

1973

Graduate Academic Catalog (1973-1974)

University of Nebraska at Omaha

Follow this and additional works at: <http://digitalcommons.unomaha.edu/gradcatalogs>

 Part of the [Higher Education Administration Commons](#)

Recommended Citation

University of Nebraska at Omaha, "Graduate Academic Catalog (1973-1974)" (1973). *Graduate Catalogs*. 11.
<http://digitalcommons.unomaha.edu/gradcatalogs/11>

This Report is brought to you for free and open access by the UNO Academic Catalogs at DigitalCommons@UNO. It has been accepted for inclusion in Graduate Catalogs by an authorized administrator of DigitalCommons@UNO. For more information, please contact unodigitalcommons@unomaha.edu.





University of Omaha 1908-1931
Municipal University of Omaha 1931-1968

UNIVERSITY OF NEBRASKA
AT OMAHA

GRADUATE BULLETIN

1973-1974

TABLE OF CONTENTS

	Page
Calendar	4-6
University Administration	7
Graduate Faculty	8-16
Departments Offering Graduate Instruction	17
Examinations for Graduate Students	18
Accredited Standing	19
University Regulations	19
Graduate College	
Purpose	20
Administration	20
Academic Standards and Curriculum Committee	21
Senate Research Committee	21
Graduate Program Committees	22
Assistantship	22
Tuition Refunds	23
Scholarships	23
Organizations	23
Procedures and Regulations	
Admissions and Transcripts	23
Matriculation Fee	24
Audit	24
Classification of Admissions	24
Admission to Teacher Education Programs	26
Registration Procedure	26
Certification or Professional Growth	26
Administrative Certificate	26
Admission to Candidacy for the Degree	27
Application for the Degree	27
Thesis	27
Oral Examination on Thesis	28
Final Comprehensive Examination	28
Time Limit for All Master's Degrees	29
Quality of Work	29
Class Attendance	30
Study Load	30
Courses for Graduate Credit	30
Residence Requirements	30
Transfer of Credit	30
Withdrawal from University	31

TABLE OF CONTENTS—Continued

	Page
Procedures for Graduate Students	31
Tuition and Fees	32-34
Refund Schedule	34
Resident Students	35
Degree Programs	
Master of Arts	35
Master of Science	35
Master of Business Administration	35
Master of Public Administration	35
Master of Social Work	35
Specialist in Education	36
Departments	
Art	36
Biology	37
Business Administration	40
Chemistry	43
Civil Engineering	45
Economics	49
Education	
Educational Foundations	52
Elementary and Early Childhood Education	54
Secondary Education	55
Counseling and Guidance	59
Special Education	62
Educational Administration and Supervision	72
Experimentation and Development	77
Health, Physical Education and Welfare	78
English	79
Foreign Languages	81
Geography	83
History	87
Mathematics	93
Physics	96
Political Science	97
Psychology	100
Public Administration	107
Social Work	109
Sociology	113
Speech	118
Campus Map	125

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 30	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.

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

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.
December 24-25	Christmas Holiday. University closed.

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.

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.

UNIVERSITY OF NEBRASKA AT OMAHA

The Board of Regents

Robert Koefoot, M.D., Grand Island, Chairman
 Edward Schwarzkopf, Lincoln James H. Moylan, Omaha
 J. G. Elliott, Scottsbluff Robert Prokop, M.D., Papillion
 Kermit Hansen, Omaha Robert Raun, Minden
 Kermit Wagner, Schuyler
 Ralph H. Bradley, Corporation Secretary
 D. B. Varner, M.S., President

ADMINISTRATION

Ronald W. Roskens, Ph.D., Chancellor
 Ronald S. Beer, Ph.D., Vice-Chancellor for Educational and Student Services
 William L. Gaines, Ph.D., Dean of Academic Affairs
 Tim E. Sheehy, Ph.D., Executive Assistant to the Chancellor
 Charles Hein, A.B., Director of University Relations
 Rex Engebretson, Ed.D., Assistant to the Chancellor for Planning
 Clyde Biggers, M.A., Director of Athletics
 Virgil V. Sharpe, B.A., Registrar
 Jay W. Cox, M.A., Director of Admissions
 Harold D. Keefover, B.S., Director of Business and Finance

THE UNDERGRADUATE COLLEGES

John V. Blackwell, Ph.D.,
 Dean, The College of Arts and Sciences
 Bartholomew Dennehy, Ph.D.,
 Associate Dean, The College of Engineering and Architecture
 Paul C. Kennedy, Ed.D.,
 Dean, The College of Education
 George T. Harris, Ph.D.,
 Interim Dean, The College of Business Administration
 William T. Utley, M.A.,
 Dean, The College of Continuing Studies, Director, Summer Sessions
 Hubert G. Locke, M.A.,
 Dean, School of Public Affairs and Community Service

THE GRADUATE COLLEGE

Elton S. Carter, Ph.D.,
 Dean and Chairman of the Graduate Faculty

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, 1965; Professor
- FREDERICK W. ADRIAN..... *History*
Ph.D., Ohio State University, 1942; Professor
- JAMES C. AKERS..... *Special Education (Reading)*
Ed.D., Oklahoma State University, 1969; Associate Professor
- CLIFFORD ANDERBERG..... *Philosophy and Religion*
Ph.D., University of Wisconsin, 1953; Professor and Chairman of the Department
- AARON ARMFIELD..... *Special Education*
Ed.D., Northern Colorado University, 1964; Professor and Chairman of Department
- BRUCE P. BAKER II..... *English*
Ph.D., Texas Christian University, 1968; The Albert H. Jefferies Professor and Chairman of Department
- GEORGE BARGER..... *Sociology*
Ph.D., University of Missouri 1964; Profesor and Chairman of Department
- NICHOLAS BARISS..... *Geography*
Ph.D., Clark University, 1967; Professor
- PAUL L. BECK..... *History*
Ph.D., University of Nebraska-Lincoln, 1961; Professor
- *GORDON BECKER..... *Psychology*
Ph.D., University of Pittsburg, 1955; 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..... *Psychology*
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. BLACKWELL..... *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, 1966; Professor and Chairman of Department
- WILLIAM L. BLIZEK..... *Philosophy*
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, 1966; Associate Professor
- *JOHN K. BRILHART..... *Speech*
Ph.D., Pennsylvania State University, 1962; Professor and Chairman of Department

- NAN L. BRITT..... *History*
Ph.D., Emory University, 1972; Assistant Professor
- MERLE E. BROOKS..... *Biology*
Ph.D., University of Colorado, 1956; Professor
- EVAN BROWN..... *Psychology*
Ph.D., University of Washington, 1969; Assistant Professor
- WILLIAM M. BROWN..... *Business Administration (Marketing)*
Ph.D., University of Pittsburgh 1957; Professor
- BARBARA E. BUCHALTER..... *Mathematics*
Ph.D., University of Arizona, 1968; Associate Professor
- SIDNEY BUCHANAN..... *Art*
M.S., New Mexico Highlands University, 1963; Associate Professor
- CHARLES M. BULL..... *Business Administration (Marketing)*
Ph.D., University of Nebraska-Lincoln 1962; The Frederick W. Kayser Professor of Marketing
- DALE M. BUNSEN..... *Secondary Education*
Ed.D., University of Nebraska-Lincoln, 1958; Associate Professor
- KENNETH BURKHOLDER..... *Educational Administration*
Ed.D., University of Nebraska-Lincoln, 1958; Professor
- KARL H. D. BUSCH..... *Biology*
Ph.D., Ohio State University, 1940; Professor
- ROBERT R. BUTLER..... *Counseling and Guidance*
Ph.D., University of Missouri, 1970; Assistant Professor
- WALTER M. CALINGER..... *Experimentation and Development*
Ph.D., Ohio State University, 1970; Assistant Professor
- H. CARL CAMP..... *Political Science*
Ph.D., Washington University, 1965; Associate Professor
- *JO ANN CARRIGAN..... *History*
Ph.D., Louisiana State University, 1961; Professor
- *ELTON S. CARTER..... *Speech*
Ph.D., Northwestern University, 1950; 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..... *Sociology*
Ph.D., University of Minnesota, 1969; Assistant Professor
- JAMES J. CONWAY..... *Business Administration (Statistics)*
D.B.A., Texas Tech University, 1970; Professor
- *HARRY J. CROCKETT, JR..... *Sociology*
Ph.D., University of Michigan; Graduate Lecturer
- *DONALD CUSHENBERY..... *Special Education (Reading)*
Ed.D., University of Missouri, 1964; Foundations Professor; Director, Reading Clinic
- *HARL A. DALSTROM..... *History*
Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor and Chairman of Department
- HAROLD L. DAVIS..... *Industrial Technology*
Ed.D., University of Nebraska-Lincoln, 1970; Associate Professor

- *KENNETH A. DEFFENBACHER *Psychology*
Ph.D., University of Washington, 1968; Associate Professor
- WILLIAM deGRAW *Biology*
Ph.D., Washington State University, 1972; Assistant Professor
- BARTHOLOMEW DENNEHY *Civil Engineering*
Ph.D., Texas A. and M. University 1970; Registered Professional Engineer; Associate Professor and Associate Dean, The College of Engineering and Architecture; Director, Continuing Engineering Education
- ROBERT J. DETISCH *English*
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, 1955; Professor
- LAWRENCE E. EHLERS *General Engineering*
Ph.D., Oklahoma State, 1969; Registered Professional Engineer; Associate Professor and Chairman of Department
- KENNETH ELLER *Foreign Languages*
Ph.D., University of Kansas 1969; Associate Professor
- *ROBERT J. ELLINGSON *Psychology*
Ph.D., Northwestern University, 1950, 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, 1969; Associate Professor
- EUGENE FREUND *Educational Foundations*
Ph.D. Wayne State University, 1969; Associate Professor
- CRAIG FULLERTON *Special Education*
Ph.D., State University of Iowa, 1955; 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 GESSAMAN *Mathematics*
Ph.D., Montana State College, 1966; 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 Frederick W. Kayser Professor of Finance; Chairman, Graduate Department of Business Administration; Interim Dean, College of Business Administration
- ROGER R. HARVEY *Special Education*
(*Specific Learning Disabilities*)
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, 1958; 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, 1969; Professor

- FRANCIS M. HURST..... *Psychology*
Ed.D., Indiana University, 1954; Professor
- CHARLES O. INHAM..... *Biology*
Ph.D., University of Utah, 1963; Associate Professor
- ROBERT INNES..... *Psychology*
Ph.D., University of Nebraska-Lincoln, 1967; 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
- ERNEST 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, 1959; Professor
- *CLEMM KESSLER III..... *Psychology*
Ph.D., Western Reserve University, 1967; Associate Professor
- BRUCE A. KIRCHHOFF..... *Business Administration (Management)*
Ph.D., University of Utah, 1972; Assistant Professor
- RICHARD G. KOHLAN..... *Psychology*
Ph.D., University of Minnesota, 1966; Assistant Professor
- BERNARD D. KOLASA..... *Political Science*
Ph.D., University of Nebraska-Lincoln, 1969; Associate Professor
- YOUSSEFF I. KOUATLY..... *Business Administration (Insurance)*
Ph.D., University of Pennsylvania, 1971; Associate Professor
- EDWARD LaCROSSE..... *Special Education (Teaching the Mentally Retarded)*
Ed.D., Teachers College, Columbia University, 1964; Graduate Lecturer
- 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 Education*
Ed.D., University of Oregon, 1972; Assistant Professor
- WALTER W. LINSTROMBERG..... *Chemistry*
Ph.D., University of Missouri, 1955; Professor
- WILFRED LOGAN..... *Sociology*
Ph.D., University of Michigan, 1959; Graduate Lecturer
- JOHN W. LUCAS..... *Business Administration (Marketing)*
M.B.A., Ohio State University, 1935; LL.D., University of Omaha, 1968; 1968; Emeritus Professor
- NORMAN J. LUNA..... *Foreign Languages*
Ph.D., University of Colorado, 1969; Assistant Professor
- STEELE R. LUNT..... *Biology*
Ph.D., University of Utah, 1964; Associate Professor
- THOMAS MAJESKI..... *Art*
M.F.A., University of Iowa, 1963; 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)*
M.S., University of Wisconsin, 1965; Assistant Professor
- JOHN G. McMILLAN..... *Physics*
M.A., University of Nebraska-Lincoln, 1942; Professor and Chairman of Department
- *GILBERT MEIER..... *Psychology*
Ph.D., Washington University, 1943; Professor of Psychiatry, College of Medicine (Joint Appointment)
- *ORVILLE D. MENARD..... *Political Science*
Ph.D., University of Nebraska-Lincoln, 1964; Associate Professor
- *C. RAYMOND MILLIMET..... *Psychology*
Ph.D., Oklahoma State University 1968; Associate Professor
- JOYCE MINTEER..... *Business Administration (Communications)*
Ed.D., Indiana University, 1967; Professor
- 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, 1970; Associate Professor

- JOHN R. NYE *Sociology*
Ph.D., Iowa State University, 1968; Associate Professor
- B. GALE OLESON *Counseling and Guidance*
Ph.D., University of Wyoming, 1953; Professor; Director, University Testing and Counseling Center
- *ROBERT C. O'REILLY *Educational Administration*
Ed.D., University of Kansas, 1962; Professor; Director of Grants Development
- RICHARD F. ORTMAN *Business Administration*
Ph.D., University of Wisconsin 1971; C.P.A.; Assistant Professor (*Accounting*)
- RICHARD A. OVERFIELD *History*
Ph.D., University of Maryland 1968; Associate Professor
- RUSSELL W. PALMER *Religion*
Ph.D., University of Iowa, 1966; Associate Professor
- *D. T. PEDRINI *Psychology*
Ph.D., University of Texas 1958; Professor
- JAMES B. PETERSON *Music*
Ph.D., State University of Iowa, 1953; Professor and Chairman of Department
- *WILLIAM PETROWSKI *History*
Ph.D., University of Wisconsin, 1966; Associate Professor
- DONALD J. PFLASTERER *Counseling and Guidance*
M.Ed., University of Nebraska, 1952; Associate Professor; Dean of Student Personnel
- ROSS A. PILKINGTON *Counseling and Guidance*
Ed.D., University of Nebraska-Lincoln, 1971; Assistant Professor
- *WILLIAM C. PRATT *History*
Ph.D., Emory University, 1969; Associate Professor
- CHERYL H. PREWETT *Industrial Technology*
M.S., Oklahoma State University, 1939; Professor; Chairman of Department
- LEONARD W. PRESTWICH *Business Administration*
(*Marketing*)
Ph.D., Ohio State University, 1957; Professor; Director Retail Management Program
- *PAUL V. PRIOR *Biology*
Ph.D., University of Iowa, 1950; Professor and Chairman of Department
- GEORGE R. RACHFORD *Educational Administration*
Ed.D., Indiana University, 1955; Professor
- JOHN P. RADUCHA *Health, Physical Education and Recreation*
Ed.D., North Texas State University, 1970; Assistant Professor
- M. N. REDDY *Civil Engineering*
Ph.D., Oklahoma State University, 1965; Associate Professor
- HAROLD J. RETALLICK *Geography*
Ph.D., Clark University, 1950; Professor
- *HARRY W. REYNOLDS, JR. *Political Science and Public Administration*
Ph.D., University of Pennsylvania, 1954; Professor
- *ROY M. ROBBINS *History*
Ph.D. University of Wisconsin, 1929; Emeritus Professor
- STEPHEN P. ROBBINS *Business Administration*
(*Management*)
Ph.D., University of Arizona, 1971; Assistant Professor
- MICHAEL J. ROCKLER *Secondary Education*
Ph.D., University of Minnesota, 1969; Assistant Professor

