States or the geography of major divisions of the United States at selected times in the past.

860M Independent Regional Research (May be repeated to a maximum of 3 hours) 1, 2, or 3 hours
PREREQ: Permission of Department Chairman
Advanced study in the form of a major paper to give the senior or graduate student knowledge of and experience in using government documents, professional and primary materials, concerned with a region. Must be under the supervision of the instructor who is particularly qualified for the continent chosen. Paper will be presented to the graduate General Seminar or the local chapter of CPU, National Honorary Geography Fraternity.

855M Urbanization in Developing Areas 3 hours
PREREQ: 6 hours of Geog. and Urban Geog. 812M
The functions and morphology of various types of cities found in presently developing areas of the world. Emphasis will be upon contrasting the cities of the developed and developing areas.

861V Geography Concepts: History and Philosophy 3 hours
PREREQ: Permission
Introduction to History of Geography. Emphasis on significant ideas, concepts, methodologies, and philosophies in geography from the classical Greeks to present.

862V Geography Concepts: Quantitative Methods 3 hours
PREREQ: Permission
The understanding and appreciation of quantitative techniques in geography. Emphasis is placed on sampling theory and design, graph theory and spatial statistics.

863V Seminar in Educational Geography 3 hours
PREREQ: Permission
A survey of methods, instruction aids and goals for teaching geography. Designed to add the teacher in the improvement of geographic instruction in the elementary and secondary schools as well as in higher education.

861V Cultural Geography 3 hours
PREREQ: Permission
The philosophical basis of human and cultural geography; interpretation of the cultural landscape.

861V Geography of Agriculture 3 hours
PREREQ: Permission and Geog. 313 or Econ. 313
A systematic study of the characteristics of agriculture on a world-wide basis.

861V Advanced Geomorphology 3 hours
PREREQ: Geog. 396, 117, or 107. Permission
A seminar and lecture course on the current concepts and controversies in the field of landform studies. Discussion will emphasize classic ideas as well as the modern concepts of climatic, dynamic, and quantitative geomorphology. Some study of Quaternary chronology will be necessary. Several optional Saturday field trips.
GRADUATE BULLETIN

PHYSIOGRAPHY OF NORTH AMERICA
PREREQ: Geog. 107 (104), or 117, or 118
3 hours
A study of the landforms regions of North America as related to the
whole study of geography by means of a systematic analysis of geo-
morphic patterns.

SOILS
PREREQ: Geog. 106 or 107 (104)
3 hours
An examination of the older geographical concepts of the distribution
and morphology of soil and the new works concerned with soil forms on
a regional, rather than zonal, basis.

FIELD GEOGRAPHY
PREREQ: Permission
3 hours
A systematic discussion of techniques for studying and analyzing ter-
rain features, land use characteristics, and the nature of their patterns
as a part of the whole geographic environment.

LAND USE
PREREQ: Geog. 812M. Permission
3 hours
A field course designed to understand, by actual field investigation, land
use patterns in urban areas through the comprehension of social, phys-
ical, and economic factors which tend to shape the land use of a given
place. The major emphasis will be placed upon field investigations in
the urban area, with the functional region receiving the major con-
sideration.

CARTOGRAPHIC METHODS
PREREQ: Geog. 353. Permission
3 hours
Teaches the student proper use of drawing instruments, effective map
layout and exposure to the latest cartographic techniques, leading to a
high level of competence in the design and interpretation of maps.

POPULATION SEMINAR
PREREQ: Permission
3 hours
The significance of differences from place to place in the number, kind,
and quality of human inhabitants and changes through time.

INDEPENDENT STUDY IN TOPICS ON URBANISM
PREREQ: Undergraduate major in one of the social sciences plus six
hours of graduate work in one of the social sciences
1 hour per semester to 3
(Also listed under Economics, Political Science, and Sociology.)

URBAN SEMINAR IN METROPOLITAN PLANNING AND DEVELOPMENT
(Same as Pol. Sci. 88IV)
PREREQ: Geog. 812M or recommendation from Political Science, So-
ciogy, or Economics Department
3 hours
An overview of the present status of planning in metropolitan areas with
special emphasis on the structure of planning departments, comprehensive
plans, and problems of annexation.

INTERDISCIPLINARY SEMINAR ON THE URBAN COMMUNITY
PREREQ: Undergraduate major in one of the social sciences plus 6
hours of graduate work in one of the social sciences.
2 to 5 hours
An interdisciplinary course on the metropolitan community in which
various departmental and college offerings concerned with urban prob-
lems are put in broad interrelated focus.
(Also listed under Economics, Political Science, and Sociology)

SEMINAR IN URBAN ECONOMICS
(Same as Economics 887V-88V)
Each 3 hours
PREREQ: At least 6 hours of upper division course work in economics,
or permission
An examination of the theoretical basis for the analysis of urban economic
problems with emphasis upon the policy alternatives available toward
their possible solution. Separate credit may be received for each course.

SEMINAR IN REGIONAL ECONOMICS
(Same as Economics 887V-88V)
Each 3 hours
PREREQ: At least 6 hours of upper division course work in economics,
or permission
An examination of the current developments and issues involving re-
gional economic development and planning. These courses provide the
theoretical basis for understanding and analyzing economic problems of
a regional nature. In addition, policy alternatives, decision making, and
measurement techniques are examined.

URBAN REGIONAL RESEARCH
(Same as Econ. 887V-88V)
1 to 6 hours
PREREQ: Graduate enrollment in the Master of Science in Economics
program and acceptance by a graduate adviser
Used in candidates for the Master of Science Degree in economics in lieu
of a Master's thesis. A study consisting of urban economic problems,
employing research techniques. Students do independent research, con-
sulting with adviser, and submitting completed report to a departmental
committee.

THESIS
3 to 6 hours
Independent research project written under the supervision of an ad-
dvisor.

SEMINAR IN PROBLEMS OF POLITICAL GEOGRAPHY
PREREQ: Permission, and Geog. 353
3 hours
Case studies in land boundaries, territorial waters, and in population
aspects of boundary problems. A review of important studies in Political
Geography.

SEMINAR IN REGIONAL GEOGRAPHY
(3-6 credits, maximum 3 per semester, except foreign country field work.)
Professor Gordon B. Schilz

GENERAL SEMINAR (required, no credit)
Professor Gordon B. Schilz

HISTORY (HIST)

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

Master of Arts

Admission to M.A. Program
1. To be admitted unconditionally a student must present 21 (twenty-
one) hours of undergraduate preparation in History with at least
a 3.00 average in those hours; further, to be admitted uncondi-
tionally, the student must have achieved a grade average of 2.75
in his overall undergraduate work and must follow all other
admission requirements of the Graduate College.
2. Students may be admitted provisionally who have less than 21
(twenty-one) hours of undergraduate preparation, or who have
achieved a grade average of 2.75. 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 selected and approved graduate course work in History, in which 15 semester hours will be in either (a) American History or (b) non-American History. The remaining nine selected and approved hours will be in graduate course work in History in the other of the two broad areas indicated.