- WILBUR F. ROGERS *Civil Engineering*
Ph.D., Pennsylvania State University, 1970; Registered Professional Engineer; Associate Professor
- *WILLIS P. ROKES *Business Administration*
(*Business Law and Society*)
J.D., University of Utah, 1951; Ph.D., Ohio State University 1959; C.L.U.; C.P.C.U.; Professor
- *RONALD W. ROSKENS *Educational Administration*
Ph.D., University of Iowa, 1958; Professor and Chancellor of the University of Nebraska at Omaha
- MARK O. ROUSSEAU *Sociology*
Ph.D., University of North Carolina, 1971; Assistant Professor
- GENE E. RUSSELL *English*
Ph.D., University of Wisconsin, 1971; Assistant Professor
- EDWARD J. SADLER *Secondary Education*
Ed.D., University of Nebraska-Lincoln, 1969; Associate Professor
- HARRY L. SASLOW *Psychology*
Ph.D., University of Pittsburgh, 1959; Associate Professor of Child Health (Pediatrics), College of Medicine (Joint Appointment)
- *GORDON SCHILZ *Geography*
Ph.D., Clark University, 1948; Professor and Chairman of Department
- DAVID C. SCOTT *Political Science and Public Administration*
Ph.D., University of Iowa, 1948; Professor and Chairman of Department
- JAMES W. SELEE *Educational Experimentation and Development*
Ed.D., University of Colorado, 1964; Professor
- HENRY SERENCO *Art*
M.F.A., Alfred University, College of Ceramics 1970; Assistant Professor
- ROGER S. SHARPE *Biology*
Ph.D., University of Nebraska-Lincoln, 1968; Associate Professor
- *JOHN F. SHRODER, JR. *Geography*
Ph.D., University of Utah, 1957; Associate Professor
- ROBERT B. SIMPSON *Sociology*
Ph.D., Washington University, 1970; Assistant Professor
- DAVID SIROTA *Business Administration (Real Estate)*
Ph.D., University of Arizona, 1971; Associate Professor
- *KEITH P. SMITH *Mathematics*
Ph.D., Iowa State University, 1966; Associate Professor
- PAUL J. STAGEMAN *Chemistry*
Ph.D., University of Nebraska-Lincoln, 1963; Professor
- ELROY J. STEELE *Economics*
Ph.D., State University of Iowa, 1957; The Frederick W. Kayser Professor and Chairman of Department
- JACQUELINE D. ST. JOHN *History*
Ph.D., University of Oklahoma, 1969; Associate Professor
- JUSTIN D. STOLEN *Economics*
Ph.D., University of Illinois, 1969; Associate Professor
- DALE A. STOVER *Religion*
Ph.D., McGill University, 1967; Associate Professor
- *FRED STRIDER *Psychology*
Ph.D., University of Nebraska-Lincoln, 1961; Associate Professor of Medical Psychology, College of Medicine (Joint Appointment)
- DANIEL M. SULLIVAN *Chemistry*
Ph.D., University of Nebraska, 1972; Assistant Professor

DAVID M. SUTHERLAND	Biology
Ph.D., University of Washington, 1967; Associate Professor	
TOMMY R. THOMPSON	History
Ph.D., University of Maryland, 1972; Assistant Professor	
RICHARD GARY THURMAN	Chemistry
Ph.D., University of Arizona, 1971; Assistant Professor	
GAYLORD H. TODD	Foreign Languages
Ph.D., University of Minnesota, 1970; Associate Professor	
*A. STANLEY TRICKETT	History
Ph.D., The Victoria University of Manchester, England, 1935; Professor	
KEITH K. TURNER	Economics
Ph.D., University of Nebraska-Lincoln, 1968; Associate Professor	
WILLIAM T. UTLEY	Political Science
M.A., University of Arkansas, 1936; Professor; Director, Public Affairs Institute; Dean, College of Continuing Studies	
PHILIP E. VOGEL	Geography
Ph.D., University of Nebraska, 1960; Professor	
BLAINE WARD	Educational Foundations
Ed.D., University of South Dakota, 1969; Associate Professor	
*RALPH M. WARDLE	English
Ph.D., Harvard University, 1940; Foundation Professor	
*FLOYD T. WATERMAN	Educational Experimentation and Development
Ed.D., Columbia University, 1965; Professor; Chairman of Department; Director, Center for Urban Education	
ALLEN THOMAS WEBER	Biology
Ph.D., University of Wisconsin, 1970; Assistant Professor	
*WAYNE WHEELER	Sociology
Ph.D., University of Missouri, 1959; Professor	
*RICHARD L. WIKOFF	Psychology
Ph.D., Oklahoma State University, 1965; Associate Professor	
JAMES WILLIAMS	Psychology
Ph.D., University of London, 1956; Professor of Psychophysiology in Psychiatry and Physiology, Research Professor of Surgery, College of Medicine (Joint Appointment)	
MARY E. WILLIAMSON	Speech
M.A., Columbia University, 1950; Assistant Professor	
CHARLES M. WILSON	Educational Administration
Ed.D., University of Arkansas, 1969; Assistant Professor	
R. WAYNE WILSON	Business Administration (Law)
J.D., University of Illinois, 1947; Associate Professor	
JAMES K. WOOD	Chemistry
Ph.D., Ohio State University, 1969; Assistant Professor	
JAMES M. WOOD	Special Education (Speech Pathology)
Ph.D., University of Utah, 1966; Professor	
RAYMOND A. ZIEBARTH	Secondary Education
Ph.D., University of Minnesota, 1963; Professor and Chairman of Department	
LUCILLE ZELINSKY	Social Work
M.S.W., Wayne University, Detroit, 1947; Assistant Professor	

* Member, Graduate Faculty, University of Nebraska System

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:

Department or Area	Minor Only	Master of Arts	Master of Science	Other
Art	x			
Biology		x	x	
Business Administration				MBA
Chemistry	x			
Civil Engineering			x	
Economics		x	x	
Education				
Educational Foundations	x			
Elementary and Early Childhood Education		x	x	
Secondary Education		x	x	
Counseling and Guidance				
Agency Counseling		x	x	
Elementary Counseling		x	x	
Secondary Counseling		x	x	
College Student Personnel Services		x	x	
Special Education				
Reading			x	
Teaching the Deaf			x	
Teaching the Emotionally Disturbed			x	
Teaching the Mentally Retarded		x	x	
Speech Pathology		x	x	
Educational Administration and Supervision				Ed.S.
Elementary Administration		x	x	
Secondary Administration		x	x	
Experimentation and Development				
Urban Education			x	
Health, Physical Education and Recreation	x			
English		x		
Foreign Languages				
French	x			
German	x			
Spanish	x			
Geography		x	x	
History		x		
Mathematics		x	x	
Physics	x			
Political Science		x	x	
Psychology		x		
Educational Psychology			x	
Industrial Psychology			x	
Public Administration				MPA
Social Work				MSW
Sociology		x		
Applied Sociology			x	
Speech		x		

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 ATGSB 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)

Registration Deadlines	Testing Dates
March 28, 1973	April 28, 1973
May 16, 1973	June 16, 1973
September 20, 1973	October 27, 1973
November 8, 1973	December 8, 1973
December 19, 1973	January 19, 1974
January 23, 1974	February 23, 1974
March 27, 1974	April 27, 1974
May 15, 1974	June 15, 1974

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.

ACCREDITED STANDING

The University of Nebraska at Omaha is fully accredited by the North Central Association of College and Secondary Schools, the National Council for Accreditation of Teacher Education 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 Urban Universities, the Association of American Colleges, the National University Extension Association, the American Association of University Women, the Council of Graduate Schools in the United States, the Midwest Conference on Graduate Study and Research, the Association of University Evening Colleges, the Adult Education Association of the United States, 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 1949. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College.

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 for election by 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 UN-O 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. Harl Jarmin, Dr. Bruce Kirchhoff, Dr. Orville Menard, Dr. David Sirota, Dr. Ralph Wardle, Dr. Charles Wilson; Dean Elton S. Carter, Chairman; and Mr. Jack Hohensee, 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 Herbster, 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 abnormally 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 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 ATGSE 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 adviser, 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 a 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 pro-

posed 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 written 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 of undergraduate credit 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 upon recommendation of the major adviser if the major is concerned, the minor adviser if the minor is concerned, and the approval of the Dean 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 be 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 convenience 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.

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

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 report of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Graduate Dean. Time spent in the military service of the United States may be excepted in the application of this rule.

QUALITY OF WORK

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

A grade of "D" or below in either the major or minor area is considered a failing grade and the student receiving such a grade will AUTOMATICALLY be dropped from the degree program. The student thus dropped must secure the approval of the COGNIZANT GRADUATE PROGRAM COMMITTEE or his adviser as the spokesman for the committee in order to take course work as a non-degree student and he may NOT be a candidate for the degree unless reinstated by the Academic Standards and Curriculum Committee when recommended by the Graduate Dean.

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

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 he is registered for credit. Incompletes should only be given if the student has already substantially completed the major requirements of the course.

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

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

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

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 course 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.

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 "F" after the eighth week of the semester.

REQUIRED PROCEDURE FOR GRADUATE STUDENTS

1. File two official transcripts of undergraduate credits (and graduate, if any), an application for admission form (and the ATGSB scores if applicable) with the Director of Admissions. You will be notified by mail of your admission to 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 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: (Undergraduate)

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

Resident of Nebraska	\$ 10.00
Non-resident	25.00

Graduate College Matriculation Fee:

Payable upon enrollment in the Graduate College	\$ 10.00
---	----------

Tuition, Undergraduate and Graduate:

Resident of Nebraska—per credit hour	\$ 17.00
Non-resident—per credit hour	46.00

Charges are assessed for each hour enrolled. The Board of Regents has approved this tuition charge 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.

Audit Fee:

The Audit (not for credit) fee is set at one-half of the Resident tuition rate. Registration for audit requires the permission of the instructor, and is subject to available class space after credit registration ends.

Special Instructional Fees:

Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the Head of the Music Department for any full-time students who are music majors or minors.)

One semester credit hour	\$ 55.00
Two semester credit hours	75.00
Three semester credit hours	95.00
Non-credit, 8 lessons	45.00
Non-credit, 16 lessons	65.00
TV Classroom (3 credit hours and materials)	75.00

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

General Fees:

Full-time students (12 credit hours or more) per semester	\$ 30.00
Part-time students (less than 12 hours) per semester	15.00
Summer Sessions (per session)	15.00

General fees are assessed to every student each semester, except that summer session students who complete registration for both sessions at the initial registration period will be assessed the fee only once.

A portion of the general fee has been earmarked by the Board of Regents for the support of the Student Activities. The Chancellor, the Vice Chancellor for Educational and Student Services, and the Director of Business and Finance of the University, with the advice and recommendations of the Student Activities Budget Commission, will establish budget authorization and administer expenditure practices in accordance with Regents' policies which apply to all funds collected by the University in the name of the Board of Regents of the University of Nebraska.

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

Special Service Fees:

Cooperative Education (if taken for non-credit)	\$ 50.00
Continuing Engineering Studies—Professional Studies— Development Degree Program	
Initial application	25.00
Attainment of 300 credit units (additional)	25.00
Attainment of 600 credit units (additional)	25.00
Attainment of 900 credit units (additional)	25.00
Attainment of 1200 credit units (additional)	25.00

Deferred Tuition Payments

(if approved by Student Financial Aid Office)	5.00
Transcript of Academic Record—per copy	1.00
Thesis Binding—per copy	6.00
Cap and Gown Rental (to be arranged through the Bookstore)	
Bad Check—per check	3.00

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

Teacher Placement Fees:

Registration Fee	10.00
------------------------	-------

This fee is required before any further service is given. This fee prepares the placement file for the new registrant and updates the file for re-registrant making the file available for office use or mailing to prospective employers. The registration fee is required of all graduates preparing for teacher certification.

Vacancy Bulletin Fee & Postage Cost	
3rd class mailing	5.00
1st class mailing	12.50
The vacancy bulletin will not be mailed unless the registration fee is paid.	
Credential Fee	
Preparation of credentials	10.00
No credentials will be sent unless the registration fee and the credential fee has been paid.	
Late Fees and Penalties:	
Late Registration (day or evening classes)	5.00
Late Examination (each course)	5.00
Late Payment of Tuition Billing	10.00
Reinstatement of Cancelled Registration	10.00
Replacement of ID/Activity Card	5.00
Change of Class Schedule (per change)	5.00
Deposits:	
Key—(per key with authorization)—refundable	1.00
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 date for fall term for on-campus registration.	
Testing Fees:	
Credit by examination—per course	25.00
American College Testing (ACT)—on scheduled dates	6.50
ACT additional charge, if specially scheduled	4.00
College Level Examination Program (CLEP)—at national rates	
There will be no additional charge to record any academic credit granted from the results of the CLEP examinations. Anyone interested in testing for credit by examination should contact the Counseling and Testing Office, Room 213, Administration Building.	
Counseling and Testing:	
Generally, no fees are charged to 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 2 weeks elapsed	75%
Withdrawal before 3 weeks elapsed	50%
Withdrawal before 5 weeks elapsed	20%
Withdrawal after 5 weeks elapsed	0
SUMMER SESSIONS (5 WEEK 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	20%
Withdrawal after 2nd week	0

CREDIT COURSES (8 WEEK SESSION) EVENING, SUMMER OR SPECIAL CONTRACT

Withdrawal before first official day of each session	100%
Withdrawal before 1st week elapsed	75%
Withdrawal before 2 weeks elapsed	50%
Withdrawal before 3 weeks elapsed	20%
Withdrawal after 3 weeks elapsed	0

NON-CREDIT AND SPECIAL COURSES

(10 Weeks or More)

Withdrawal before classes start	100%
Withdrawal before 1st week elapsed	50%
Withdrawal before 2 weeks elapsed	20%
Withdrawal after 2 weeks elapsed	0

(Less than 10 Weeks)

Withdrawal before classes start	100%
Withdrawal before 2nd class	50%
Withdrawal after 2nd class	0

RESIDENT STUDENTS

A student's right to classification as a resident for purpose of registration in a state educational institution must be determined under the provisions of Nebraska Revised Statutes of 1943, Sec. 85-502 (R.S. Supp., 1965). (See General Catalog.) Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar's Office.

DEGREE PROGRAMS

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

Master of Arts or Master of Science Degree

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

- Option I. A 30 semester-hour program (maximum of 6-hour thesis credit included) as determined by the cognizant Graduate Program Committee.
- Option II. A 36 semester-hour non-thesis program as determined by the cognizant Graduate Program Committee.

Master of Business Administration Degree

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

Master of Public Administration Degree

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

Master of Social Work

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

Specialist in Education Degree

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

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

831M Advanced Sculpture	3 hours
PREREQ: Art 331 and permission	
Advanced work in area of student's choice, with facilities for oxy-acetylene, arc welding, and general metal working.	
841M Advanced Painting	3 hours
PREREQ: Art 341 and permission	
Practical instruction in oil painting and related medias. 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.	
851M Advanced Printmaking	3 hours
Intaglio process stressing technical proficiency in the various media.	
861M Advanced Ceramics	3 hours
PREREQ: Art 361 and permission	
Advanced problems in the techniques of ceramics.	
831V Graduate Sculpture	3 hours
PREREQ: Art 431 and permission	
Advanced problems in a particular sculpture media.	
841V Graduate Painting	3 hours
PREREQ: Permission and 12 credit hours of painting	
More complex problems in the oil medium and related material.	
851V Graduate Printmaking	3 hours
PREREQ: Art 451 and permission	
Advanced problems in the printmaking area with particular attention to the intaglio technique.	

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 complete the Master of Arts degree with a major in biology the candidate must present 30 hours of graduate work in biology to include credit in thesis (a maximum of 6 hours), a minimum of 2 hours in seminar, and at least 22 hours of appropriate courses to be determined by the student and his faculty committee. The present research interests of the faculty members include animal behavior, animal physiology, bryology, ecology, embryology, entomology, fresh water biology, histology, ichthyology, invertebrate zoology, microbiology, ornithology, plant anatomy, plant biosystematics, plant morphology, plant physiology, vertebrate systematics, herpetology, biology of vertebrate reproduction, and vertebrate anatomy.

The candidate must pass a final oral examination.

Master of Science

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

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

The candidate must pass a final written comprehensive examination.

Course Descriptions

834L Ecology	4 hours
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.	
844L Morphology of Lower Plants	4 hours
PREREQ: Biology 145	
A lecture and laboratory course which covers the ecology, morphology, and evolutionary trends of algae, fungi, and bryophytes.	
853L Flora of the Great Plains	3 hours
PREREQ: Biology 145	
The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants, found in the Great Plains.	