II. A major of 15 semester hours of selected and approved graduate course work in History, plus an additional nine semester hours in approved graduate course work in a related field of study.

In either program of study a thesis, not to exceed six semester hour in independent study, is required under the direction of the major advisor.

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 given 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 another field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be gained by the adviser's permission, and the approval of the Graduate Program Committee.

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

5. When the student initially enrolls, he shall, in conference with the chairman of the Graduate Program Committee of the Department of History, choose his adviser. The chairman of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the Graduate Dean for official appointment. The advisory committee shall be composed of members of the Faculty appropriate to the student's program and academic interests. The chairman of the advisory committee (and the representative of the minor field, if such field is selected) must be members of the Graduate Faculty.

6. Early in the semester the student expects to receive the Master of Arts degree, he shall take a written comprehensive examination in both history and the minor field if a minor is selected. Each section of the examination will be read by at least two members of the Graduate Faculty with competence in the areas over which the student is examined. All readers of each section must agree that the student has passed that section.

7. In the event of failure on any one or more portion of portions of the comprehensive examination, the student must present himself/herself for re-examination in that area within one calendar year, and in no instance may the re-examination be scheduled earlier than four months after the original examination.

8. The student's adviser shall inform the chairman of the department(s) concerned, and the Graduate Dean, of the results of the comprehensive examination.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>801M</td>
<td>History of Science to 1700</td>
<td>(I) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>802M</td>
<td>History of Science since 1700</td>
<td>(II) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>803M</td>
<td>History of the United States History</td>
<td>3</td>
<td>Graduate standing</td>
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<tr>
<td>804M</td>
<td>History of the United States History</td>
<td>3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>805M</td>
<td>History of Women in the United States</td>
<td>3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>810M</td>
<td>Historical Geography of the United States (same as Geog. 833M)</td>
<td>3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>811M</td>
<td>American Social and Intellectual History to 1865</td>
<td>3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>812M</td>
<td>American Social and Intellectual History since 1865</td>
<td>3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>813M</td>
<td>The Revolutionary Era, 1763-1789</td>
<td>(I) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>814M</td>
<td>Early Federal Period, 1789-1815</td>
<td>(II) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>815M</td>
<td>The Jacksonian Era</td>
<td>(I) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>816M</td>
<td>Civil War and Reconstruction</td>
<td>(II) 3</td>
<td>Graduate standing</td>
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<tr>
<td>817M</td>
<td>The Emergence of Modern America: 1877-1901</td>
<td>3</td>
<td>Graduate standing</td>
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<tr>
<td>818M</td>
<td>Twentieth Century America to 1932</td>
<td>(I) 3</td>
<td>Graduate standing</td>
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<tr>
<td>820M</td>
<td>Twentieth Century America, 1932 to Present</td>
<td>(II) 3</td>
<td>Graduate standing</td>
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<tr>
<td>821M</td>
<td>Ideas in Twentieth Century America</td>
<td>(II) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>822M</td>
<td>American Constitutional History to 1865</td>
<td>(I) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>823M</td>
<td>American Constitutional History Since 1865</td>
<td>(II) 3</td>
<td>Graduate standing</td>
</tr>
<tr>
<td>824M</td>
<td>Great Plains and Nebraska (same as Geog. 823M)</td>
<td>3</td>
<td>Graduate standing</td>
</tr>
</tbody>
</table>
THE GRADUATE BULLETIN

UNIVERSITY OF NEBRASKA AT OMAHA

929 Thesis (I, II, S) 1-5 hours
Thesis research project written under the supervision of an adviser.

The following seminars lay stress on individual research on significant problems. Seminar topics for History 810V (History 910), History 851V, and History 983 will be stated in sub-titles published in the Graduate Class Schedule. An introduction to bibliography and demonstration of the methods of historical research will be incorporated in each seminar.

PREREQ: Graduate standing and permission of instructor each 3 hours

810V (910) Seminar in American History. This seminar will be offered at the 900-level when taught by a member of the University of Nebraska system graduate faculty (J. A. Carrigan, H. A. Dalstrom, W. R. Petrowski, W. C. Pratt, and R. M. Robbins).

851V Seminar in European History

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

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

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

MATHEMATICS (MATH)

Graduate Faculty Members:
Professor Paul A. Haeder (Chairman);
Associate Professors Barbara E. Buchalter, J. Scott Downing, Joseph A. Freivald, Margaret Gessaman, John P. Maloney, Keith P. Smith;
Assistant Professor George F. Haddix

Admission Requirements: An applicant is usually expected to have completed 15 acceptable credits in undergraduate mathematics beyond calculus, and to have an overall average of B or better during the last two undergraduate years.

Master of Arts
To complete the Master of Arts degree with a major in mathematics, the student must present thirty hours of work in mathematics and complete a thesis for which up to six credit hours may be applied toward the thirty hours. He must include mathematics course 811M, 812M, 823M, 824M, and 827M in his program if he has not had the equivalent courses as an undergraduate. All courses must carry a number of 800M or above and at least 18 hours must carry a number of 800V or above. Mathematics courses 923, 924, and 862V are required in the program.

Master of Science
The course requirements may be met by completing thirty-six semester hours of work, at least twenty-four of which must be in mathematics. At least eighteen semester hours of work in mathematics must be in courses numbered 800V or above. Courses in mathematics 811M, 812M, 823M, 824M, and 827M must be completed if not taken prior to entering graduate school. Math 923-924 and Math 862V are required. The student must pass a final written comprehensive examination.

Course Descriptions
The 800L courses listed are open for graduate credit to students who do not seek an advanced degree in mathematics.
### Computer Sciences

830L Numerical Methods
PREREQ: Math 196, 211 and a computer language.
Solution of equations, polynomial approximation, difference calculus, interpolation, quadrature, initial value problems from ordinary differential equations and matrix inversion.

832L Data Structures
PREREQ: Math 198, 211, and a computer language.
List processing languages, theories of file organization, theories of information design, information retrieval, applications.

830M Linear Programming
PREREQ: CS 322 or equivalent
An introduction to linear programming and applications.

830N Introduction to System Programming
PREREQ: CS 322 or equivalent
Input-output and storage systems, structures and transformations of data basis, assembly and executive systems.

870M Introduction to the Theory of Compilers
PREREQ: CS 322 or equivalent
Assemblers, interpreters, compilers, particular languages studied: a) shells, b) sNOBOL, c) ALGOL.

### Mathematics

811L Differential Equations
PREREQ: One year of calculus
Methods of solving ordinary differential equations with applications to geometry and physics. The linear equations are emphasized.

831L Probability and Statistics I
831L Probability and Statistics II
PREREQ: Math 197 First semester required for second semester enrollment.
Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, the multivariate normal distribution, testing of statistical hypotheses, confidence intervals.

890L Introduction to Topology
PREREQ: Math 196
Theory of sets, topological spaces, metric spaces, topological properties.