- 854L Morphology of Higher Plants 4 hours
 PREREQ: Biology 145
 A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends.
- 863L Plant Anatomy 3 hours
 PREREQ: Biology 145
 A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants.
- 873L Fauna of the Great Plains 3 hours
 PREREQ: Biology 145, 175
 A survey of the common animal groups found in the Great Plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands.
- 874L Histology 4 hours
 PREREQ: Biology 175, and a course in vertebrate anatomy, or permission of instructor
 Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance.
- 884L Embryology 4 hours
 PREREQ: Biology 175 and a course in vertebrate anatomy
 An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gametogenesis through organogenesis as revealed by a study of selected vertebrate embryos and fetuses.
- 814M Cellular Biology 4 hours
 PREREQ: Biology 145 and 175, organic chemistry, or permission of the instructor
 This course is a comprehensive study of the structure and function of plant and animal cells.
- 818M Limnology 4 hours
 PREREQ: Biology 145, 175, and organic chemistry
 A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a fresh water environment.
- 823M Organic Evolution 3 hours
 PREREQ: Biology 214, Lecture and discussion only
 A study of organic evolution in terms of evidences which support the theory and the mechanisms involved in the process.
- 827M Animal Behavior (same as Psychology 827M) 3 hours
 PREREQ: Biology 175 and Psychology 101 or permission. Lecture only.
 Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit.
- 833M Bryology 3 hours
 PREREQ: Biology 344 or permission of the instructor
 A course in the identification, classification, ecology, and distribution of bryophytes.
- 834M Ichthyology 4 hours
 PREREQ: Biology 175
 A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American freshwater fishes.
- 843M Mycology 3 hours
 PREREQ: Biology 145
 A lecture and laboratory course in the collection, cultivation, identification and life cycle of fungi.
- 844M Plant Physiology 4 hours
 PREREQ: Biology 145, organic chemistry, or permission of the instructor
 A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism, and mineral nutrition.

- 854M Taxonomy of Vascular Plants 4 hours
 PREREQ: Biology 145
 Classification of vascular plants with particular emphasis on the evolution and adaptations of selected families with discussion of experimental techniques used by the taxonomist.
- 864M General Bacteriology 4 hours
 PREREQ: Biology 145, organic chemistry, or permission
 The nature of microorganisms, their life processes, their biologic and economic significance.
- 872M Experimental Endocrinology 2 hours
 PREREQ: A course in endocrinology or concurrent registration in Biology 873M, or permission of instructor.
 Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience.
- 873M Endocrinology 3 hours
 PREREQ: Organic Chemistry, Vertebrate Anatomy, and Physiology or permission of the instructor
 A survey of endocrine physiology stressing the regulative and integrative roles of hormones, the control of hormone secretion, and mechanisms of hormone action.
- 874M Animal Physiology 4 hours
 PREREQ: Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of instructor
 A comprehensive study of animal function emphasizing mechanisms of regulation and control.
- 878M Vertebrate Zoology 4 hours
 PREREQ: Biology 175
 A study of the general biology of the subphylum Vertebrata including the morphology, anatomy, physiology, and ecology of vertebrate representatives.
- 888M Invertebrate Zoology 4 hours
 PREREQ: Biology 175
 A field-oriented course emphasizing the taxonomy and natural history of the invertebrate animals.
- 894M Entomology 4 hours
 PREREQ: Biology 175
 The study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution.
- 898M Ornithology 4 hours
 PREREQ: Biology 175
 An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification, and identification with emphasis on North American groups.
- 801V Seminar in Biology 1 hour
 A study of current research in any of the divisions of biology. Graduate students in biology must complete this course twice for credit.
- 802V Problems in Biology 2 hours
 PREREQ: Sufficient work in biology and the ancillary sciences necessary to pursue adequately the area of investigation involved
 Research investigation in various areas of biology.
- 813V Environmental Biology 3 hours
 PREREQ: Graduate standing in Biology and/or permission of instructor
 A study of the recent advancements in environmental biology, concentrating on the areas of population dynamics, community interaction and ecosystems theory. Readings, discussions, laboratory, and a written report.
- 816V Experimental Genetics 3 hours
 PREREQ: Biology 214
 Lecture and laboratory involving experimentation with organisms such as *Drosophila* spp., *Neurospora* spp., *E. Coli* and T4 phage.

- 818V Biosystematics** 3 hours
 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.
- 823V Biomorphology** 3 hours
 PREREQ: Graduate standing in Biology. Permission of the instructor.
 A study of the morphology and anatomy of organisms in relation to support, circulation, response, excretion and reproduction. Lecture, laboratory, selected readings, and a written report.
- 833V Advanced Topics in General Physiology** 3 hours
 PREREQ: Graduate standing in Biology and permission of instructor.
 Studies in general physiology including such topics as photophysiology, hormonal regulation, regulation of metabolic pathways, temperature-related phenomena, and cytogenetic physiology. Lecture, laboratory, and and written report.
- 873V Environmental Physiology** 3 hours
 PREREQ: General physics, algebra, animal physiology, or permission of instructor. Graduate
 A detailed study of selected dynamic environmental factors and mechanisms of physiologic adaptation by organisms of various taxa.
- 899 Thesis** 1-6 hours
 Independent research project written under the supervision of a faculty committee.

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 Minter, Leonard Prestwich, Willis P. Rokes;

Associate Professors Origen J. James, Yousseff I. Kouatly, David Sirota, 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 give the students an understanding of the principles of management, marketing and finance and a proficiency in the use of accounting, 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 responsibilities 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	Corporation Finance
Accounting (2 courses)	Statistics
Marketing	Business Law, or
Management	Legal Environment of Business

Special graduate courses are available to students to remove deficiencies in the foundation core. These courses include BA 811L, BA 812L, BA 813L, BA 814L, BA 815L and BA 816L, Econ 800L; the foundation courses cannot be used to meet the 36 semester hours required for the M.B.A. degree. The quality of work in the foundation core should be the same as for degree requirements. A "B" average must be maintained, a final grade of "C" in two courses will require action by the MBA committee before the student is permitted to reenroll, and a grade of "C" in a third course or a grade of "D" or below in any course will result in automatic dismissal from the MBA program.

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

To be admitted to the MBA program, applicants should have a minimum undergraduate grade point average of 2.5, a minimum of 2.75 in undergraduate courses in the foundation core (A=4), and a minimum of 470 on the Admission Test for Graduate Study in Business.

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

Econ. 821V	Micro-Economic Theory	3 hours
Econ. 823V	Macro-Economic Theory	3 hours
BA 840V	Marketing Policies	3 hours
BA 830V	The Environment of Management	3 hours
BA 850V	Financial Management	3 hours
BA 820V	Accounting for Management Control	3 hours
	or	
BA 821V	Accounting Theory	3 hours
BA 800V	Quantitative Analysis	3 hours
BA 801V	Business and Society	3 hours
BA 831V	Human Behavior in Organization	3 hours

Emphasis in specific areas can be achieved by selection of nine hours of approved electives, three hours of which may be outside of business administration. Elective courses include the following:

BA 802V	Research Methods in Business	3 hours
BA 803V	Business Information Systems	3 hours
BA 805V	Business Conditions Analysis	3 hours
BA 825V	Seminar in Accounting	3 hours
BA 835V	Seminar in Management	3 hours
BA 841V	Promotional Policies	3 hours
BA 845V	Seminar in Marketing	3 hours
BA 851V	Security Analysis	3 hours
BA 852V	Seminar in Investment Management	3 hours
BA 855V	Seminar in Finance	3 hours
BA 890V	Independent Research	3 hours

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

Course Descriptions

- 811L Survey of Accounting** 3 hours
 This course is for the graduate student who has not taken accounting principles at the undergraduate level. The uses of accounting for purposes of control and decisions by managers, shareowners, creditors and others.
- 812L The Legal Environment of Business** 3 hours
 Examination of the business institution as it exists within a legal system shaped by societal elements.

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 212 or College Algebra Techniques of analysis and interpretation of quantitative business data; descriptive measures, statistical inference, correlation and time-series.	
800V Quantitative Analysis	3 hours
PREREQ: BA 313 or BA 816L The study of quantitative techniques and models and their application in business decision making.	
801V Business and Society	3 hours
PREREQ: BA 223, BA 446 or BA 812L Exploration of the diversity of societal forces and pressures which produce continued transition in the system of American capitalism.	
802V Research Methods in Business	3 hours
PREREQ: BA 816L or equivalent A study of quantitative research techniques most often used in Business Research. The student will become familiar with current research studies in the functional areas of business.	
803V Business Information Systems	3 hours
PREREQ: BA 131 or Equiv. This course is intended to provide students in business with an understanding of how computer-based information systems are constructed and of the opportunities and problems associated with this activity.	
805V Business Conditions Analysis	3 hours
PREREQ: Econ 800V or Econ 202 This course is concerned with the measurement and evaluation of general 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.	
820V Accounting for Management Control	3 hours
PREREQ: ACC 201 and ACC 202; or BA 811L Emphasis on maximum utilization of accounting information by management.	
821V Accounting Theory	3 hours
PREREQ: BA 820V A study of the history and development of accounting theory and its relationship to accounting practice and tax regulations.	
825V 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.	
830V The Environment of Management	3 hours
PREREQ: MGT 349 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.	

831V Human Behavior in Organization	3 hours
PREREQ: BA 349 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.	
835V Seminar in Management	3 hours
PREREQ: BA 830V and BA 831V A student participation course emphasizing current issues and problems in the areas of management theory and operation.	
840V 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.	
841V 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.	
845V Seminar in Marketing	3 hours
PREREQ: BA 840V 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 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 813L 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.	
890V 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

835L Physical Chemistry	(I) 3 hours
PREREQ: Chemistry 226, 226L, 240, 240L; Physics 212; Math 196 A presentation of selected topics from the areas of quantum mechanics, classical thermodynamics, statistical mechanics.	

- 835L Physical Chemistry Laboratory (I) 1 hour
PREREQ: Chemistry 226, 226L, 240, 240L; Physics 212; Math 196
Chemistry 335L should be taken concurrently with Chemistry 335.
- 836L Physical Chemistry (II) 3 hours
A presentation of selected topics from the areas of classical thermodynamics, statistical mechanics and chemical kinetics.
- 836L Physical Chemistry Laboratory (II) 1 hour
Chemistry 336L should be taken concurrently with Chemistry 336.
- 840L Instrumental Analysis (II) 2 hours
PREREQ: Chemistry 336 (may be taken concurrently.)
Instrumental methods of quantitative analysis. Normally taken concurrently with Chemistry 840L Lab.
- 840L Instrumental Analysis Laboratory (II) 2 hours
PREREQ: Chemistry 840L (may be taken concurrently)
Laboratory to accompany Chemistry 840L. Normally taken concurrently with Chemistry 840L.
- 823M Advanced Organic Chemistry (I) 3 hours
PREREQ: Chemistry 226, 336
An advanced lecture course in modern theories and special topics in organic chemistry.
- 824M Advanced Organic Chemistry (II) 3 hours
PREREQ: Chemistry 226, 336
An advanced lecture course in Organic Chemical Reactions.
- 850M Advanced Inorganic Chemistry (I) 3 hours
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.
- 851M Advanced Inorganic Preparations (I, II) 1-2 hours
PREREQ: Chemistry 450 (may be taken concurrently)
Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques.
- 865M Biochemistry (I) 3 hours
PREREQ: Chemistry 226, 226L and 336, 336L
Chemistry and biochemistry of protein, carbohydrates and lipids. Enzymes and energetics. Biological oxidation. Not open to students with credits in 365 or 366. Chemistry 865M must be taken concurrently with Chemistry 865M.
- 865M Biochemistry Laboratory (I) 1 hour
Biochemistry Laboratory for Chemistry 865M. Chemistry 865M and 865M Lab must be taken concurrently.
- 866M Biochemistry (II) 3 hours
PREREQ: Chemistry 865M, 865M Lab
Continuation of Chemistry 865M. Chemistry 866M Lab must be taken concurrently with 866M.
- 866M Biochemistry Laboratory (II) 1 hour
PREREQ: Chemistry 865M, 865M Lab
Biochemistry laboratory for Chemistry 866M.
- 899M Chemistry Problems (I, II) 1-3 hours
PREREQ: Permission of instructor
Independent student research.
- 899V Research in Chemistry Arranged
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.

CIVIL ENGINEERING (C.E.)

Graduate Faculty Members:

Professors Joseph V. Benak, Richard E. Gibson, James Q. Hossack, Cheryl H. Prewett;

Associate Professors Harold L. Davis, Bart Dennehy, Lawrence E. Ehlers, William B. LeMar, M. N. Reddy, Wilbur F. Rogers

Master of Science

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

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

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

Fluid Mechanics	Structural Design
Soil Mechanics	Advanced Math for Engineers (or Differential Equations)
Structural Analysis	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

- 832M Open Channel Flow 3 hours
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.
- 833M Hydrology 3 hours
PREREQ: GE 331
The hydrologic cycle, precipitation, infiltration and soil moisture, run-off, rainfall-runoff relationships, factors affect, the utilization and conservation of water resources.
- 834M Ground Water Hydrology I 3 hours
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.
- 842M Construction Management 3 hours
PREREQ: Permission
Estimating and bidding, scheduling (CPM, PERT), contracts, bonds and insurance cost control systems, equipment utilization, codes and zoning.

844M Structural Analysis III	3 hours
PREREQ: CE 344	
Analytic methods in the design of industrial buildings, tall buildings and space frames.	
850M Soil Mechanics II	3 hours
PREREQ: CE 449 or equivalent	
Complex problems in soil mechanics; the interrelationship of theory, sampling and testing; performance studies.	
865M Construction Cost and Controls	3 hours
PREREQ: Permission	
Construction estimating, accounting, cost control; construction scheduling, computer applications.	
867M Form Design and Steel Erection	2 hours
PREREQ: CE 360	
Design of concrete forms; design of temporary structures for steel erection.	
870M Prestressed Concrete	3 hours
PREREQ: CE 360	
Design of prestressed members, continuous beams, slabs, and circular prestressing. Load factors. ACI code.	
873M Matrix Methods of Structural Analysis	3 hours
PREREQ: CE 344	
Computer applications for beams, frames, trusses, grids, and space forms using flexibility and stiffness methods.	
881M Plastic Analysis	3 hours
PREREQ: CE 344	
Plastic collapse. Upper and lower bound theorem. Analysis of beams and frames. Deflection. Secondary design problems. Repeated Loading.	
882M Plastic Analysis II	3 hours
PREREQ: CE 481	
Design of braced bents and unbraced bents for gravity and combined loads. Design checks and secondary considerations. Multi-story frames.	
885M Urban Systems I	3 hours
PREREQ: 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.	
800V Structural Design for Dynamic Loads	3 hours
PREREQ: Graduate standing and permission	
Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques.	
801V Special Engineering Problems	1-6 hours
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 in 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.	
802V Thin Shell Structures	3 hours
PREREQ: Graduate standing and permission	
General theory of thin shells; analysis and design of hyperbolic paraboloids, folded plates, cylindrical shells, shell walls, and domes.	
803V Foundation Engineering	3-6 hours
PREREQ: 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.	

814V Bridge Design	3-9 hours
PREREQ: CE 470, permission	
The theory and design of slab, T-beam, box girder, prestressed, welded girder, composite, orthotropic and suspension bridges.	
815V Advanced Hydraulics	3 hours
PREREQ: Graduate standing and permission	
Advanced studies in hydraulics including hydrometry, similitude, urban hydrology, geohydrology, hydraulic transients, and loose boundary hydraulics.	
816V Advanced Structural Engineering	1-12 hours
PREREQ: Graduate standing and permission	
Contemporary developments in the analysis and design of space-spanning and space-enclosing structures, including appropriate mathematical and mechanical methods of analysis.	
817V Advanced Sanitary Engineering	3-6 hours
PREREQ: Six hours of undergraduate-level courses in Sanitary Engineering	
Advanced study of biological and chemical processes in sanitary engineering; activated sludge and trickling filter processes; anaerobic digestion, ion exchange and electro dialysis; wet and dry combustion; introduction to industrial waste treatment processes; and special problems in unit processes of waste treatment.	
830V Sedimentation and Erosion	3 hours
PREREQ: 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.	
831V River Mechanics	3 hours
A study in concepts 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.	
898V Civil Engineering Special Projects	1-6 hours
PREREQ: Graduate standing and permission	
Individual students may select a special semester project in some phase of civil engineering which requires advanced original thinking and the application of advanced analytical and/or experimental techniques in its completion.	
899 Graduate Research (Thesis)	3-6 hours

Industrial Engineering

890M Operation Research I	3 hours
PREREQ: IE 304 or Math 353	
Probability models; programming decision theory; queuing theory; optimal cost solutions.	
896M Operation Research II	3 hours
PREREQ: IE 490	
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.	

General Engineering

893M Advanced Mechanics of Materials	3 hours
PREREQ: GE 242, Math 235	
Stresses and strains at a point; theories of failure; pressure vessels and spinning disks; torsion, bending and shear; elastic energy methods.	
894M Advanced Dynamics	3 hours
PREREQ: GE 330, Math 235	
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.	