861L Modern Geometry
PREREQ: Math 196 or equivalent
Duality, perspectivity, harmonic sets, double ratio, conics and projective transformations, congruence and independence of sets of points and sets of lines, matrices and determinants, pole and polar, polar reciprocation in respect to a conic, classical theorems.

811M Abstract Algebra
812M Abstract Algebra
PREREQ: Six hours of mathematics 300 or above. Math 411 required for Math 812M
An introduction to modern algebra: congruences, groups, fields, linear transformations and matrices.

822M Mathematical Analysis
824M Mathematical Analysis
PREREQ: 6 hours of mathematics numbered 300 or above
Topology of Euclidean space, continuity, differentiation, Riemann-Stieltjes integration sequences and series, Math 822M required for Math 824M

827M Complex Variables
PREREQ: Math 822M or Advanced Calculus
Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation, singularities and representation of analytic functions.

828M Theory of Ordinary Differential Equations
PREREQ: Math 311 (Differential Equations) and Math 423
Power series solutions, Green's functions, existence and uniqueness theorems, plane autonomous systems, Sturm-Liouville systems, eigenfunction expansions.

833M Operational Mathematics
PREREQ: Math 311
Laplace transform and properties, applications, Inversion integral, heat conduction problems, Sturm-Liouville systems, Fourier transforms.

841M Introduction to the Foundations of Mathematics
PREREQ: Graduate classification
Logic, axiom systems, set theory, groups, the real number system, metamathematics.

851M Theory of Numbers
PREREQ: 3 semesters of college mathematics including 3 years of calculus
Congruences, quadratic reciprocity, diophantine equations, continued fractions, and prime number distribution.

860M Tensor Analysis
PREREQ: Math 311 or equivalent

855V Partial Differential Equations
PREREQ: Math 423 and Math 311
Linear and nonlinear first order equations, self-adjoint elliptic equations, linear integral equations, eigen-functions, and boundary value problems.

855V Theory of Analytic Functions
856V Theory of Analytic Functions
PREREQ: Math 423, 424, or equivalent
Complex number, analytic and elementary functions, complex integrals; calculus of residues, entire and meromorphic functions, Normal families, and conformal mappings.

845V Calculus of Variations
PREREQ: Math 423-424
An introductory course devoted to the classical theory and problems, such as the Brachistochrone problem and problems in parametric form.

850V Differential Geometry
PREREQ: Math 423
Differential manifolds, integral calculus on manifolds, lie groups, differential geometry of Euclidean space.

865V Introductory Topology
PREREQ: Permission of instructor
Set theory, topological spaces, convergence, continuity metric spaces and motivation, simplicial homology theory.

859V Graduate Seminar
PREREQ: Permission of instructor
A graduate seminar in mathematics.

899 Thesis
PREREQ: Permission of department chairman

899V Independent Graduate Studies
Under this number a graduate student may pursue studies in an area that is not normally available to him in a formal course. The topics studied will be a graduate area in mathematics to be determined by the instructor. Prereq: Permission of instructor and graduate classification.

911 Advanced Topics in Algebra I
912 Advanced Topics in Algebra II
PREREQ: Math 411
Vector spaces, linear transformations, theory of a single linear transformation, sets of linear transformations, bilinear forms, Euclidean space, unitary space, products of vector spaces.

923 Theory of Functions of Real Variables
924 Theory of Functions of Real Variables
PREREQ: Math 423 or Advanced Calculus
Real number system, convergence, continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, the Lp spaces.
Course Descriptions

892M Principles of Geology
PREREQ: General Physics and/or General Chemistry
This course is designed primarily for Junior and Senior High School teachers of science, but would also benefit any elementary teacher qualified to take the course. Course content includes sections on minerals, rocks, volcanism, diastrophism, gradational agents, historical geology, geophysics and structural geology.

893M Descriptive Astronomy
PREREQ: General Physics and/or General Chemistry
Astronomy course designed primarily for Junior and Senior High School teachers of science or for science majors desiring to broaden their background. Includes historical highlights, Newtonian mechanics, solar system, telescopes, physics or starlight, star, star systems, and stellar evolution.

895M Quantum Mechanics
PREREQ: Calculus, Physics 325 or permission
In this rigorous introduction to quantum mechanics the student becomes familiar with the methods of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Using these techniques the following topics are discussed: particles in potential wells, harmonic oscillator, angular momentum, hydrogen atom, time-independent perturbation theory and molecular bonding.

896M Modern Developments in Physics
各自的课程和时间

POLITICAL SCIENCE (POL. SCI)

Graduate Faculty Members:
Professors W. C. B. Lambert, Harry W. Reynolds, David C. Scott (Chairman), William T. Utley;
Associate Professors H. Carl Camp, Bernard D. Kolasa, Orville D. Menard;
Assistant Professor John T. Farr.

An applicant for admission to the Master of Arts degree program with a major in Political Science must present as a prerequisite a minimum of fifteen undergraduate semester hours of Political Science 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 at the 800V level exclusive of thesis hours. The remaining course hours are elective but must be planned in conference with the student's academic adviser to meet individual interests and needs.

Master of Science

Degree Requirements: For the Master of Science with a major in Political Science, eighteen hours of the required thirty-six hours must be at the 800V level. The remaining hours are elective, but must be planned in conference with the student's academic adviser to meet individual interests and needs.
003M The Presidency

The rise of the institution from Washington to the present, to the position and prestige it holds and how the President wields his power and influence to guide Congress, the courts, and the public.

004M The Legislative Process

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

005M The Judicial Process

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

010M Comparative State Politics

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

012M Public Opinion and Political Behavior

Analysis of the political socialization process as it relates to opinion formulation and participation and the effects of this process on the operation of the political system.

018M Constitutional Law I

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

019M Constitutional Law II

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

020M International Politics of Asia

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

021M Foreign Policy of the U.S.S.R.

A study of the foreign policy of the U.S.S.R., with emphasis on developments since 1945. Internal and external influences on Soviet foreign policy, the processes of foreign policy planning, and the relations among members of the Communist party will also be considered.

023M Inter-American Politics

Analysis of the role of Latin American states in the international political arena. Emphasis upon developing and applying the strategy of international politics through the study of the Inter-American system: the regional institutional and ideological environment, power relations, policies, and contemporary problems.

031M Political Theory I

Reviews and analyzes the leading political theories of Western Man from the Hebrews and Greeks to the mid-17th Century.

032M Political Theory II

Continues the review and analysis of the leading political theories of Western Man begun in Pol. Sci. 351, bringing the study down to the French Revolution.

033M Political Theory III

Continues the review and analysis of the leading political theories of Western Man begun in Pol. Sci. 351 (Political Theory I and II), bringing the study down to the present day.

034M Political Theory IV

An over-view and analysis of the dominant political thoughts and ideas that have been present in American thinking from the days of the Puritans to today, and the individuals who hold them.

035M Democracy

A basic study of theory, practice, and practitioners of political democracy, its roots, development, present application, and problems and future.