- 895M Advanced Fluid Mechanics 3 hours
 PREREQ: GE 331, Math 235
 Ideal and real fluid flow; Eulerian and Lagrangian equations of motion; potential theory; conformal transformations; turbulent flow; boundary layer theory.
- 804V Experimental Stress Analysis 3 hours
 PREREQ: GE 493 or permission
 Investigation of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, lacquer, photo-elasticity and membrane analogy.
- 810V Applied Elasticity 3 hours
 PREREQ: GE 493, CE 343, Math 235
 Stresses, strains, Hook'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 3-6 hours
 PREREQ: GE 493, 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, domes, translation shells of double curvature; bending theory of domes, cylindrical shells; general theory of thin shells; analysis of thin, folded plates.
- 813V Theory of Elastic Stability 3 hours
 PREREQ: GE 493, 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.
- 818V Similitude 3 hours
 PREREQ: Permission
 The principles and illustrations of dimensional methods, similarity and model testing, distorted and dissimilar models. Applications to structures, fluid flow, heat transmission, electromagnetic theory, acoustics and chemical engineering, differential equations and similarity.
- 819V Engineering Vibrations 3 hours
 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 3 hours
 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 3 hours
 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 with a major in Economics must have the equivalent of 15 undergraduate semester hours in Economics.

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

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

Master of Science

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

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 18 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 (II) 3 hours
 PREREQ: Econ. 315
 Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.
- 812M Urban Geography (Same as Geography 812M) 3 hours
- 813M Geography of Manufacturing (same as Geo. 813M) 3 hours
- 818M Collective Bargaining (I, II) 3 hours
 PREREQ: Econ 315
 A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract.
- 821M Advanced Firm and Industry Theory (I) 3 hours
 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.

- 823M Advanced Macro-Theory** (II) 3 hours
 PREREQ: Econ 322
 A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical paths being explored.
- 825M History of Economic Thought** 3 hours
 (Medieval through Classical Period) PREREQ: Econ 201, 202
 Tracing the evolution of economic thought from the Medieval through the Classical period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.
- 827M History of Economic Thought** 3 hours
 (Neo-classical to Modern Period) PREREQ: Econ 201, 202
 Tracing the evolution of economic thought from the Neo-classical to the contemporary period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.
- 830M Econometrics** (I) 3 hours
 PREREQ: BA 313, Econ 201 and 202 or equivalent
 Introduction to the study and application of modern statistical and mathematical methods to economic models.
- 836M Comparative Economic Philosophy** (I) 3 hours
 PREREQ: Econ 320
 The mainstreams of political and economic philosophy are examined in order to understand both the political basis of comparative economic systems as well as to judge the political consequences of changing economic policy. The emphasis is prior to the twentieth century.
- 837M Contemporary Economic Philosophy** (II) 3 hours
 PREREQ: Econ 322
 A continuation of Economics 436 with emphasis upon contemporary writers and thinkers.
- 843M Geography of Manufacturing (same as Geography 843M)** 3 hours
- 845M Monetary Theory and Policy** (I) 3 hours
 PREREQ: Econ 345
 The role of money in the stabilization at high levels, production, employment, income and prices. Emphasis is on contemporary problems.
- 855M State and Local Finance** 3 hours
 PREREQ: Econ 201 and 202
 An inquiry into the facts, techniques, principles, theories rules, and policies shaping, directing, influencing, and governing the spending, taxing debt, and utilization of scarce resources for state and local governments.
- 866M International Economic Development** 3 hours
 PREREQ: Econ 201-202
 Problems relating to early stages of economic development; investment priorities, mobilizing savings and policies and programs are studied.
- 880M Managerial Economics** 3 hours
 PREREQ: Econ 320
 Economics applied in decision making, with special emphasis on application of the micro theory. It aims to bridge the gap between theory and managerial practice, stressing the measurement of theoretical concepts, collection and evaluation of information and comparison of alternatives.
- 805V Economic Education** (I) 3 hours
 Open to any graduate student with no previous college work in economics who is teaching K-12. Not open to majors in Economics. A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish the public school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles.
- 806V Economic Education** (II) 3 hours
 PREREQ: Econ 805V
 A continuation of Econ 805V.
- 807V Economic Education Institute** (S) 3 hours
 PREREQ: Permission by 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.

- 810V Economic Security** 3 hours
 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 arguments and proposals. Particular attention will be given, especially through student research, to programs aimed at reducing urban poverty.
- 816V Seminar in Labor Economics** 3 hours
 PREREQ: Six hours of credit in undergraduate labor economics or permission
 A study and investigation of current developments and issues involving labor institutions, labor relations, wage theories and employment policies. Local and regional studies will be stressed
- 820V Seminar in Micro Theory** (I) 3 hours
 PREREQ: Econ 320
 This seminar develops modern micro-economic theory with emphasis on utility functions and demand, production functions and cost, price and non-price policy of the firms, market and multi-market equilibrium. Emphasizes theoretical methods and techniques as well as specific content.
- 821V Micro-economic Theory** (I, II, S) 3 hours
 PREREQ: Graduate standing in the College of Business Administration
 Microeconomics for graduate students of Business. Economic analysis of the business firm and its environments, with emphasis on market structure, production possibilities, and cost factors. Recent developments in the theory of the firm and operations research will be investigated.
- 822V Seminar in Macro Theory** (II) 3 hours
 PREREQ: Econ 322
 A brief review of the standard national income accounting and the more recent development of the flow-of-funds analysis. A study of the evolution and establishment of the Keynesian economics, its relationship to the classical macro-theory and the many refinements of the Keynesian model. To learn some extensions of the Keynesian theory, especially in connection with inflation, investment, and economic growth. A development of understanding of recent work in fiscal and monetary theory.
- 823V Macro-economic Theory** (I, II, S) 3 hours
 PREREQ: Graduate standing in the College of Business Administration
 A study of modern income theory and policy. The development of modern aggregate theory is reviewed. Recent fiscal and monetary policies regarding employment, inflation, investment, and economic growth are examined. Problems of applying policy in a dynamic economic environment are emphasized.
- 829V Research Methods** (I) 3 hours
 PREREQ: Permission of Instructor
 The application of specific mathematical and statistical procedures to business and economic research.
- 830V Econometrics** (II) 3 hours
 PREREQ: Permission of Instructor
 The study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics.
- 845V Seminar in Money and Banking** (II) 3 hours
 PREREQ: Six hours in undergraduate monetary courses or permission of the instructor
 Original research and writing of papers on basic problems in the area of money and banking. Required of all Economics majors.
- 865V Seminar in International Economics** 3 hours
 PREREQ: Econ 365 or 466 or permission of instructor
 Original research and critique of current issues in international economic theory, policy and institutions
- 880V Independent Study in Topics on Urbanism** 1 hour per sem. to 3
 PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences
 Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. (Also listed under Geography, Political Science and Sociology.)

- 881V Urban Seminar in Metropolitan Planning and Development 3 hours
(See Geography 881V)
- 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 prob-
lems 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 theoretical basis for the analysis of urban eco-
nomic problems with emphasis upon the policy alternatives applicable
toward their possible solution.
(Also listed under Geog. 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 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. (Also listed under Geog-
raphy)
- 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 tutorial supervision
- 898V Urban-Regional Research (I, II, S) Each 3 hours
899V 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.
- 899 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.
- 940 Seminar in American Economic History to 1865 (See History) (I) 3 hours
(W. R. Petrowski)
- 941 Seminar in American Economic History Since 1865 (See History) (II) 3 hours
(W. R. Petrowski)

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

- 819M Mental Health (I, II, S) 3 hours
A general survey of principles of mental health; a study of social and
emotional adjustments.

- 881M Principles of Adult Education (I, S) 3 hours
An introduction to the study of adult education as a major development
in contemporary America. The course surveys the major forms and
problems of adult education and the foremost agencies providing pro-
grams.
- 882M Adult Group Leadership (II, S) 3 hours
A study of adult groups in modern society and the characteristics of
effective leadership in all types of groups.
- 886M Audio-Visual Materials in Education (I, II, S) 3 hours
The selection, care, organization and utilization of materials and equip-
ment of instruction.
- 887M Preparation of Instructional Material (I, II, S) 3 hours
A basic course in the production of inexpensive audio-visual materials
for the classroom. Graphic, photographic and auditory materials are
considered, including such instructional material as slides, filmstrips,
dramatization and exhibits.
- 889M Administration of the Instructional Materials Center (I, II) 3 hours
A course designed for students who wish to prepare themselves for the
administration of an educational media program within an elementary
and/or secondary school.
- 898M Growth and Learning Problems of Disadvantaged 3 hours
A course designed to help students develop a basic understanding of
child growth and development and learning problems of disadvantaged
children and youth.
- 800V Special Studies (I, II, S) 3 hours
A series of intensive courses especially for teachers in service—scheduled
as regular seminars, or workshops, according to purpose.
- 801V Introduction to Research (I, II, S) 3 hours
To acquaint the beginning graduate student with the nature and sig-
nificance of research; to enable the student to read, evaluate and apply
research results and techniques; to give some understanding of the
meaning and spirit of research; to give some experience in studying and
preparing research reports.
- 802V History and Philosophy of Education (I, II, S) 3 hours
An intensive survey of the historical and philosophical foundations of
American education; special emphasis is placed on the economic, indus-
trial, cultural, and social conditions that have shaped or are influencing
American education.
- 803V Communication for Teachers of the Disadvantaged 3-6 hours
An intensive interdisciplinary course dealing with the nature of the
disadvantaged pupil, communication skills for teachers, and group inter-
action for the instructional teams working with low-income pupils.
- 804V Comparative Education (I, S) 3 hours
An intensive study of the educational systems of selected nations found
in Europe, Asia, Latin America, and Africa; particular emphasis is
placed on a total study of the society selected and its resulting educa-
tional adaption and future educational directions.
- 805V Seminar in Education (I, II, S) 3 hours
Systematic study of the problems and developments which have current
significance to American or foreign education; individual student and
group analysis emphasized.
- 806V Education and Society (I, S) 3 hours
An inter-disciplinary study of the problems that modern society is con-
fronted with and the role(s) that education has in helping society meet
its challenges; particular emphasis on education policy and decision
making processes.
- 808V Topics in Audio-Visual Education (II, S) 3 hours
A study of selected topics involving principles, problems, trends and
materials in audio-visual education.
- 809V The Urban School 3 hours
An analysis of the societal and institutional processes and problems
which have bearing upon the education of children in urban settings. A
study of the urban school.
- 810V Research Project 1-3 hours
Individual or group study and analysis of specific problems in schools.

- 848V Practicum Internship 2-8 hours
 PREREQ: Teacher Corps
 An integration of community and school experiences with special reference to the disadvantaged pupil. Each semester focuses upon a curriculum area of the junior high and elementary schools—language arts, social studies, evaluation procedures, classroom control and curriculum are the foci.
- 899 Thesis (I, II) 1-6 hours
 Independent research project written under the supervision of an adviser.

ELEMENTARY AND EARLY CHILDHOOD EDUCATION (EED)

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. Selected Cognate Courses 6-9 hours
- II. Required Courses 21 hours
 FED 801V, Introduction to Research
 FED 802V, History and Philosophy of Education
 EED 819V, Diagnostic and Corrective Instruction
 EED 840V, Innovations and Trends in Elementary Education
 EED 843V, Introduction to Curriculum Planning—Elementary
 EED 844V, Seminar in Elementary Education
 EDAD 846V, Administration and Supervision in Elementary Schools
- III. Selected Courses 6-9 hours
 To be determined by student and his adviser

Course Descriptions

- 820M Literature for Children and Youth (I, II, S) 3 hours
 Selection, evaluation and guidance in various types of literature for the elementary and junior high school levels.
- 827M Current Trends in Early Childhood Education 3 hours
 A survey of the problems involved in setting up and implementing a program for the child from birth to eight years of age. Recent trends will be investigated as they apply to the above activity.
- 800V Special Studies (I, II, S) 3 hours
 A series of intensive courses especially for teachers in service—scheduled as regular seminars, or workshops, according to purpose.
- 810V Research Project (I, II, S) 1-3 hours
 Individual or group study and analysis of specific problems in schools.
- 819V Diagnostic and Corrective Instruction (I, S) 3 hours
 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.
- 820V Improvement of Instruction in Elementary 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 in instruction, which are characteristic of these programs.

- 821V Improvement of Instruction in Elementary Mathematics 3 hours
 An examination of the philosophy, content, methods, and materials of modern mathematics programs for the elementary school. The needs and backgrounds of the students enrolled during the semester are given special consideration.
- 840V Innovations and Trends in Elementary Education 3 hours
 PREREQ: FED 801V
 Designed as an advanced study for the purpose of exploring current trends and developments within the various subject matter areas of the elementary school.
- 843V Introduction to Curriculum Planning—Elementary (I, S) 3 hours
 PREREQ: FED 801V
 A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate content and methods of curriculum reorganization.
- 844V Seminar in Elementary Education 3 hours
 PREREQ: FED 801V
 A study of educational problems as they relate to the elementary school, to be taken in the last nine hours in the program for the Master of Science degree.
- 845V Seminar in Supervision of Student Teachers—Elementary (I, II) 3 hours
 PREREQ: 2 years of teaching experience
 Designed for experienced teachers who are or may be serving as cooperating teachers, and who desire to study student teaching, its aims, procedures, objectives, trends and developments.
- 870V Practicum in Elementary Education 3-6 hours
 PREREQ: Permission of adviser and of ad hoc committee for non-certified
 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 full-time 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.)
- 871V Advanced Practicum in Elementary Education 3 hours
 PREREQ: Permission of adviser and of ad hoc committee for non-certified students and satisfactory completion of EED 870V, Practicum in Elementary Education.
 Advanced practicum will demand an increased responsibility of the student for one semester and a concomitant increase in variety of experiences, based upon his individual needs. EED 871V is a continuation and refinement of the quality of teaching based upon his performance during his first practicum experience (EED 870V).
- 899 Thesis 1-6 hours
 Independent research project required of all students taking Master of Arts degree. See major adviser.

SECONDARY EDUCATION (SED)

Graduate Faculty Members:

Professors Paul Ackerson, 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 no 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 five areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. Course names or types included in each area are indicated where appropriate.

AREA	HOURS	
	Min	Max
I. SED Core	6	9
SED 825V—Seminar in Secondary Education		
SED 830V—Emerging School Curriculum		
SED 833V—Analysis of Teacher Behavior		
II. Research	3	*
Research Methods, Statistical Methods, Tests & Measurements		
III. Professional Specialization	3	*
Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies		
IV. Related Professional Courses	*	*
V. Related Academic Courses	*	18

Master of Arts

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

AREA	HOURS	
	Min	Max
I. SED Core	6	9
SED 825V—Seminar in Secondary Education		
SED 830V—Emerging School Curriculum		
SED 833V—Analysis of Teacher Behavior		
II. Research	3	*
Research Methods, Statistical Methods, Tests & Measurements		
III. Professional Specialization	3	*
Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies		
IV. Related Professional Courses	*	*
V. Related Academic Courses	*	12
VI. Thesis	6	6

*Minimums or maximums are determined by adviser.

Course Descriptions

- 880M Principles of Vocational Education 3 hours
A study of the basic philosophy underlying vocational education and the principles and practices in the various fields.
- 885M Coordination Techniques for Vocational Education 3 hours
Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator and/or vocational coordinator, with special emphasis upon local administration of the part-time cooperative program and analysis of the laws and regulations governing this program.
- 800V Special Studies (I, II, S) 3 hours
A series of intensive courses especially for teachers in service—scheduled as regular seminars, or workshops, according to purpose.
- 810V Research Project (I, II, S) 1-3 hours
Individual or group study and analysis of specific problems in schools. Typical problems may include surveys, school finances, transportation, school building construction, maintenance and operation, curriculum, and pupil personnel.
- 815V Practicum Teaching-Community and Junior College 3 hours
The Practicum Experience is intended for graduate students who may desire to become instructors at the Community or Junior College level. The eligible student will be placed in a practicum situation in a recognized teaching field under the supervision of a certificated Community or Junior College instructor and a faculty supervisor from the College of Education.
- 825V Seminar in Secondary Education 3 hours
Intensive study of problems of secondary education. Critical analysis of current research and related literatures; group and individual work on problems of group interest and relevance to secondary education.
- 830V Emerging School Curriculum (II, S) 3 hours
Designed to provide the student with understanding of the nature and trends in secondary school curriculum development, and the principles and practices in curriculum planning.
- 832V The Junior High School (I, S) 3 hours
This course is designed to acquaint the graduate student with the philosophy, objectives and functions of the junior high school program.
- 833V Analysis of Teacher Behavior 3 hours
Emphasis is placed upon current observational systems for Analysis of Teacher Behavior in a classroom setting. Specific topics include in-depth instruction to Inter-action Analysis, Micro-teaching, Non-verbal Behavior and Simulation. Student Proficiency in these observational systems using video-tape equipment is stressed.
- 835V Improvement of Instruction of Secondary School Speech 3 hours
Exploration of the implications and contributions of recent methodological and empirical research to instructional improvement in speech. Investigation of the speech process and the contribution of other disciplines to speech instruction.
- 837V Implements of Instruction of Secondary School Foreign Language 3 hours
This course is designed especially for the teacher who is interested in the improvement of instruction in Foreign Language. The course will encompass a whole range of opportunities for improvement of instruction of such languages, but will concentrate on current developments in audio-lingual-visual programs that have implications for the classroom teacher.
- 840V Improvement of Instruction in English: Language and Linguistics 3 hours
A study of new developments in the teaching of English and of research findings available to improve the teacher's knowledge of language and linguistics.
- 841V Improvement of Instruction of Secondary School English—Literature and Rhetoric 3 hours
A study of new developments in the teaching literature and rhetoric, including the application of linguistics to the teaching of English.
- 845V Improvement of Instruction of Secondary School Social Studies 3 hours
Designed especially for teachers who are interested in the improvement of instruction of the social studies. Will encompass the whole range of opportunities available for the improvement of social studies instruction; emphasis will be concentrated on current developments that have implications for the classroom teacher.

- 847V Materials Laboratory for the Social Studies** 3 hours
Designed to acquaint social studies teachers with new materials in the Social Studies. Students will develop criteria for the evaluation of materials from recent curriculum projects.
- 850V Improvement of Instruction of Secondary School Mathematics** 3 hours
This course is designed for those students who wish to extend their knowledge of the secondary school mathematics curriculum and their skill in employing instructional techniques for teaching mathematics. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.
- 852V Foundations in Business Education** 3 hours
Designed to develop a deeper and broader understanding of business education; to identify and define business education and to examine its past, present, and future role in the total education pattern of our 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 860V.
- 872V Improvement of Instruction in Science, Earth Science Curriculum Project** 3 hours
A continuation and extension of the concepts considered in SED 862V.
- 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** (S) 3 hours
Designed for teachers of business education to develop a better understanding of the purposes, philosophy, current practices and trends in business education.
- 877V Vocational Curriculum Construction** 3 hours
A course designed for teachers, supervisors, coordinators, and administrators of vocational education. The course includes principles, needs, factors, and trends that should be considered in developing a vocational education curriculum.

- 899 Thesis** (I, II, S) 1-6 hours
Required of all students taking Master of Arts degree, see major adviser for information.
- 935 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 936 and Speech 955.) (B. Brillhart)

COUNSELING AND GUIDANCE (COUN)

Graduate Faculty Members:

Professors Richard Blake (Chairman), B. Gale Oleson;
Associate Professors Harl Jarmin, Donald Pflasterer;
Assistant Professors Robert Butler, Scott Harrington, Ross A. Pilkington

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

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

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

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 3 hours
FED 801V, Introduction to Research

- I. Selected Cognate Courses 6-15 hours
These courses are selected in accordance with student's particular area of interest.
- III. Counseling and Guidance Courses 22-28 hours
COUN 890M, Principles of Guidance and Counseling
COUN 820V, Introduction to Counseling Theories
COUN 822V, Occupational and Educational Information
COUN 823V, Appraisal Techniques in Counseling and Guidance
COUN 824V, Counseling Practices
COUN 825V, Counseling Practicum
COUN 829V, Community Involvement for Urban Counselors
Selected additional courses in the department.

Specialization in School Counseling—Secondary Level*

- I. Foundation Course 3 hours
FED 801V, Introduction to Research
- II. Selected Cognate Courses 6-15 hours
These are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.
- III. Counseling and Guidance Courses 19-28 hours
COUN 890M, Principles of Guidance and Counseling
COUN 820V, Introduction to Counseling Theories
COUN 822V, Occupational and Educational Information
COUN 823V, Appraisal Techniques in Counseling and Guidance
COUN 824V, Counseling Practices
COUN 825V, Counseling Practicum
Selected additional courses in the department.

Specialization in School Counseling—Elementary Level*

- I. Foundation Course 6 hours
FED 801V, Introduction to Research
PSYCH 851V, Advanced Educational Psychology
- II. Selected Cognate Courses 6-12 hours
These are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.
- III. Counseling and Guidance Courses 19-27 hours
COUN 890M, Principles of Guidance and Counseling
COUN 820V, Introduction to Counseling Theories
COUN 831V, Child Assessment in Elementary School Guidance
COUN 832V, 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 3 hours
FED 801V, Introduction to Research
- II. Selected Cognate Courses 6-15 hours
These courses are selected in accordance with the student's particular area of interest. Most often these courses are taken in the departments of Sociology and Psychology.
- III. Counseling and Guidance Courses 21-27 hours
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 Aids, Placement and Student Activities.

Course Descriptions

- 880M Guidance Skills for Secondary Teachers 3 hours
PREREQ: Senior or Graduate.
Course designed to familiarize educators with guidance activities of schools, the educator'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.

- 890M Principles of Guidance 3 hours
The Introductory Course for students majoring in the Counseling and Guidance Department. A study of basic principles underlying guidance and counseling. (Non-counseling Majors are encouraged to take Coun 880M, Guidance Skills for Secondary Teachers or Coun 892M, Guidance in the Elementary School.)
- 891M Group Evaluation Techniques 3 hours
A survey course dealing with types of measurement and evaluation in the instructional programs of elementary and secondary schools. Utilization of standardized group tests, construction of classroom tests, use of the cumulative record, the basic sociometric and projective techniques are included in this course.
- 892M Guidance in the Elementary School 3 hours
A study of the teacher's role in elementary school guidance with emphasis on activities in the classroom. No credit for guidance majors.
- 800V Special Studies in Counseling and Guidance 3 hours
PREREQ: Permission of department
Intensive courses scheduled as regular seminars or workshops, according to purpose.
- 810V Research Project in Counseling and Guidance 3 hours
PREREQ: Permission of instructor
Individual or group study and analysis of specific problems in counseling and guidance.
- 820V Introduction to Counseling Theories 3 hours
PREREQ: Coun 890M
Study of contemporary theories of counseling, the counseling process and methods.
- 821V Organization and Administration of Guidance Services 3 hours
PREREQ: Coun 890M or 892M
Study of organizational patterns and administrative practices in guidance and counseling programs.
- 822V Occupational and Educational Information 3 hours
PREREQ: Graduate
The nature and use of occupational and educational information. The process of vocational choice.
- 823V Appraisal Techniques in Counseling and Guidance 3 hours
PREREQ: Coun 890M, Fed 801V
Utilization of standardized and nonstandardized appraisal techniques in counseling and guidance.
- 824V Counseling Practices 3 hours
PREREQ: Coun 820V, 822V, 823V
The process of establishing a counseling relationship, utilizing different approaches appropriate to client concerns, and developing basic counseling skills.
- 825V Counseling Practicum 2-4 hours
PREREQ: Coun 824V and permission of department
Counseling experience under the supervision of a Practicum instructor of the University.
- 826V Guidance Internship 2-3 hours
PREREQ: Coun 824V and permission of department
Field experience in an approved guidance program under the supervision of a qualified counselor and a guidance professor of the University.
- 827V Group Techniques in Guidance 2-3 hours
PREREQ: Coun 890M and permission of instructor.
The group process with emphasis on the experiential aspect.
- 829V Community Involvement for Urban Counselors 3 hours
PREREQ: Coun 890M and permission of instructor
An experiential involvement in the ecology of the Urban Disadvantaged. The student will have extended field experiences in the urban area as well as seminar-type activities.
- 831V Child Assessment in Elementary School Guidance 3 hours
PREREQ: Coun 890M and Fed 801V
Methods and techniques for identification of the elementary child as a unique individual.

832V Counseling Elementary School Children	3 hours
PREREQ: Coun 820V, 831V	
A study of the methods and techniques applicable in counseling young children.	
833V Elementary School Counseling Practicum	4 hours
PREREQ: Coun 832V and permission of department	
Counseling in the elementary setting under the supervision of counseling professor of the University.	
835V Elementary Counseling Internship	6 hours
PREREQ: Coun 832V and permission of department	
Field experience in all elementary counseling program under the supervision of a counseling professor and appropriate in-school personnel.	
839V Guidance Services and the Disadvantaged Youth	3 hours
PREREQ: Coun 820V and 824V	
A study of the methods and techniques in counseling disadvantaged youth.	
945V College Student Personnel Internship	6 hours
PREREQ: Permission of instructor	
This course is designed to provide practical work experience under supervision in various areas within student personnel services.	
899 Thesis	1-6 hours
PREREQ: Permission	
Independent research project written under the supervision of an adviser.	
805U Theories and Studies in Occupational Educational Information	2-3 hours
PREREQ: Coun 822V	
Advance study of theories and research related to vocational development, and current research in the construction and use of occupational and educational information.	
810U Advanced Studies in Counseling	2-3 hours
PREREQ: Coun 820V and 825V or 835V	
An intensive study of selected counseling theories, methods and research.	
812U Counseling With Parents	2 hours
PREREQ: Coun 825V or Coun 832V or permission of instructor.	
A course emphasizing techniques used in working with families.	
815U Advanced Counseling Practicum	2-3 hours
PREREQ: Coun 825V or 836V and permission of department	
Continuation of Practicum in Counseling.	
818U Guidance and Counseling Seminar	2 hours
PREREQ: Permission of department	
The consideration of topics having current relevance to guidance and counseling.	
819U Research Project in Counseling and Guidance	2-3 hours
PREREQ: Permission of department	
Research study on a problem in the area of guidance and counseling.	

SPECIAL EDUCATION (SPED)

Graduate Faculty Members:

Professors Donald Cushenbery, 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 proficiencies 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 433, Speech Reading and Auditory Training; SPED 445, Phonetics; SPED 450, Speech Correction in the Elementary and Secondary Schools; SPED 475, Language Development of Exceptional Children.
3. For those students who wish to work toward special state certification in the schools, 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. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
 - I. *Required Courses*
FED 801V Introduction to Research
SPED 853V Advanced Problems
SPED 870V Seminar in Special Education
SPED 846V Speech Evaluation
SPED 848V Advanced Audiology
 - II. *Elective Courses*
Students may choose any of the courses in the area numbered 800V or above.
5. *Thesis:*
Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of his committee.

With a Major in Mental Retardation

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

1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the 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 and 815V 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 433, 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 841V, Advanced Studies in Disorders of Articulation
- SPED 842V, Advanced Studies in Disorders of Voice
- SPED 843V, Advanced Studies in Disorders of Rate and Rhythm
- SPED 844V, Advanced Studies in Disorders of Aphasia and Related Problems
- SPED 846V, Speech Evaluation
- SPED 847V, Neurophysiology
- SPED 848V, Advanced Audiology
- SPED 851V, Advanced Practicum Speech
- SPED 852V, Advanced Practicum Speech
- SPED 853V, Advanced Problems
- SPED 870V, Seminar in Special Education

II. Elective Courses

- SPED 845V, Current Practice in Speech Pathology
- SPED 850V, Basic Practicum Speech
- SPED 855V, Alaryngeal Speech Rehabilitation
- SPED 856V, Speech Problems of Cerebral Palsied Children
- SPED 840M, Learning Disabilities
- SPED 821M, Teaching of Speech to the Deaf I
- SPED 822M, Teaching of Speech to the Deaf II
- SPED 823M, Teaching of Language to the Deaf I
- SPED 824M, Teaching of Language to the Deaf II

*III. Elective Courses in Related Areas

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

Major in Teaching the Deaf

- | | |
|--|----------|
| **I. Required Courses | 38 hours |
| SPED 820M, History Education and Guidance of the Deaf | |
| SPED 821M, Teaching Speech to the Deaf I | |
| SPED 822M, Teaching Speech to the Deaf II | |
| SPED 823M, Teaching Language to the Deaf I | |
| SPED 824M, Teaching Language to the Deaf II | |
| SPED 833M, Speech Reading and Auditory Training | |
| SPED 834M, Teaching School Subjects to the Deaf I | |
| SPED 835M, Teaching School Subjects to the Deaf II | |
| SPED 837M, Basic Audiology | |
| SPED 838M, Auditory and Speech Mechanisms | |
| FED 801V, Introduction to Research | |
| SPED 806V, Teaching the Exceptional Child | |
| SPED 870V, Seminar in Special Education (or FED 802V, 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 Mentally Retarded

The Master of Science degree with a major in mental retardation provides broad study investigations for students who wish to improve and expand competency areas necessary for greater individual proficiency in teaching mentally retarded children. State certification in 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 levels.

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 taken 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 Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.
4. Each candidate, having successfully completed thirty hours of course work and practicum, and enrolled for their last six hours, will be required to pass a final oral examination prior to his/her being recommended for the M.S. degree with a major in Mental Retardation.
5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

I. Required Courses	30 hours
FED 801V, Introduction to Research	
SPED 806V, Teaching Exceptional Children	
SPED 860M, Introduction of the Mentally Subnormal Child	
SPED 863M, Curriculum for Mentally Retarded Children	
SPED 864M, Methods and Materials for Teaching Mentally Retarded	
SPED 872V, Basic Observation and Student Teaching	
SPED 873V, Advanced Observation and Student Teaching	
SPED 870V, Seminar in Special Education	
One course surveying language difficulties (or other equivalent course)	
SPED 807V, Introduction to Speech and Hearing Disorder	
SPED 875M, Language Development of Exceptional Children	
One course concerning evaluation techniques (or other equivalent course)	
SPED 895V, Diagnosis of Learning Disabilities	
Psych 832V, Testing and Measurement	
Psych 831M, Psychological and Educational Testing	
II. Electives	6 hours
SPED 840M, Learning Disabilities	
SPED 880M, Emotional Development	
SPED 885M, Introduction to the Physically Handicapped	
SPED 866V, Vocational Training of the Mentally Retarded	
SPED 871V, Parent-Professional Relationship in Special Education	
SPED 886V, Methods and Materials for Teaching Crippled	
SPED 890U, Administration and Supervision of Special Education	

*Major in Teaching the Emotionally Disturbed***

I. Required Courses	21 hours
FED 801V, Introduction to Research	
SPED 806V, Teaching the Exceptional Child	
SPED 880M, Emotional Development of Children and Youth	
SPED 881M, Classroom Techniques for Behavior Control	
SPED 870V, Seminar in Special Education	
SPED 872V, Basic Observation and Student Teaching of Special Education	
SPED 873V, Advanced Observation and Student Teaching of Special Education	

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

II. Electives	15 hours
SPED 871V, Parent-Professional Relationship in Special Education	
SPED 896M, Clinical Observation of the Multi-Handicapped	
SPED 840M, Learning Disabilities	
Psych 845M, Personality Theories	
Psych 851V, Advanced Educational Psychology	
Psych 857V, Behavior Modification	
(NPI) 851, Developmental Psychology	
(NPI) 852, Group Dynamics	

Course Description

812M Reading Diagnosis and Remediation for the Elementary Classroom Teacher	3 hours
PREREQ: EED 420 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 their remediation.	
820M History: Education and Guidance of the Deaf	(I) 2 hours
History of trends in deaf education culminating in current problems, 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
Methods and practicum in teaching speech to the deaf child; special emphasis on tactual, visual and auditory techniques.	
822M Teaching of Speech to the Deaf II	(II) 2 hours
Continuation of Special Education 421; focus on various types of speech learning problems found in a population of deaf children.	
823M Language Development of Hearing Impaired Children	(I) 3 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.	
833M Speech Reading and Auditory Training	(II) 2 hours
History of development of speech (lip) reading; methods and practicum 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 audiologic assessment including the case 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; casual factors of delayed speech and language development; evaluative 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 personality.	