036M Dictatorships

A basic study of theory, practice, and practitioners of political dictatorship, its roots, development, major 20th century application and bestiality, and threats to man.

037M Communism

The Marxist message, its use as an impetus to political power, its world-wide extension, and the threat it poses for the world in the hands of the Soviet Union and others.

038M Government and Politics of Great Britain

A comprehensive study of British politics and government. Emphasis will be placed on the formal institutions and informal customs and practices of the British political system.

039M Government and Politics of the U.S.S.R.

An analysis of the structure and processes of government in the U.S.S.R. Special attention will be devoted to the role of the Communist Party in Soviet politics and to the ideological and social factors which influence policy formulation.

040V Seminar in Political Research Methods

PREREQ: Permission of graduate adviser

A critical investigation of the methods of data collection and analysis for political science research.

041V Seminar in American Government and Politics

PREREQ: Permission of graduate adviser

A thorough analysis of selected topics in American government and politics with emphasis on individual research by the student.

043V Seminar in Public Law

PREREQ: Three semester hours in public law or permission of graduate adviser

Practical methods of research as applied to specifically selected problems in the areas of Administrative, Constitutional, and/or International Law. Problems studied will correspond to those encountered by government employees and officials, and planners at the national, state, and local levels. Emphasis will vary from semester to semester in accordance with the background and objectives of the students enrolled.

045V Seminar in International Politics

PREREQ: Graduate standing with permission of instructor and department chairman

An examination of the theoretical frameworks advanced for the systematic study of International Relations, with application to particular problems in international relations.

047V Seminar in Political Theory

PREREQ: Six hours of Political Theory or permission of graduate adviser

Analysis of selected topics in normative, empirical, and ideological political theory and their impact upon practitioners of politics.

049V Seminar in Comparative Politics

PREREQ: Graduate standing with permission of the instructor and department chairman

An examination of the purpose, theories and literature of the field of comparative politics, with evaluation of the theories by application to contemporary political systems.

051V Seminar in Comparative Politics: Emerging Areas

PREREQ: Permission of graduate adviser

Eminence and writing on topics of general and particular aspects of the governments, politics, and political problems of emerging nations.
The remainder of the student’s course work is elective, but must  be planned in conference with his academic adviser, to meet the individual needs and interests. The student may emphasize one of the following areas: educational, general-experimental, physiological, industrial, quantitative, personality, social, or child psychology. Final determination of a student’s plan of study always resides with his adviser and the department. To meet the graduate college requirements, a student must take at least half of his work in courses which are open only to graduate students.

**Master of Science**

To complete the M.S. with a major in industrial psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology, or 24 hours in psychology plus 12 hours in a related minor field. The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

- **I. Psychology 904 (Proseminar in Learning)**
- **B. Psychology 956 (Proseminar in Development)**
- **II. A. Psychology 921 (Proseminar in Perception)**
- **B. Psychology 922 (Proseminar in Physiological Psychology)**
- **III. A. Psychology 910 (Proseminar in Analysis of Variance)**
- **B. Psychology 911 (Proseminar in Factor Analysis)**
- **IV. A. Psychology 943 (Proseminar in Personality)**
- **B. Psychology 944 (Proseminar in Social Psychology)**

Additional required course work may be designated by the department. This will ordinarily include up to 3 hours of practicum credit. Final determination of a student’s plan of study always resides with his adviser and the department. To meet the graduate college requirements a student must take at least half of his work in courses which are open only to graduate students.

**Special Programs Leading to Certification in School Psychological Services**

**Psychological Assistant**

Students who are pursuing work toward the M.A. or M.S. in educational psychology may simultaneously complete requirements for endorsement in Nebraska as a Psychological Assistant. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for degree candidacy in order to ensure that required courses are included in the plan of study for the degree. In any event, students must have been accepted in this program before enrolling in Psychology 853V or 854V. Application should be made to the Psychology Department and three letters of recommendation are required.

**School Psychologist**

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

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

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

I. Required Courses in Psychological Methods

Psych 830V The Profession of Psychology
Psych 833V Individual Tests I
Psych 834V Individual Tests II
Psych 831M (or 431) Psychological and Educational Testing
Psych 839V Practice in Psychology
Psych 832M Advanced Educational Psychology
Psych 858 Personality Assessment
Psych 979 Topical Seminar in School Psychology (3-9 hours)

One of the following courses:
Psych 853V Introduction to Therapeutic Techniques with Children
Psych 857V Behavioral Modification

One of the following four courses
Psych 853M (or 453) Retardation
Psych 855M (or 455) Psychology of Exceptional Children
SPED 836V Teaching the Exceptional Child
SPED 839M (or 499) Introduction to the Mentally Subnormal Child

II. Required Professional Education Courses

COUN 832V Counseling Practices
ED 832V Foundations of Educational Administration and Supervision
SED 830V Emerging School Curriculum

III. Required Supporting Work

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

Course Descriptions

801M History of Psychology

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

802M Psychology of Motivation

PREREQ: Psychology 213, 351, or 504
An exploration of the motivation of organisms including methods, concepts, issues, and theories derived from historical and contemporary research.

803M Computer Concepts in Psychology and the Behavioral Sciences

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

804M Environmental Psychology

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

805M Cognitive Processes

PREREQ: Psychology 301 or 504
An exploration of historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, creativity, memory, and symbolic behavior.

812M Research Design

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

813M Nonparametric Statistics

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

827M Animal Behavior (Same as Biology 827M)

PREREQ: Psychology 101 and Biology 175 or permission
Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit.

831M Psychological and Educational Testing

PREREQ: Psychology 101 and 351
The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity.

832M Individual Differences

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

843M Psychoanalytic Theories of Personality

PREREQ: Psychology 343 and Psychology 213 (or equivalent)
An integrative course designed to acquaint the student with the Freudian and psychoanalytic viewpoints. Research in anxiety, defense mechanisms, sleep, and dreams is emphasized.