- 843M Speech Pathology I: Voice and Articulation (II) 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 (I) 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 (I, S) 3 hours
Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech.
- 850M Speech Correction in the Elementary and Secondary Schools (I) 3 hours
PREREQ: Graduate Standing and 6 hours Speech Pathology courses
Speech correction programs as related to goals of public education for school age children; role and responsibilities of the speech clinician; current practices in evaluation, case load selection and scheduling; special emphasis on methods and materials appropriate to a variety of facilities.
- 851M Basic Clinical Practicum in Speech Pathology (I, II, S) 3 hours
PREREQ: Graduate Standing and permission
Minimum of 45-60 clock hours per credit hour; supervised observation and practice in speech and hearing center; diagnostic interviews, therapy sessions, lesson plans, weekly practicum summaries.
- 860M Introduction to The Mentally Subnormal Child (I, II, S) 3 hours
Nature and educational needs of children and youth who are mentally subnormal; definitions; prevalence and types of children in educational programs; history; trends.
- 863M Curriculum for the Mentally Retarded (I, II, S) 3 hours
The mentally retarded child as an educable or trainable individual; an investigation of the practices and problems in curriculum development for the mentally subnormal child; preschool through vocational; identification of needs and goals and determination of content.
- 864M Methods and Materials for Teaching the Mentally Retarded (I, II, S) 3 hours
The retarded child as he relates to a variety of educational processes designed for his learning needs; methodology and teaching materials. Practice in the design and implementation of curriculum units, preschool through vocational; consideration of programs for the trainable and educable programs.
- 870M Introduction to Teaching the Gifted (S) 3 hours
Introduction to techniques and materials for identifying and helping to understand the specific development needs of gifted pupils and guidance services appropriate for them; understand types of learning tasks and how to evaluate achievement with them; analysis of filmed demonstration lessons appropriate to the specific needs of gifted pupils.
- 875M Language Development of Exceptional Children (I) 3 hours
This course is designed to cover a brief history of linguistic science; an investigation of the language development of children; a discussion of the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children.
- 880M Emotional Development of Children and Youth (I, 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 3 hours
PREREQ: Graduate standing
This course explores the various theories on behavior modification and discusses the application of these theories to the classroom. It is particularly appropriate for those teachers who teach a class for the emotionally disturbed or have a number of behavioral problems in their classes.
- 885M Introduction to the Education of the Physically Handicapped (I) 3 hours
Nature and educational needs of children and youth who are physically handicapped; definitions; prevalence and types of children in educational programs; history; trends.

- 896M Clinical Observation of the Multi-Handicapped (II) 3 hours
To familiarize students with the multi-disciplinary team approach to treatment of handicapped children in the clinical setting.
- 800V Special Projects (I, II, S) 1, 2 or 3 hours
A series of intensive courses especially for teachers in-service scheduled as regular seminars, or workshops, according to purpose.
- 806V Teaching the Exceptional Child (I, II, S) 3 hours
PREREQ: Required course for all Special Ed. Majors
Identification of exceptional children with respect to educational opportunities; current concepts and goals of special education; specific consideration of educational programs for children who are gifted, mentally retarded, speech handicapped, acoustically handicapped, orthopedically handicapped, visually handicapped, or motivationally disadvantaged; survey of trends and professional opportunities.
- 807V Introduction to Speech and Hearing Disorders (II) 3 hours
A survey of the disorders of speech, hearing and language; normal development of communication skills; the professions involved in the rehabilitation of the communicatively impaired individual.
- 810V Research Projects (I, II, S) 3 hours
Individual or group study and analysis of specific problems in schools.
- 813V Diagnostic and Remedial Instruction in Reading (I, 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.
- 814V Measurement and Evaluation of Reading (I, 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 reading center (i.e., initiating and accepting referrals, forming evaluation schedules, administering appropriate evaluative devices, writing case reports and establishing follow-up sessions).
- 815V Clinical Practice in Reading (I, II, S) 3 hours
PREREQ: Permission
A laboratory-oriented course for advanced students in reading which will provide them with practicum training in the use of proper remedial reading techniques in order that they might qualify as reading specialists.
- 816V Reading Problems of the Disadvantaged Child 3 hours
Investigation relating to causes of reading difficulties of the culturally disadvantaged; methods and materials; demonstration of individual and group reading remediation procedures.
- 841V Advanced Studies in the Disorders of Speech Articulation (I) 3 hours
Types and causes of articulation disorders; rationale for case selection; S-R-L syndrome; special emphasis of rehabilitation procedures associated with individual involvements; practicum.
- 842V Advanced Studies in the Disorders of Voice (I) 3 hours
Types and causes of voice disorders; rationale for case selection; cleft palate; special emphasis on rehabilitation procedures associated with individual involvements; practicum.
- 843V Advanced Studies in the Disorders of Rate and Rhythm (II) 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 involvement; practicum.
- 844V Advanced Studies in the Disorders of Aphasia and Related Problems (II) 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.
- 845V Current Practices in Speech Pathology 3 hours
PREREQ: SPED 850M
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 emphasizes operant articulatory and language remedial procedures.

- 846V Speech Evaluation: Methods and Practicum** (I) 3 hours
 PREREQ: Graduate Standing and 6 hours of Speech Pathology
 Tests and procedures for evaluating individuals with speech disorders; principles in differential diagnosis and report writing; observation during evaluation periods in speech and hearing centers.
- 847V Neurophysiology of Speech** (I) 3 hours
 Basic structure and function of the organs of hearing and speech; theories of cortical involvements, central and peripheral nervous systems as they affect communication; individual projects.
- 848V Advanced Audiology** (II) 3 hours
 PREREQ: 437 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 medico-legal problems discussed.
- 850V Basic Clinical Practicum in Speech Pathology** (I, II, S) 3 hours
 PREREQ: 451
 This course in practicum follows the course 451 which is the student's first experience in clinical practicum. It is designed to give graduate students who need more than one semester of closely supervised practicum an opportunity to get this experience before being placed in a setting away from the University.
- 851V Advanced Clinical Practicum in Speech Pathology** (I, II, S) 3 hours
 PREREQ: 451 and Graduate Standing
 This course provides the student with an "externship" experience for clinical practicum in either a school or a medical setting. A minimum of 45 clock hours of work is required for each credit hour per semester.
- 852V Advanced Clinical Practicum in Speech Pathology** (I, II, S) 3 hours
 PREREQ: 551
 The second semester of advanced clinical practicum. The student is placed in an "externship" setting with a cooperating master clinician. A minimum of 45 clock hours of work is required for each credit hour per semester.
- 853V Advanced Problems in Speech Pathology** (II) 3 hours
 PREREQ: Twenty-four hours Speech Pathology and Graduate Standing
 Students select and investigates three different areas of current concern in Speech Pathology; initial survey, annotated bibliography, presentation of observation and conclusions, seminar discussion of findings. Instructor will base his lectures on topics chosen by students for study; clinical demonstrations of selected voice, speech and language problems.
- 855V Alaryngeal Speech Rehabilitation** (I) 3 hours
 PREREQ: Graduate Standing and 6 hours Speech Pathology courses including voice problems
 Problems of voice and speech rehabilitations for the individual without a functional larynx; social, emotional, and medical considerations as well as clinical procedures for esophageal, pharyngeal and buccal speech; implications for use of artificial larynx; current research pertinent to this area.
- 856V Speech Problems of Cerebral Palsied Children** (II) 3 hours
 PREREQ: SPED 847V
 Identification of types of cerebral palsy by a location of lesion, motor symptomology, and additional handicaps; the role of the speech clinician on the team; types of speech therapy, with special emphasis on the Bobath approach; current research and controversial issues will be discussed.
- 866V Vocational Training of the Mentally Retarded** (II) 3 hours
 Consideration of the following aspects of treatment of the mentally retarded; prevocational 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
 The student will be introduced to community and regional resources which provide service according to the needs of the individual. These resources will constitute activity centers, shelter workshops, diagnostic clinics, recreational facilities, foster care programs, residential centers and others. From these sources will come the expertise in informing the student of program goals, and objectives activities manpower needs and involvement, coordination with related programs, administration of services, financing of services, and priority settings.
- 870V Seminar in Special Education** (I, II, S) 3 hours
 Graduate course primarily for Special Education majors and professional workers in the fields of speech and hearing, teaching the deaf, teaching the mentally retarded, remedial reading and teaching the physically handicapped. Familiarity with philosophy, major literature and practices in each area; student will research and present a paper reflecting his personal professional interests. Discussions, forums, and panels; visiting experts.
- 871V Parent-Professional Relationships in Special Education** (I) 3 hours
 PREREQ: 506
 Professionals dealing with handicapped children become aware that a child's handicap affects the family unit and the community. Conversely, the family and the community influences the child's adjustment to his handicap. This course deals with the development of positive relationships between parents and professionals.
- 872V Basic Observation and Student Teaching in Special Education** (I, II, S) 3 or 5 hours
 Classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.
- 873V Advanced Observation and Student Teaching in Special Education** (I, II, S) 3 or 5 hours
 PREREQ: 872V
 A second semester of classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.
- 886V Methods and Materials for Teaching the Physically Handicapped** (II) 3 hours
 PREREQ: 806V and Intro. to the Education of the Physically Handicapped
 Consideration of the physically handicapped child as his unique exceptionalities require the development of specialized methods and materials designed to meet his learning needs; an investigation of practices and problems involved in methodology and materials; application of methods; development and evaluation of materials; practices in design and implementation of methods and materials; selected observation of programs.
- 895V Diacrosis of Learning Disability** (I, S) 3 hours
 PREREQ: Coun. 491 or equivalent and Graduate Standing
 Special Education teachers are often required to interpret the results of evaluations developed through the use of testing. This course familiarizes the student with the various techniques used for diagnosing or evaluating learning problems.
- 897V Clinical Teaching in Learning Disabilities** 3 hours
 Theoretical and limited practical knowledge of a particular kind of teaching; which is to tailor learning experiences to the unique needs of children who have specific learning disabilities. The student learns of the flexibilities and continuous probing needed for individualized instruction.
- 899 Thesis** (I, II, S) 3-6 hours
 Required of all students taking Master of Arts degree, see major adviser for information.
- 872V Basic Practicum in Special Education** (I, II) 3 hours
 PREREQ: Master's Degree and acceptance in the Ed Spec Program
 This course provides participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student.

873U **Advanced Practicum in Special Education** (II) 3 hours
PREREQ: 872U

A second semester of participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student.

890U **Administration and Supervision of Special Education** (I) 3 hours
PREREQ: Ed. 801V, Ed. Ad. 862V, and Ed. Ad 869V and Admission to the Education Specialist Program

This course provides a concentrated experience in dealing with specific problems in the administration and supervision of special education. The "case study" method will be utilized to develop a systematic approach to problem solving. Real and hypothetical cases will be presented. This course is based on the modern behaviorally oriented science of administration.

911 **Problems of Teaching Reading-Elementary** (I, II, S) 3 hours

An advanced course for elementary and secondary teachers in the principles, practices, and use of instructional materials in the area of reading at the elementary level (Cushenbery)

912 **Problems of Teaching Reading-Secondary** (II, S) 3 hours

An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administration, organization, evaluation, methods and materials for the teaching of reading in each of the content subjects at junior and senior high school levels. (Cushenbery)

917 **Seminar in Organization and Administration of Reading Problems** (I) 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 post-graduate 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. Roskens;

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.

Admission to Candidacy

1. Applicants must have taken nine approved hours with grades of B or better. Students taking course work beyond nine hours do so at their own risk unless such course work has had prior approval.
2. Applicants must have taken either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analogy Examination.
3. Applicants must complete the Admission to Candidacy application which requires reference recommendations and approval of a program by an adviser. This application should be procured immediately upon completion of nine hours and the qualifying examination.

Program Design

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

Major in Elementary Administration and Supervision

- I. Required Courses 15 hours
 - FED 801V Introduction of Research
 - EDAD 835V Foundations of Educ. Admn. & Suprv.
 - EDAD 846V Adm & Suprv in the Elem. School
 - EDAD 840V Practicum I in EDAD
 - EDAD 841V Practicum II in EDAD
- II. Selected courses from the following 12 hours
 - EDAD 810V Research Project in EDAD
 - EDAD 825V Data Processing in EDAD
 - EDAD 830V Seminar in EDAD
 - EDAD 848V Adm & Suprv in Junior High School
 - EDAD 855V School Business Management
 - EDAD 856V School Finance
 - EDAD 860V School Plant Planning and Operation
 - EDAD 861V Organization and Admn of the Physical Plant
 - EDAD 870V Administration and Staff Personnel
 - EDAD 871V Interpersonal Relationships in EDAD
 - EDAD 880V Admn & Suprv of Vocational Education
 - EDAD 881V Urban School Admn.
 - EDAD 890V Administration of Higher Education
 - EDAD 954V School Law
- III. Selected courses to be taken outside of the department with adviser's approval 9 hours

Major in Secondary Administration and Supervision

- I. Required Courses 15 hours
 - FED 801V Introduction to Research
 - EDAD 835V Foundations of Educ. Admn & Suprv.
 - EDAD 847V Adm & Suprv in the Secondary School
 - EDAD 840V Practicum I in EDAD
 - EDAD 841V Practicum II in EDAD
- II. Selected Courses from the following 12 hours
 - EDAD 810V Research Project in EDAD
 - EDAD 825V Data Processing in EDAD
 - EDAD 830V Seminar in EDAD
 - EDAD 848V Adm & Suprv in Junior High School
 - EDAD 855V School Business Management
 - EDAD 856V School Finance
 - EDAD 860V School Plant Planning and Operation
 - EDAD 861V Organization and Admn of the Physical Plant
 - EDAD 870V Administration and Staff Personnel

EDAD 871V	Interpersonal Relationships in EDAD
EDAD 880V	Adm & Suprv of Vocational Education
EDAD 881V	Urban School Admn
EDAD 890V	Admn. of Higher Education
EDAD 954	School Law

- III. Selected courses to be taken outside of the department with adviser's approval 9 hours

Specialist in Education

This outline of program includes the work which might typically constitute the fifth and sixth years of collegiate work. The total course-work 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 Analogy Examination. Scores on the GRE must total at least 1200 and the score of the M.A. must be at the 30th percentile or better.
5. 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).

- I. Core Professional Courses 42-48 hours
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 meet to consider the student's planned program 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 guides of study and practice in elementary, secondary and general administration and supervision as the interests and needs of the student requires.
- 841V **Practicum in Educational Administration and Supervision** 3 hours
PREREQ: EDAD 840V
Continuation of Education 840V. Continued study and practice under guidance in elementary, secondary or general administration and supervision as the needs of the student requires.
- 846V **Administration and Supervision in Elementary Schools** 3 hours
PREREQ: Fed 801V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.
- 847V **Administration and Supervision in Secondary Schools** 3 hours
PREREQ: FED 801V and EDAD 835V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.
- 848V **Administration and Supervision in Junior High School** 3 hours
PREREQ: FED 801V and EDAD 835V
This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.

855V School Business Management	3 hours
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.	
856V School Finance	3 hours
FREREQ: FED 801V and EDAD 835V	
A study of the sources of school financing; local, state and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance.	
860V School Plant Planning and Operation	3 hours
PREREQ: FED 801V and EDAD 835V	
Includes steps in planning the modern school building: site selection, building construction and design; school furniture and equipment; maintenance and operation; rehabilitation; scheduling of work; and custodial care.	
861V Organization and Administration of the Physical Plant	3 hours
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.	
870V Administration and Staff Personnel	3 hours
PREREQ: FED 801V and EDAD 835V	
This course deals with personnel policies, problems, and issues in the following areas: teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations and legal status. Emphasis will be placed upon the techniques of democratic administration.	
871V Interpersonal Relationships in Educational Administration	3 hours
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.	
880V Administration and Supervision of Vocational Education	3 hours
Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor.	
881V Urban School Administration	3 hours
This course is designed to acquaint students of educational administration with urban problems and issues which most significantly affect the administration of city schools.	
890V Administration of Higher Education	3 hours
PREREQ: Admission to graduate study and approval	
A study of the major functions of higher education, with emphasis on the principles involved in organizing and directing the academic program, the activities of the student body, the faculty and staff, personnel policies, financing the program, operating the buildings and grounds and conducting the public relations program.	
800U Seminar in Research Design	
PREREQ: Adm to Ed.S. Program	
A seminar designed to acquaint students with the principles of research design and to provide experience in the application of these principles to problems in Educational Administration.	
801U Advanced Seminar in Educational Administration	3 hours
PREREQ: Admission to Education Specialist Program	
Participation is limited to individuals who have been admitted to candidacy for the Specialist in Education degree with a major in school administration. Emphasis will be placed upon the theory and techniques of administration.	
811U Field Project in Educational Administration	3 hours
PREREQ: Admission to Education Specialist Program and Approval, Department Chairman	
The study of a problem in the area of school administration, and employs the techniques of research.	
954 School Law	3 hours
PREREQ: FED 801V and EDAD 835V	
Considers legal principles and practices which are applicable to public education for public school teachers and administrators. (O'Reilly)	

EDUCATIONAL EXPERIMENTATION AND DEVELOPMENT

Graduate Faculty Members:

Professors James W. Selee, Floyd Waterman (Chairman);
Assistant Professor Walter M. Calinger

The Master of Science degree with a major in urban education is for previously certified teachers at either the elementary or secondary levels.