844M Abnormal Psychology

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

845M Personality Theories

PREREQ: Psychology 343 or permission
A comparative approach to the understanding of personality theory emphasizing the conflict, fulfillment, and consistency approaches to personality.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>047M</td>
<td>Advanced Counseling Theory</td>
<td>3 hours</td>
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<td></td>
<td>PREREQ: Psychology 343 or Coun 820V or Psychology 845M</td>
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<td></td>
<td>This course emphasizes the relation between diagnosis and treatment with a Jungian approach embracing psychology, literature, philosophy, and theology. Readings are emphasized.</td>
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<tr>
<td>055M</td>
<td>Psycholinguistics (Speech 832M and Anth 852M)</td>
<td>3 hours</td>
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<td></td>
<td>PREREQ: none</td>
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<td></td>
<td>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.</td>
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<tr>
<td>059IV</td>
<td>Psychology 832M</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>PREREQ: Psychology 213 and Psychology 343 or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>845M</td>
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<td></td>
<td>This course considers significantly sub-average intellectual functioning originating during the developmental period and associated with impairment in adaptive behavior. Research is emphasized.</td>
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<tr>
<td>060M</td>
<td>Psychology of Exceptional Children</td>
<td>3 hours</td>
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<td>PREREQ: Psychology 343 or 351</td>
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<td>A study of the special problems of children with visual, auditory, or neurological impairments, orthopedic anomalies, intellectual retardation or superiorities, speech disorders, emotional or social maladjustments, learning disabilities and cultural deprivation; and the characteristic relationships of parents, professionals, and others to these children.</td>
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<tr>
<td>061M</td>
<td>Engineering Psychology</td>
<td>3 hours</td>
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<td></td>
<td>PREREQ: Psychology 101 and permission of instructor</td>
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<tr>
<td></td>
<td>The methods of experimental psychology are discussed as they relate to problems of designing machines for efficient human use.</td>
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<tr>
<td>062M</td>
<td>Psychological Aspects of Industrial Training and Education</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>PREREQ: Psychology 363 and Psychology 313 (or equivalent)</td>
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<tr>
<td></td>
<td>A study and application of the theory, technique, and procedures involved in preparing individuals for their jobs through training and education.</td>
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<tr>
<td>063M</td>
<td>Techniques of Programmed Instruction</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>PREREQ: Psychology 101 and permission of instructor</td>
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<tr>
<td></td>
<td>An introduction to methods and technology in construction and use of teaching machine programs, with special emphasis on computer assisted instruction.</td>
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<tr>
<td>065M</td>
<td>Problems in Psychology</td>
<td>1-6 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: 15 hours of psychology and permission of department. May be repeated for up to six hours total credit.</td>
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<tr>
<td></td>
<td>A faculty supervised research project, involving empirical or library work and oral or written reports.</td>
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<tr>
<td>066M</td>
<td>Research Problems in Physiological Psychology</td>
<td>3-6 hours</td>
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<tr>
<td></td>
<td>PREREQ: Psychology 223 and permission of instructor</td>
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<tr>
<td></td>
<td>An individualized introduction to the techniques and methodology used in the physiological psychology laboratory.</td>
<td></td>
</tr>
<tr>
<td>068V</td>
<td>The Profession of Psychology</td>
<td>6 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: none</td>
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<tr>
<td></td>
<td>A required non-credit course for graduate students in psychology intended to familiarize the beginning graduate student with the profession of psychology including such topics as ethics, professional organizations, job and educational opportunities, the use of reference materials, licensing and certification, and other relevant material.</td>
<td></td>
</tr>
<tr>
<td>070V</td>
<td>Introduction to Counseling Theories (Coun 820V)</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: Education 200M or department permission</td>
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<tr>
<td></td>
<td>Study of contemporary theories of counseling, the counseling process and methods.</td>
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</tr>
<tr>
<td>072V</td>
<td>Tests and Measurements</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: Psychology 213 (or equivalent)</td>
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<tr>
<td></td>
<td>A study of the theoretical and practical problems related to the development and use of psychological tests covering such topics as measurement, test development, standardization, reliability, validity, and interpretation.</td>
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<tr>
<td>085V</td>
<td>Seminar in Communication Theory (Speech 855V)</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: Psychology 312 (or equivalent) or permission of instructor</td>
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<tr>
<td></td>
<td>Analysis of current approaches to the study of communication with emphasis on theoretical models and their application to various professional interests.</td>
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</tr>
<tr>
<td>085V</td>
<td>Advanced Educational Psychology</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: Psychology 351</td>
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</tr>
<tr>
<td></td>
<td>A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those problems existing in the classroom.</td>
<td></td>
</tr>
<tr>
<td>085V</td>
<td>Individual Tests I</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: 15 graduate hours of psychology including completion of all required courses for the Master's degree and Psychology 311 or 832V and admission to either Psychological Assistant or School Psychologist Program. Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing.</td>
<td></td>
</tr>
<tr>
<td>085V</td>
<td>Individual Tests II</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: 15 graduate hours of psychology including completion of all required courses for the Master's degree and Psychology 311 or 832V and admission to either Psychological Assistant or School Psychologist Program. Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing.</td>
<td></td>
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<tr>
<td>085V</td>
<td>Introduction to Therapeutic Techniques with Children</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: none</td>
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<tr>
<td></td>
<td>The purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. Th e history and methods of and the research with play therapy are considered.</td>
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</tr>
<tr>
<td>085V</td>
<td>Learning in Children</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>PREREQ: none</td>
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<tr>
<td></td>
<td>A course dealing with learning in infants, children and, for comparison purposes, adults. Research relevant to developmental differences in learning ability will be emphasized. Content areas included will be learning methodology with infants and children, learning in infancy, probability learning, transposition and reversal shift learning, imprinting, habituation and imitation learning.</td>
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<tr>
<td>085V</td>
<td>Behavior Modification</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>PREREQ: Psychology 302 and 343, or permission of instructor</td>
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<tr>
<td></td>
<td>A course in the techniques, rationale, and research literature of changing behavior through reinforcement procedures. Particular attention will be paid to behavior including retarded children, behavior problems in school, and the behavior of the mentally disturbed.</td>
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<tr>
<td>088V</td>
<td>Linguistic and Cognitive Development</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>PREREQ: Psychology 352 (or equivalent) or permission of instructor</td>
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<tr>
<td></td>
<td>A course which provides the student with an in-depth coverage of the recent literature on social and personality development in infancy and childhood. Research methods and theory, as they apply to social and personality development, will be emphasized throughout the course. All students will be expected to design and conduct a mini-experimental study in the area of social and personality development.</td>
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<tr>
<td>089V</td>
<td>Social and Personality Development</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>PREREQ: none</td>
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<tr>
<td></td>
<td>A course which provides the student with an in-depth coverage of the recent literature on social and personality development in infancy and childhood. Research methods and theory, as they apply to social and personality development, will be emphasized throughout the course. All students will be expected to design and conduct a mini-experimental study in the area of social and personality development.</td>
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<tr>
<td>088V</td>
<td>Clinical Child Psychology for School Psychologists</td>
<td>2 hours</td>
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<tr>
<td></td>
<td>PREREQ: Permission</td>
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<tr>
<td></td>
<td>(Cross-listed with Psychiatry 360 at the University of Nebraska College of Medicine)</td>
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<tr>
<td></td>
<td>An advanced course in child psychology, with emphasis upon diagnostic classification, assessment and treatment of approaches and techniques, assessment, and correction of problem behavior in the school age child.</td>
<td></td>
</tr>
</tbody>
</table>
899 Thesis 1-6 hours
900 Proseminar: Analysis of Variance
905 Advanced Seminar in Learning (Newton)
906 Proseminar: Learning (Newton)
911 Proseminar: Psychology 301 or permission of instructor
914 A course considering theorists who have most directly influenced the contemporary psychology of learning.
915 Theories and research on the development, facilitation and barriers of learning in humans and animals.
916 A comprehensive and intensive coverage of the experimental literature in both human and animal learning.
917 Psychology 301 or permission of instructor
918 A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model.
919 A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model.
920 Proseminar: Multiple Regression and Factor Analysis
921 Proseminar: Perception (Defenbacher)
922 Proseminar: Physiological Psychology (Hendrickson)
923 Proseminar: Psychological Psychology (Hendrickson, Mauk, Pedrini)
924 Seminar in Developmental Psychology (Hendricks, Mauk, Pedrini)
925 Seminar in Social Psychology (Hendricks, Pedrini, Strider, Wikoff)
926 Seminar in Biological Psychology (Hendricks, Mauk, Pedrini)
927 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
928 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
929 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
930 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
931 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
932 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
933 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
934 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
935 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
936 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
937 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
938 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
939 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
940 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
941 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
942 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
943 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
944 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
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949 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
950 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
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959 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
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961 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
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980 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
981 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)
982 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
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998 Seminar in Personality Psychology (Hendricks, Mauk, Pedrini)
999 Seminar in Social Psychology (Hendricks, Mauk, Pedrini)