Major in Urban Education

The Master of Science degree with a major in Urban Education is designed for teachers (secondary and elementary) who are already certified and who have an interest in working with low-income area students. Candidates must hold either a B.S. or B.A. degree and a valid teaching certificate. He must be personally interviewed by a faculty member associated with Urban Education.

The program is designed to help students identify key agencies in the community and to identify the relevant social economic, and teaching problems of low-income area students.

Required Courses	12 hours
FED 801V, Introduction to Research	
FED 806V, Education and Society	
FED 809V, The Urban School	
FED 810V, Research Project	
Recommended Professional Courses	6 hours
COUN 890M, Principles of Guidance	
COUN 892M, Guidance in the Elementary School	
COUN 822V, Occupational Guidance	
COUN 823V, Individual Analysis	
FED 818M, Mental Health in the School	
FED 898M, Meeting the Needs of the Disadvantaged Child	
FED 898V, Growth & Learning Problems of the Disadvantaged	
FED 800V, Special Problems in Urban Education	
FED 805V, Seminar in Education	
SPED 911, Problems in Teaching Reading, Elementary	
SPED 912, Problems in Teaching Reading, Secondary	
SPED 813V, Reading Diagnosis	
SPED 806V, Teaching the Exceptional Child	
SPED 816V, Problems of the Disadvantaged	
Selected Supporting Courses	18 hours
Psychology 831M, Psychological and Educational Testing	
Psychology 833M, Individual Differences	
Psychology 855M, Retardation	
Psychology 859M, Theories of Developmental Psychology	
Psychology 850V, Seminar in Communication Theory	
Psychology 857V, Behavior Modification	
Geography 812M, Urban Geography	
Geography 831V, Cultural Geography	
Geography 865V, Land Use	
Geography 871V, Population Seminar	
Geography 881V, Urban Seminar	
Economics 805V, Economics for Teachers I	
Economics 806V, Economics for Teachers II	
Economics 811M, Government and Labor	
Sociology 802M, Collective Behavior	
Sociology 803M, Advanced General Sociology	
Sociology 810M, The Community	
Sociology 814M, Urban Sociology	
Sociology 815M, American Family Problems	
Sociology 810V, Seminar	
Sociology 811V, Social Prob., esp. of Disadvantaged	
Speech 853M, Seminar in Cross Cultural Communication	
Pol. Sci. 840M, Public Budgeting	
Pol. Sci. 843M, Municipal Administration	

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 9 hours of upper division courses in recreation or permission
Designed to provide a background of information on community recreation with special attention to organization, promotion, and development of recreational programs.
- 863M **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.
- 893M **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.
- 894M **Physiology of 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.
- 828V **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.
- 837V **Improvement of Instruction in Physical Education** 3 hours
An examination and discussion of current programs, content, methods and materials within physical education. Emphasized is the improvement of each individual's teaching in the physical education setting.

- 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.
- 845V **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: English 806V, 808V, 809V, 810V, 820V, 825V, 912, 915.

Course Descriptions

- 815M **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.
- 833M **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.
- 834M **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.

- 848M **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: Eng. 231 or permission
A study of the development of the English drama, exclusive of Shakespeare, from the beginnings to 1642.
- 858M **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.
- 865M **The English Novel** 3 hours
PREREQ: Graduate
The development of the English novel from the beginning to the end of the Victorian period.
- 868M **History of the English Language** 3 hours
PREREQ: Eng. 353 or permission
A study of the internal and external forces which have influenced the development of the English language.
- 872M **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.
- 881M **Literature of the Romantic Period** 3 hours
PREREQ: Graduate
Poetry and prose (excluding the novel) of England from 1798 to 1830.
- 882M **Literature of the Victorian Period** 3 hours
PREREQ: Graduate
Poetry and prose (excluding the novel) of England from 1830 to 1900.
- 895M **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.
- 897M **The American Novel** 3 hours
PREREQ: Graduate
The major American novelists from Hawthorne to the present.
- 898M **The American Drama** 3 hours
PREREQ: Graduate
A general view of the history of the drama and theatre in the United States, especially as related to the main currents of American thought.
- 801V **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.
- 804V **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 twentieth century America.
- 806V **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.
- 808V **Seminar: The English Renaissance** 3 hours
PREREQ Graduate standing or permission
A seminar in a few significant literary figures of the English Renaissance.
- 809V **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).

- 810V **Seminar in Victorian Literature** 3 hours
PREREQ: Graduate
Intensive study of selected nineteenth century English authors and their works.
- 813V **Topical Seminar in English** 3 hours
PREREQ: Graduate
An intensive study of one or more authors, genres, literary movements or literary problems not covered by regular period or genre courses.
- 814V **Seminar: John Milton** 3 hours
PREREQ: Graduate
An intensive seminar in the major works of John Milton and investigation of specific critical and scholarly problems.
- 820V **Seminar in Medieval Literature** 3 hours
PREREQ: Graduate
A study of the rationale and techniques of medieval allegory.
- 825V **Seminar in Chaucer** 3 hours
PREREQ: Graduate and permission
An analysis of the selected works of Chaucer, his sources, and analogues.
- 898V **Independent Study** 3 hours
PREREQ: Graduate
Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the graduate faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently.
- 899 **Thesis** 1-6 hours
- 912 **Seminar in Shakespeare** 3 hours
PREREQ: Graduate
Critical analysis of ten tragedies or ten comedies of Shakespeare. (R Wardle)
- 915 **Seminar in English Literature 1750-1830** 3 hours
PREREQ: Graduate
Studies in English literature of the Age of Johnson and that of the Age of Wordsworth. (R. Wardle)

FOREIGN LANGUAGES

Graduate Faculty Members:

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

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

Course Descriptions

French (FREN)

- 840L **Eighteenth Century French Literature** (II) 3 hours
PREREQ: French 212
Study of the Enlightenment, emphasizing the works of Montesquieu, Voltaire, Rousseau and Diderot.
- 851-852L **Nineteenth Century French Literature** (I, II) 3 hours
PREREQ: French 212 for either 851L or 852L
851L: 1789 to 1848, Lamartine to Michelet, Stendhal, Mérimée, Balzac, Hugo. 852L: 1850-1885, Realism Naturalism Parnesee, Symbolism.
- 800M **Independent Study** (I, II) 1-3 hours
PREREQ: Permission of the instructor
Guided independent study and research under tutorial supervision.
- 805M **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.

- 815M Contemporary French and German Novel(I) 3 hours
PREREQ: Permission
Comparative study of selected contemporary French and German novels.
Cross-listed as German 815M and English 815M.
- 821M Sixteenth Century French Literature(II) 3 hours
PREREQ: Any 300 course in French literature
Literature of the Renaissance, Rabelais, Ronsard, Montaigne.
- 831M Seventeenth Century French Literature(I) 3 hours
PREREQ: Any 300 course in French literature.
The Classical School Descartes, Pascal, Corneille, Molière, Racine, La-Fontaine.
- 851M-852M Twentieth Century French Literature(I, II) 3 hours
PREREQ: For either 851M or 852M, any French 300 course in literature or permission of instructor
851M: Main currents of twentieth century literature from the beginning to 1930. 852M: Continuation to current literary production.
- 860M Pro-Seminar(II) 3 hours
PREREQ: Permission of instructor
A detailed study of narrower phases of French literature, language or culture.
- German (GERM)*
- 800M Independent Study(I, II) 1-3 hours
PREREQ: Permission of the instructor
Guided independent study and research under tutorial supervision.
- 805M 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.
- 815M 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.
- 831M German Literature of the 19th Century(I) 3 hours
PREREQ: German 303
The dramatic, epic and lyric works of nineteenth century German literature.
- 832M German Literature of the 20th Century(II) 3 hours
PREREQ: German 303
The principal dramatic, epic and lyric works of the twentieth century German literature.
- 839M German Novel(II) 3 hours
PREREQ: German 303 or permission
Survey of the German novel from its beginning to the twentieth century.
- 840M German Novelle(II) 3 hours
PREREQ: German 303 or permission
Survey of the German short story, its historical origin, characteristics.
- 844M German Drama(II) 3 hours
PREREQ: German 303 or permission
Study of several of the better-known dramas, history of drama development in Germany.
- 849M German Literature of the Seventeenth Century(II) 3 hours
PREREQ: German 303 or permission of instructor
The principal dramatic epic and lyric works of seventeenth century German literature.
- 850M German Literature of the Eighteenth Century(I) 3 hours
PREREQ: Permission of instructor
A study of representative authors of the Enlightenment, Storm and Stress, and German Classicism: Lessing, Herder, Schiller, and Goethe.
- 858M Bibliography and Methodology(II) 1-2 hours
PREREQ: Permission of instructor
An introduction to the basic bibliography and methodology of German literature and language.

- 860M Pro-Seminar in German Literature(II) 1-3 hours
PREREQ: Permission of instructor
A detailed study of narrower phases of German literature, language or culture.
- Spanish (SPAN)*
- 805M 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.
- 855L Modern Drama of Spain(I) 3 hours
PREREQ: Span. 318 or permission
Ideologies, techniques, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries.
- 856L Modern Novel of Spain(II) 3 hours
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.
- 800M Independent Study(I, II) 1-3 hours
PREREQ: Permission of the instructor
Guided independent study and research under tutorial supervision.
- 810M 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 Calderón de la Barca.
- 811M Novel of the Golden Age(II) 3 hours
PREREQ: 317 or permission of instructor
Study of the prose masterpieces of the sixteenth and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote.
- 816M Spanish American Literature of the 20th Century(I) 3 hours
PREREQ: Span. 322 or permission
Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from Modernism to the present.
- 820M Spanish American Novel(I) 3 hours
PREREQ: Span. 322 or permission
Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.
- 824M Generation of 1898(II) 3 hours
PREREQ: Span. 318 or permission
Examination of the ideology, philosophy, and literary techniques of Unamuno, Martinez Ruiz, Valle-Inclán, Baroja and Antonio Machado.
- 835M Spanish American Short Story(II) 3 hours
PREREQ: Span. 321 and 322 or permission of instructor
Representative stories of the nineteenth and twentieth centuries from Romanticism to current production.
- 860M Pro-Seminar(I) 3 hours
PREREQ: Permission of instructor
A detailed study of narrower phases of Spanish or Spanish American literature, language or culture.

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 in 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 cognate 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., the philosophy behind the movement, current conservational 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. 845M)** 3 hours
 A geography of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.
- 813M Geography of Manufacturing (Same as Econ. 813M)** 3 hours
 PREREQ: Geog. 313 or Econ. 201 and 202
 A course which discusses methods of measurement and classification, as well as the function of manufacturing; major world manufacturing regions and industry analysis; location criteria and theory in the U.S.; and local community patterns.
- 814M Urban Sociology (Same as Soc. 814M)** 3 hours
 PREREQ: Graduate
 A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social, psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.
- 823M Great Plains and Nebraska (Same as Hist. 841M)** 3 hours
 PREREQ: 6 hours of Geog.
 This is a regional geography course intended for geography majors and Arts and Sciences students who may have an interest in this particular area. It is desirable to have had some previous study with regional geography.
- 832M Climates of the World** 3 hours
 PREREQ: Geog. 106 (or a meteorology course)
 The atmospheric component of man's physical environment is systematically investigated throughout the world. Based upon large numbers of climate stations, the climate controls and elements of the continents are studied by seeking for the "what" and "why" about the climates of the continental subregions. The modified Koppen classification system is applied.

- 843M American Urban History to 1870 (Same as Hist. 843M)** 3 hours
 PREREQ: Permission
 Historical survey of urban development in the United States from the colonial period through the 1860's' urban society, problems, institutions; role of cities in national history; American ambivalence toward cities.
- 844M American Urban History Since 1870 (Same as Hist. 844M)** 3 hours
 PREREQ: Permission
 American urbanization from 1870's to the present; influence of technology, transportation, industry, immigration; urban politics and reform movements; emergence of metropolitan America and problems of the contemporary super-city.
- 853M Historical Geography of the United States (Same as Hist. 810M)** 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** 1, 2, or 3 hours
 (May be repeated to a maximum of 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 either the graduate General Seminar or the local chapter of GTU, National Honorary Geography Fraternity.
- 890M 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.
- (All 800V and 900 Courses Require Department Permission)
- 801V Geography Concepts: History and Philosophy** 3 hours
 PREREQ: Permission
 Introduction to History of Geography. Emphasis on significant ideas, concepts, methodologies, and philosophies in geography from the classical Greeks to present.
- 802V Geography Concepts: Quantitative Methods** 3 hours
 PREREQ: Permission
 The understanding and appreciation of quantitative techniques in geography. Emphasis is placed on sampling theory and design, graph theory and spatial statistics.
- 804V Seminar in Educational Geography** 3 hours
 PREREQ: Permission
 A survey of methods, instruction aids and goals for teaching geography. Designed to aid the teacher in the improvement of geographic instruction in the elementary and secondary schools as well as in higher education.
- 821V Cultural Geography** 3 hours
 PREREQ: Permission
 The philosophical basis of human and cultural geography; interpretation of the cultural landscape.
- 831V 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.
- 851V 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.

- 855V Physiography of North America** 3 hours
 PREREQ: Geog. 107 (104), or 117, or 118
 A study of the landforms regions of North America as related to the whole study of geography by means of a systematic analysis of geomorphic patterns.
- 858V Soils** 3 hours
 PREREQ: Geog. 106 or 107 (104)
 An examination of the older geographical concepts of the distribution and morphology of soil and the new works concerned with soil forms on a regional, rather than zonal, basis.
- 861V Field Geography** 3 hours
 PREREQ: Permission
 A systematic discussion of techniques for studying and analyzing terrain features, land use characteristics, and the nature of their patterns as a part of the whole geographic environment.
- 865V Land Use** 3 hours
 PREREQ: Geog. 812M. Permission
 A field course designed to understand, by actual field investigation, land use patterns in urban areas through the comprehension of social, physical, and economic factors which tend to shape the land use of a given place. The major emphasis will be placed upon field investigations in the urban area, with the functional region receiving the major consideration.
- 867V Cartographic Methods** 3 hours
 PREREQ: Geog. 353. Permission
 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.
- 871V Population Seminar (Same as Soc. 871V)** 3 hours
 PREREQ: Permission
 The significance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time.
- 880V Independent Study in Topics on Urbanism**** 1 hour per semester to 3
 PREREQ: Undergraduate major in one of the social sciences, plus six hours of graduate work in one of the Social Sciences
 Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.
 ** (Also listed under Economics, Political Science, and Sociology.)
- 881V Urban Seminar in Metropolitan Planning and Development** 3 hours
 (Same as Pol. Sci. 881V)
 PREREQ: Geog. 812M or recommendation from Political Science, Sociology, or Economics Department
 An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of annexation.
- 883V- Interdisciplinary Seminar on the Urban Community**** 2 to 6 hours
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 Economics, Political Science, and Sociology)
- 885V- Seminar in Urban Economics**
886V (Same as Economics 885V-886V) 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 applicable toward their possible solution. Separate credit may be received for each course.

- 887V- Seminar in Regional Economics**
888V (Same as Economics 887V-888V) Each 3 hours
 PREREQ: At least 6 hours of upper division course work in economics, or permission of 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.
- 898V- Urban Regional Research (Same as Econ. 898V-899V)** 1 to 6 hours
899V 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, consulting with adviser, and submitting completed report to a departmental committee.
- 899 Thesis** 3 to 6 hours
 Independent research project written under the supervision of an adviser.
- 941 Seminar in Problems of Political Geography** 3 hours
 PREREQ: Permission, and Geog. 393
 Case studies in land boundaries, territorial waters, and in population aspects of boundary problems. A review of important studies in Political Geography.
 Professor Gordon B. Schilz
- 975 Seminar in Regional Geography** (3-6 credits, maximum 3 per semester, except foreign country field work.)
 Professor Gordon B. Schilz
- 991- General Seminar (required, no credit)**
992 Review of current research by geographers including national and international associations and initial thesis proposal.
 Professor Gordon B. Schilz

HISTORY (HIST)

Graduate Faculty Members:

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

Master of Arts

Admission to M.A. Program

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

M.A. Program with Thesis (Option I)

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

Course Descriptions

- 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 adviser.

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of course work, at least half of which must be earned in courses open only to graduate students (V series).
2. In addition to showing broad competency in history, the candidate must give proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.
3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be gained by the adviser's permission, and the approval of the Graduate Program Committee.
4. Whether or not the student elects a minor in an outside field, he shall maintain a reasonable balance between American and non-American fields in history.
5. When the student initially enrolls, he shall, in conference with the chairman of the Graduate Program Committee of the Department of History, choose his adviser. The chairman of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the 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.