PUBLIC ADMINISTRATION

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

MASTER OF PUBLIC ADMINISTRATION

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

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

For a student to be admitted unconditionally to the M.P.A. program he must have completed as prerequisites three semester credits in each of the following: Introduction to Public Administration, Urban Government, accounting, and statistics. In addition, if the student's undergraduate preparation in social sciences is insufficient, additional preliminary work may be prescribed which he must complete before he is accorded unconditional admission. These additional courses do not carry graduate credit, but other courses for graduate credit may be taken simultaneously.

**Degree Requirements**

Thirty semester hours of course work are required, plus six hours of internship in a public agency for 8 to 12 months. The internship may be waived and up to six credit hours granted for service in civilian public service of public agencies. Requests to waive the internship shall be submitted to a departmental committee for approval. In lieu of the internship in such cases the committee may require additional course work or a thesis.

A core of eight required courses shall be completed plus six credit hours from a specified list of optional courses. The required courses include, but are not necessarily restricted to, Political Science 800V; Public Administration 840M, 841M, 840V, 844V, 846V, and Economics 880M. The optional courses may be selected from Political Science 882V, 884V; Public Administration 843M, 845M, 848V, 881V; Economics 880M, 816V, 822V, 885V, 886V; and Geography 812M, 890M, 865V. It is possible in exceptional circumstances for up to six credit hours of optional courses to be substituted for certain required courses. Such substitutions require approval of a student's adviser.

Eighteen hours of the course work must be at the 800V level. A comprehensive final examination both written and oral is required.

**Public Administration**

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

- **841M Public Personnel Management**
  3 hours
  A study of personnel processes in American governmental administration. The processes and problems of recruiting, selecting, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.

- **842M Municipal Administration**
  3 hours
  The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities, and planning.

- **843M State Administration**
  3 hours
  A study of the administrative organization and procedures of selected states in the Federal System. Application of the principles of public administration to the level of state governments is made on a comparative basis.

- **846V Seminar in Public Administration**
  PREREQ: Permission of graduate adviser
  3 hours
  An in-depth study of the relationships existing between the art and science of public administration, on the one hand, and the processes of government on the other. The emphasis is principally on broad categories of political and administrative issues as they condition each other.

**University of Nebraska at Omaha**

- **842V Seminar in Human Relations and Management in Public Agencies**
  3 hours
  PREREQ: Permission of graduate adviser
  A study of the social and psychological aspects of management as they are pertinent to the operation of governmental agencies.

- **844V Seminar in Public Organization and Management**
  PREREQ: Permission of graduate adviser
  A study of the principal organizational problems encountered in larger public or governmental bureaucracies.

- **846V Seminar in Public Personnel Administration**
  PREREQ: Permission of graduate adviser
  This course focuses on the principle consideration affecting the selection and utilization of personnel by government agencies. The emphasis is less in terms of description of processes than in terms of identifying and exploring solutions to problems.

- **848V Seminar in Public Financial Administration**
  PREREQ: Permission of graduate adviser
  Financial organization, intergovernmental financial relations, and the administrative and political aspects of budgetary planning and control.

- **881V Urban Seminar in Metropolitan Planning and Development**
  3 hours
  PREREQ: Permission of graduate adviser
  Financial organization, intergovernmental financial relations, and the administrative and political aspects of budgetary planning and control.

- **882V Readings in Public Administration**
  3 hours
  Specialized reading in Public Administration for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is advised by the Department to be capable of pursuing a highly independent course of study.

- **883V-884V Internship**
  3 hours each semester
  Maximum of 3 to be granted upon completion of written report on internship. Internship in some governmental, national, state, local.

**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 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.

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

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

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

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

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

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

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

### 1. FIRST YEAR PROGRAM

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Core</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Work Practice I (SW 830)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Practicum I (SW 841)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Psychodynamics of Human Behavior (SW 825)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Public Welfare Organization (SW 857)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Social Interaction for Social Work (SW 827)</td>
<td></td>
<td>X</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Core</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Work Practice II (SW 831)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Psychodynamics of Human Behavior (SW 825)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Physical Components of Social Functioning (SW 822)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Social Services for Children and Families (SW 865)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Research Methods in Social Work (SW 853)</td>
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<td>X</td>
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</tbody>
</table>

### 2. SECOND YEAR PROGRAM

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Core</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casework III (SW 912) or Social Group Work III (SW 911)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Practicum III (SW 997A)</td>
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<td>X</td>
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<tr>
<td>Community Planning and Organization (SW 978)</td>
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<td>X</td>
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<tr>
<td>Administration in Social Work (SW 965)</td>
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<td>X</td>
</tr>
<tr>
<td>Supervision in Social Work (SW 964)</td>
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<td>X</td>
</tr>
<tr>
<td>Research Other than Thesis (SW 905)</td>
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<td>X</td>
</tr>
<tr>
<td>Special Studies in Social Welfare (SW 963)</td>
<td></td>
<td>X</td>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Core</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Seminar in Social Work Practice (SW 989)</td>
<td></td>
<td>X</td>
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<tr>
<td>Practicum IV (SW 997B)</td>
<td></td>
<td>X</td>
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<tr>
<td>Public Social Welfare Policy (SW 861)</td>
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<td>X</td>
</tr>
<tr>
<td>Orientation to Clinical Psychology (SW 955)*</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Social Work Practice in Child Welfare (SW 915)*</td>
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<td>X</td>
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<tr>
<td>Delinquency and Its Treatment (SW 953)*</td>
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<td>X</td>
</tr>
<tr>
<td>Special Studies in Social Welfare (SW 966)</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### COURSES OF INSTRUCTION

Courses in the 400/500 series are offered for undergraduate credit and also for graduate students desiring to increase their knowledge of social work and social welfare programs without engaging in the regular social work training program. Courses in the 600 and 900 series carry graduate credit and are not open to undergraduates except by permission of the Dean of the Graduate College.

The numbers in parentheses preceding the course title indicate numbers under which courses were offered in 1970-71.

**PREREQUISITIES**—General prerequisites for courses in the 600 series are a bachelor’s degree and training in certain definite subjects as outlined under requirements for admission.

**Human Behavior and the Social Environment—Graduate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>822 (321)</td>
<td>3</td>
<td>Physical Components of Social Functioning (1-5 cr) (Required) PREREQ: 322 or permission. Prerequisites: psychology, both normal and abnormal, which are related to social functioning, and which are known to affect social role performance. This information provides a part of the essential knowledge base of social work practice.</td>
</tr>
<tr>
<td>825 (325)</td>
<td>3</td>
<td>Psychodynamics of Human Behavior I (3 cr) (Required) PREREQ: 322 or permission. Prerequisites: SW 825, SW 841 or by permission. Dynamics of development of the personality from infancy to the preadolescent years, with both normal development and deviation considered.</td>
</tr>
<tr>
<td>826 (326)</td>
<td>3</td>
<td>Psychodynamics of Human Behavior II (3 cr) (Required) PREREQ: SW 825, SW 841, 842 or permission. Prerequisites: SW 825, SW 841, or permission. Dynamics of development of the personality from infancy to the preadolescent years, with both normal development and deviation considered.</td>
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<tr>
<td>827 (327)</td>
<td>3</td>
<td>Social Interaction for Social Work (3 cr) (Required) PREREQ: SW 823, SW 830, SW 841 or permission. Prerequisites: SW 825, SW 841, or permission. Dynamics of development of the personality from infancy to the preadolescent years, with both normal development and deviation considered.</td>
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<tr>
<td>855 (355)</td>
<td>1</td>
<td>Orientation to Clinical Psychology (1 cr) (Elective) PREREQ: SW 842 or permission. Prerequisites: SW 842 or permission. A description of the techniques of the clinical psychologist which are related to the integrated functioning of psychologists and social workers in the mental health team.</td>
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**Social Welfare Policy and Services—Graduate**

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<td>857 (357)</td>
<td>3</td>
<td>Public Social Welfare Organization (3-4 cr) (Required) PREREQ: SW 857 or permission. Prerequisites: SW 857 or permission. The structure of public social service in the United States: principal programs of service and patterns of administrative organization.</td>
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<tr>
<td>865 (365)</td>
<td>2</td>
<td>Social Services for Children and Families (2 cr) (Required) PREREQ: SW 857 or permission. Prerequisites: SW 857 or permission. Consideration of society's response to the social needs of children and their families and of selected social welfare programs designed to strengthen, supplement, or to substitute for parental care. Attention is given to social policy and related legal aspects of these programs, to the role of the social worker in the organization and development of these programs, and to the social policy toward improved ways of meeting social needs of children and families.</td>
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<tr>
<td>861 (361)</td>
<td>2</td>
<td>Public Social Welfare Policy (2 cr) (Required) PREREQ: SW 857 or permission. Prerequisites: SW 857 or permission. Basic considerations in social welfare such as government responsibility, categorical programs; the means test; legal responsibility of relatives; the citizen's right to assistance; work relief, etc., studied and critically evaluated.</td>
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Social Work Practice—Graduate

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

831 (331), Social Work Practice II (3-4 cr) (Required)
PREREQ: SW 830; parallel: SW 842 or permission
Consideration of the common base of social work practice with emphasis on the assessment of social situations leading to choice of intervention action from a repertoire of intervention approaches. The workers' role as the change agent in this process is developed through continuous application of basic social work practice theory as utilized with individual, group, organization, and community clinical systems.

913 (313), Social Casework III (2 cr) (Required)
PREREQ: SW 831, 842 or permission
Emphasis is placed on understanding of casework theory applied to social diagnosis and treatment of individuals and families with difficult problems of social functioning. These are considered in a variety of agency settings and related to concurrent field work practice.

915 (315), Social Work Practice in Child Welfare (2-3 cr) (Elective)
PREREQ: SW 831, and SW 842 and 229 or equivalent
Consideration of social work practice in child welfare with special emphasis on the range of foster care services from family foster home through institutional care.

924 (324), Social Work Practice in Mental Health (2, 3 cr) (Elective)
PREREQ: SW 825, 832, or permission
Consideration of the practice of social work in mental health with special emphasis on current trends, principles, and practices.

953 (353), Delinquency and Its Treatment (2 cr) (Elective)
PREREQ: SW 800, 841, or permission
Juvenile delinquency, its causes; methods of treatment, dealing with the individual in relation to home, school, community, and the law; and a consideration of preventive programs in the field today.

962 (362), Administration in Social Work (2-3 cr) (Required)
PREREQ: SW 841 or permission
Administration as a process involving the total agency. Governmental and voluntary agencies. Problems encountered and principles applicable to administration of social welfare services.

964 (364), Supervision in Social Work (2-3 cr) (Elective)
PREREQ: Second year graduate standing or permission
Basic teaching and learning techniques and models applied to social work practices including intensive study of principles, skills, and techniques of the supervisory process, as well as differential use of the supervisory role with trained, experienced staff or volunteers.

975 (375), Community Planning and Organization (2 cr) (Required)
Importance of social process in the community; existing organizations to meet social needs; steps in creating a social plan for the community in relationship to the worker and the agency.

981 (351), Social Group Work III (2-3 cr) (Required)
PREREQ: SW 831, 841, or by permission
The development of professional skills in areas of greater complexity including diagnosis and treatment for both the individual and group. Specific aspects of practice in a variety of settings and fields of practice including residential treatment facilities.

989 (358), Advanced Seminar in Social Work Practice (2-3 cr) (Required)
PREREQ: SW 831 or 841, or permission
Consideration of trends, problems, and issues in current social work practice. Exploration of innovations in the delivery of services and in changing concepts of social work functions.
Examinations: Both the M.A. and M.S. (see below) degree programs with majors in sociology require the incoming student to complete an examination covering basic concepts and theorists of the field. The examination is used in counseling the student in his degree program. In addition the student must demonstrate proficiency in sociology through successful completion of four comprehensive examinations.

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

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

Master of Arts

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

Master of Science with a Major in Applied Sociology

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

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

Course Descriptions

Anthropology

821M Cultural Anthropology

PREREQ: Graduate

(1) 3 hours

Family, art, war, maintenance, prestige, religion approached as parts of an integrated whole, a way of life of preliterate human society. Illustrations from a number of simple societies, anthropological theories, methods of study.

822M North American Archaeology

PREREQ: Graduate

(1) 3 hours

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

Practicums

822M Psycholinguistics

(Same as Psychology 852M and Speech 852M)

PREREQ: Graduate standing

A detailed 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.

Sociology

821M Seminar in Anthropological Problems

PREREQ: Graduate

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 depth of knowledge in individual areas.

801M Social Control of Behavior

PREREQ: Graduate

The social processes by which the person's behavior is adapted to the group. External restraints, roles, self-control. Analysis and measurement of behavior in the context of socially defined "fields."

802M Collective and Exchange Behavior

PREREQ: Graduate

The study of the processes of growth and change within unstable and transitory groups, including crowds and associated phenomena, diffuse collectivities, advertising and propaganda aggregates in mass society, publics, and social movements.

803M Advanced General Sociology

PREREQ: Graduate.

Not open to anyone who has recent credit in Sociology 161. (DOES NOT CARRY GRADUATE CREDIT IN SOCIOLOGY.

804M The Community

PREREQ: Graduate

A basic course in community sociology. Sociological theory and the techniques of empirical research are applied to published studies of communities in the United States and elsewhere. The comparative social scientific method is elaborated as it pertains to data derived from community investigation.

805M Applied Social Gerontology

PREREQ: Graduate standing and permission of instructor

An introduction to social gerontology with a special emphasis upon the effects of aging on social institutions and social participation and an examination of practice-oriented implications.

812M Urban Geography (Same as Geography 421)

PREREQ: Graduate

A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities.

813M Sociology of Deviant Behavior

PREREQ: Graduate

A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of conventional behavior as expressed in law and norms.

814M Urban Sociology

PREREQ: Graduate

A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex; both as to effective functioning and as an environment for human beings, are discussed.

815M American Family Problems

PREREQ: Graduate

A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. II An analysis of failures of function and attendant problems in a variety of American families: parent-youth tension, problems of sexual adjustment, role conflicts, multi-problem families, desertion, divorce, others.
851M Methods of Social Research
PREREQ: Graduate
Relationships of theory, method, and the data in sociological investigation. Major techniques and instruments employed in social research, how developed, and where appropriately used. Formulation of research problems, use of statistics in analysis. Practical problems and limitations.

852M Complex Social Organizations
PREREQ: Graduate
Analysis of social structure in complex organizations, processes involved in the integration and disintegration of complex social organizations. An introduction to organizational analysis in medical, military, government, educational, and business settings. Implications of large-scale bureaucratization for social functioning.

875M Social Change
PREREQ: Graduate
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 these.

881M Sociology of Religion
PREREQ: Graduate
Analysis of religious behaviors from a sociological and social-psychological perspective, and utilizing both theoretical and empirical materials. The course is designed as an introductory approach to the sociology of religion, and the first in a two-step sequence, undergraduate and graduate.

899M Independent Study
PREREQ: Graduate
Guided reading in special topics under the supervision of a faculty member.

*899V Seminar in Social Psychology
PREREQ: Graduate
This seminar, required of departmental graduate students, gives a basic orientation to the leading figures, publications, organizations, and university departments. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology.

*851V Seminar in Social Psychology
PREREQ: Graduate
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social psychology selected by the instructor.

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

**Graduate Faculty Members:**
- Professors John K. Brillhart (Chairman), Elton S. Carter, Edwin L. Clay, and Mary E. Williamson
- Assistant Professor Dennis A. Fus, E. Grant Masland, Robert B. Moore, and Mary E. Williamson

**Master of Arts**

An applicant for graduate study in Speech (Interpersonal Communication, or Theatre) must present a minimum of 18 undergraduate semester hours in appropriate courses in communication arts and sciences beyond the introductory course, including advanced work in the area in which he intends to concentrate his graduate program. 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 one research course (Speech 801V), one theory seminar, and one additional course in the area of intended major emphasis. As soon as possible after completing the core requirements, the student must schedule and participate in an oral candidacy and placement examination conducted by the Graduate Program Committee or the student's Graduate Committee (if appointed). Following this examination, the decision will be made as to whether the student will follow a thesis or non-thesis program and a program of studies will be submitted to the Graduate College. 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 6 hours in 800V and 900 level courses; plus a thesis (6 credit hours) based on a proposal approved by the student's committee, defended orally before the committee; plus an oral examination over the student's field(s) of study.

**Option II:** Successful completion of 26 semester hours of course work including at least 18 hours in 800V and 900 level courses, (at least 18 hours must be in the student's field of concentration) and an independent research or creative project in writing, video, film, or thea're production; plus a written examination over his area of major emphasis and minor or area studies, judged by a faculty committee.

**Course Descriptions**

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<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<td>801M</td>
<td>Advanced Projects in Speech</td>
<td>I, II Each 1-3 hours</td>
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<td>802M</td>
<td>Development of Rhetorical Theory</td>
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<td>803M</td>
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<tr>
<td>811M</td>
<td>Advanced Projects in Speech</td>
<td>Each 3 hours</td>
</tr>
<tr>
<td>812M</td>
<td>Development of Rhetorical Theory</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**PREREQ:** Speech 801V or equivalent or, basic statistics, or permission of the instructor.

**Placement Examination:** Conducted by the Graduate Program Committee or the student's Graduate Committee (if appointed). The student must then complete either of the following plans of study approved for him or her:
851M Persuasion
PREREQ: Speech 101 and 3 hours psychology or sociology or permission
Basic principles and psychological processes underlying persuasive communication: a review of various sources, message, channel, and receiver variables and their influence on communication effectiveness.

852M Psycholinguistics
(Same as Psychology 852M and ANTH 852M)
PREREQ: Senior or graduate standing in Psychology or Speech or permission.
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.

853M Seminar in Cross Cultural Communication
PREREQ: Admission to graduate study and permission of the instructor
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. (Cross-listed as Soc. 853M)

854M Directing Forensics
PREREQ: Speech 112 or permission
To provide students planning to teach speech in high school or college with a philosophy and detailed knowledge of how to direct a forensic program.

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

881V Introduction to Research in Speech
PREREQ: Permission of the instructor
Basic components, functions, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal.

881V Seminar: Modern Public Address
PREREQ: Permission of the instructor
Studies in figures, movements and institutions prominent in modern public address. May be repeated.

815V College Debate Workshop
PREREQ: Graduate standing and permission
A comprehensive analysis of the current intercollegiate debate proposition. Emphasis on methods of coaching debate and debate tournament management at the college level. Students taking this course may not receive credit for Speech 862M, "Directing Forensics," toward a degree at UN-O.

870V Dramatic Theory and Criticism
PREREQ: Speech 220 or permission of instructor
For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present.

871V Seminar in Contemporary Theatre Aesthetics
PREREQ: Speech 220, Speech 420, and English 202 or permission
Research and dialogue in the aesthetic theories and movements in the contemporary theatre. Emphasis on the sources, background, and configuration of theatrical styles in this century.

821V Technical Theatre Problems
PREREQ: Graduate standing and Speech 220, Speech 423, and Speech 428-9 or permission
Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, theatre architecture, and scenic design and lighting from historical and contemporary points of view.

825V Seminar in Stage Direction
PREREQ: Graduate standing and permission
An in-depth study of the principles of stage direction.

830V Seminar in Broadcasting
PREREQ: Graduate standing and permission
Substantive study into specialized areas and modes of broadcasting, with varying interest according to the individual semester being offered.

855V Seminar in Applications of Non-Verbal Communication Theory
PREREQ: Course in research methods or permission of instructor
Theories and research on the development, facilitation and barriers of human non-verbal communication. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy, and interpersonal speech communication. (Brilhart, B.)
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