811L American Economic History to 1865	3 hours
PREREQ: Graduate standing	
A survey of American economic development from colonial times to the end of the Civil War.	
812L American Economic History Since 1865	3 hours
PREREQ: Graduate standing	
A survey of American economic development from the Civil War to the present.	
813L American Colonial History	3 hours
PREREQ: Graduate standing	
A study of the background settlement, and development of the English colonies.	
815L The American Frontiers: 1600-1840	3 hours
PREREQ: Graduate standing	
A study of the frontier systems of the Thirteen Colonies and of Spain and France, and the Westward Movement of the United States to the Mississippi River.	
816L The American Frontier: 1840-1900	3 hours
PREREQ: Hist. 815L or permission of instructor	
The Trans-Mississippi West from Spanish and French days to the disappearance of the frontier around 1900.	
833L Diplomatic History of the United States to 1900	3 hours
PREREQ: Graduate standing	
A study of the foreign relations of the United States before 1900.	
834L Diplomatic History of the United States Since 1900	3 hours
PREREQ: Graduate standing	
A study of the foreign relations of the United States since 1900.	
841L History of Nebraska	3 hours
PREREQ: Graduate standing	
From the earliest known records to the present.	
844L History of the South	3 hours
PREREQ: Graduate standing	
Economic, social and political development of the South as a region.	
851L Economic History of Europe to 1760	3 hours
PREREQ: Graduate standing	
A survey of European economic development to 1760.	
852L Economic History of Europe Since 1760	3 hours
PREREQ: Graduate standing	
A survey of European economic development from 1760 to the present.	
853L Medieval Europe, 284-1095	3 hours
PREREQ: Graduate standing	
Establishment and development of the medieval church and of feudal society from the declining years of the Roman Empire to the beginning of the Crusades.	
854L Medieval Europe, 1095-1492	3 hours
PREREQ: Graduate standing	
Religious, social, economic, philosophic and institutional developments of the era extending from the Crusades and the investiture struggle through "the waning of the middle ages."	
855L The Age of the Renaissance	3 hours
PREREQ: Graduate standing	
An introduction to the economic, social, political, religious, and intellectual changes to the principal thinkers, writers, and artists of the period extending roughly from 1300-1550.	
864L History of the British Empire and Commonwealth	3 hours
PREREQ: Graduate standing	
Britain in America, Africa, India and the Pacific. The development of a dependent empire and the transformation of many dependencies to the status of independent members of the Commonwealth of Nations.	
891L Topics in History	3 hours
PREREQ: Graduate standing	
A pro-seminar on selected topics based on a consideration of interpretive historical writings and/or source materials.	

- 801M History of Science to 1700 (I) 3 hours
PREREQ: Graduate standing
A survey of the development of scientific ideas and techniques from antiquity to the beginning of modern science.
- 802M History of Science Since 1700 (II) 3 hours
PREREQ: Graduate standing
A survey of the historical and intellectual development of modern science and its relation to technology, society, and social thought.
- 805M History of Women in the United States 3 hours
PREREQ: Graduate standing
Study of women's history from the colonial period to the achievement of suffrage.
- 810M Historical Geography of the United States (Same as Geog. 853M) 3 hours
PREREQ: Graduate standing
A study of sequent occupation in the United States with emphasis on the formative periods.
- 811M American Social and Intellectual History to 1865 3 hours
PREREQ: Graduate standing
Primarily a non-political approach to American History, this course will examine significant topics in American thought and society.
- 812M American Social and Intellectual History Since 1865 3 hours
PREREQ: Graduate standing
Primarily a non-political approach to American History, this course will examine significant topics in American thought and society.
- 813M The Revolutionary Era, 1763-1789 (I) 3 hours
PREREQ: Graduate standing
An analysis of the forces which led to the American Revolution and an examination of some of the problems which arose as a result of the separation from England.
- 814M Early Federal Period, 1789-1815 (II) 3 hours
PREREQ: Graduate standing
A study of the growth and development of the American nation during the formative years under the Constitution.
- 816M The Jacksonian Era (I) 3 hours
PREREQ: Graduate standing
An interpretive study of the middle period of American history.
- 818M Civil War and Reconstruction (II) 3 hours
PREREQ: Graduate standing
The background of the conflict, the years of the war and the problems of reshaping the Union in the years that followed.
- 824M The Emergence of Modern America: 1877-1901 3 hours
PREREQ: Graduate standing
A study of a transitional period in American history, this course considers the importance of industrialization, urbanization, immigration, and the emergence of the United States as a significant world power.
- 827M Twentieth Century America to 1932 (I) 3 hours
Graduate standing
A study of the history of the United States from the end of the nineteenth century to the election of Franklin D. Roosevelt to the Presidency in 1932.
- 828M Twentieth Century America, 1933 to Present (II) 3 hours
PREREQ: Graduate standing
A study of the history of the United States from the election of Franklin D. Roosevelt to the Presidency at the present.
- 829M Ideas in Twentieth Century America (II) 3 hours
PREREQ: Graduate standing
An analysis of some of the more important ideas which have had influence in recent America.
- 833M American Constitutional History to 1860 (I) 3 hours
PREREQ: Graduate standing
A history of constitutional theory and practice in the continental North American colonies of England and in the United States prior to 1860.

- 834M American Constitutional History Since 1860 (II) 3 hours
PREREQ: Graduate standing
A history of constitutional theory of practice in the United States from 1860 to the present.
- 841M Great Plains and Nebraska (same as Geog. 823M) 3 hours
PREREQ: Graduate standing
This is a regional geography course intended for students who may have an interest in this particular area. It is desirable to have some previous study with region geography.
- 842M History of American Science 3 hours
PREREQ: Graduate standing
A study of the origins, development, and nature of American science and its relations with technology, social thought, and government.
- 843M American Urban History to 1870 3 hours
PREREQ: Graduate standing
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 3 hours
PREREQ: Graduate standing
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.
- 845M Urban Geography (same as Geog. 812M, Econ. 812M, Soc. 812M) 3 hours
PREREQ: Graduate standing
A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities.
- 847M History of American Medicine and Public Health 3 hours
PREREQ: Graduate standing
Analysis of the relationship and interaction of medical thought and practice, public health problems and institutional development, and the changes in American society and culture from the 17th to the 20th century.
- 851M Intellectual History of Modern Europe: Seventeenth and Eighteenth Centuries (I) 3 hours
PREREQ: Graduate standing
Intellectual History of Modern Europe from the beginning of the seventeenth century to the French Revolution.
- 852M Intellectual History of Modern Europe: The Revolutionary Age to the Present (II) 3 hours
PREREQ: Graduate standing
Intellectual History of Modern Europe from the French Revolution to the present.
- 853M Age of the Reformation (II) 3 hours
PREREQ: Graduate standing
A study of European society during the critical years following the Renaissance.
- 854M The Age of Absolutism (I) 3 hours
PREREQ: Graduate standing
The emergence of new power relationships on the European Continent after the religious wars of the sixteenth century with an emphasis upon the political, military and cultural factors that led to the French hegemony and the secularization of European politics.
- 855M Age of the Enlightenment (I) 3 hours
PREREQ: Graduate standing
A study of the politics, economics, and culture of eighteenth century Europe and of the cause of the French Revolution.
- 856M The French Revolution and Napoleonic Era: 1789-1815 (I) 3 hours
PREREQ: Graduate standing
A study of Revolutionary France and the Napoleonic Empire as an integral part of the Age of Revolution with emphasis upon its causes, development, contributions and reasons for the ultimate collapse of the Empire.

- 857M **Nineteenth Century Europe, 1815-1848** (I) 3 hours
 PREREQ: Graduate standing
 An advanced study of what has happened in Europe since 1815 with a view to exposing the consequences of such events.
- 858M **Nineteenth Century Europe 1848-1890** 3 hours
 PREREQ: Graduate standing
 An advanced interpretive analysis of the political and cultural development of Europe from the Revolutions of 1848 to 1890.
- 861M **Tudor and Stuart England** (II) 3 hours
 PREREQ: Graduate standing
 A study of England under the Tudors, when the English people rose magnificently and experienced a Golden Age, and the Stuarts then cast off the last remnants of medieval things and formed new institutions foreshadowing those of our world of today.
- 862M **England in the Eighteenth and Nineteenth Centuries** (II) 3 hours
 PREREQ: Graduate standing
 A study of the change and development in Great Britain from 1714 to 1914.
- 863M **English Constitutional History to 1485** (I) 3 hours
 PREREQ: Graduate standing
 The development of the legal and governmental institutions of the English-speaking people to 1485, including England's central and local governments.
- 864M **English Constitutional History Since 1485** (II) 3 hours
 PREREQ: Graduate standing
 The development of the legal and governmental institutions of the English-speaking people since 1485, including British central and local government and the governments of the member states of the Commonwealth and of the more important colonies.
- 874M **Nineteenth-Century Intellectual History of Russia** 3 hours
 PREREQ: Graduate standing
 A Pro-seminar emphasizing the nineteenth-century revolutionary tradition, prototypes, ideology and impact upon Russian society.
- 877M **Europe in Crisis: 1890-1932** 3 hours
 PREREQ: Graduate standing
 A study of the conditions and forces immediately precedent to World War I, the war itself, the peace following the war, and the rise of the modern dictatorships.
- 878M **Europe in the Global Age: 1933 to the Present** 3 hours
 PREREQ: Graduate standing
 A study of the ever increasing tensions between the fascist and communist dictatorships and the Western democracies, World War II, the resultant dislocation of power and the emergence of the "Balance of Terror."
- 801V **Advanced Research Project in History** (I, II, S) 1-5 hours
 PREREQ: Graduate standing and permission of instructor
 Special problems in advanced work in history, arranged individually with graduate students.
- 803V **Historical Research** (I) 3 hours
 PREREQ: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 493 or equivalent)
 The critical method in collecting and organizing historical materials; the processes of verification, evaluation, and organization of facts; the problems of writing: documentation, styling, and printing the product.
- 806V **Great American Historians** (II) 3 hours
 PREREQ: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 496 or the equivalent)
 A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.
- 807V **Great European Historians** (I) 3 hours
 PREREQ: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 497 or equivalent)
 A survey of the History of European historical writing from Homer to Toynbee. Reports based on selected readings.

- 899 **Thesis** (I, II, S) 1-6 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 963 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

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

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

963 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 hours of credit 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 (II) 3 hours
 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 (II) 3 hours
 PREREQ: Math 196, 211, and a computer language.
 List processing languages, theories of file organization, theories of system design, information retrieval, applications.
- 830M Linear Programming (I) 3 hours
 PREREQ: CS 322 or equivalent
 An introduction to linear programming and applications.
- 832M Introduction to System Programming (II) 3 hours
 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 3 hours
 PREREQ: CS 322 or equivalent
 Assemblers, interpreters, compilers, particular languages studied include: a) sudos, b) snobol, c) algol.

Mathematics

- 811L Differential Equations (I, II) 3 hours
 PREREQ: One year of calculus
 Methods of solving ordinary differential equations with applications to geometry and physics. The linear equations are emphasized.
- 853L Probability and Statistics I (I, II) Each 3 hours
 854L Probability and Statistics II (I, II) Each 3 hours
 PREREQ: Math 197 First semester required for second semester enrollment.
 Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, the multivariate normal distribution, testing of statistical hypotheses, confidence intervals.
- 860L Introduction to Topology (II) 3 hours
 PREREQ: Math 196
 Theory of sets, topological spaces, metric spaces, topological properties.
- 864L Modern Geometry (I) 3 hours
 PREREQ: Math 196 or equivalent
 Duality, perspectivity, harmonic sets, double ratio, conics and projective coordinates dependence 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 (I, II) Each 3 hours
 812M Abstract Algebra (I, II) Each 3 hours
 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.
- 823M Mathematical Analysis (I, II) Each 3 hours
 824M Mathematical Analysis (I, II) Each 3 hours
 PREREQ: 6 hours of mathematics numbered 300 or above
 Topology of Euclidean space, continuity, differentiation, Riemann-Stieltjes integration sequences and series. Math 823M required for Math 824M.
- 827M Complex Variables (I, II) 3 hours
 PREREQ: Math 823M or Advanced Calculus
 Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation, singularities and representations of analytic functions.
- 829M Theory of Ordinary Differential Equations 3 hours
 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 (I) 3 hours
 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 3 hours
 PREREQ: Graduate classification
 Logic, axiom systems, set theory, groups, the real number system, meta-mathematics.
- 851M Theory of Numbers 3 hours
 PREREQ: 3 semesters of college mathematics including 1 year of calculus
 Congruences, quadratic reciprocity, diophantine equations, continued fractions, and prime number distribution.
- 860M Tensor Analysis 3 hours
 PREREQ: Math 311 or equivalent
 E-Systems, Determinants, and Review of Vector Analysis, Surface Theory, Tensor and Extensor Algebra, Applications.
- 825V Partial Differential Equations (II) 3 hours
 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.
- 835V Theory of Analytic Functions Each 3 hours
 836V Theory of Analytic Functions Each 3 hours
 PREREQ: Math 423, 424, or equivalent
 Complex number, analytic and elementary functions, complex integrations; calculus of residues, entire and meromorphic functions, Normal families, and conformal mappings.
- 845V Calculus of Variations 3 hours
 PREREQ: Math 423-424
 An introductory course devoted to the classical theory and problems, such as the Brachistochrone problem and problems in parametric form.
- 860V Differential Geometry (I) 3 hours
 PREREQ: Math 423
 Differential manifolds, integral calculus on manifolds, Lie groups, differential geometry of Euclidean space.
- 862V Introductory Topology Each 3 hours
 863V Introductory Topology Each 3 hours
 PREREQ: Permission of instructor
 Set theory, topological spaces, convergence, continuity metric spaces and metrization, simplicial homology theory.
- 898V Graduate Seminar (I, II) 1-3 hours
 PREREQ: Permission of instructor
 A graduate seminar in mathematics.
- 899 Thesis (I, II) 3-6 hours
 PREREQ: Permission of department chairman
- 899V Independent Graduate Studies 3 hours
 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 (I, II) 3 hours
 912 Advanced Topics in Algebra II (I, II) 3 hours
 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 Each 3 hours
 924 Theory of Functions of Real Variables Each 3 hours
 PREREQ: Math 423 or Advanced Calculus
 Real number system, convergence, continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, the L_p spaces.

- 926 Functional Analysis Each 3 hours
 927 Functional Analysis Each 3 hours
 PREREQ: Math 427, 523, 562, or permission of instructor
 Semester I: Normed Linear Spaces and Operators, Dual Spaces, Linear Topological Spaces, Weak Topologies, Convex Sets, Completely Continuous Operators, and Applications. Semester II: Standard Spaces, Hilbert Spaces, Integration in Banach Spaces, Spectral Theory, Applications.

PHYSICS (PHYS)

Graduate Faculty Members:

Professor John G. McMillan (chairman)
 Associate Professors Raymond A. Guenther, John W. Flocken;
 Assistant Professor John C. Kasher

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

Course Descriptions

- 801L Elements of Electronics (I or II) 3 hours
 PREREQ: Math thru Trig., and Physics 112 or 212
 The background of theory, operation, and practice of electronic devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved.
 Electronics Laboratory (I or II) 1 hour
- 802L Optics (I or II) 3 hours
 PREREQ: Math 196 and Physics 112 or 212
 The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics.
 Optics Laboratory (I or II) 1 hour
- 875L Electricity and Magnetism I (I) 3 hours
 PREREQ: Calculus, Physics 325, or permission
 An advanced discussion of electrostatics and magnetostatics as well as A.C. theory.
 Laboratory for Electricity and Magnetism I (I) 1 hour
- 876L Electricity and Magnetism II 3 hours
 PREREQ: Physics 375
 A course in electrodynamics. Topics include Maxwell's Equations and methods for their solution, boundary conditions, as well as energy, momentum, and transformations of the fields.
 Laboratory for Electricity and Magnetism II (II) 1 hour
- 885L Thermodynamics and Statistical Mechanics (I or II) 3 hours
 PREREQ: Calculus and Physics 112 or 212
 The topics of thermodynamics include various equations of state, first and second laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistics, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given.
- 805M Solid State (I or II) 3 hours
 PREREQ: Calculus and Physics 325 or permission
 Behavior of materials in the solid state as concerns Energy Levels, Wave Mechanics, Optical and Electrical Phenomena.
- 812M Modern Physics (I or II) 3 hours
 PREREQ: Calculus and Physics 112 and 212
 Recent developments concerning the nature of matter, radiation, and space including relativistic effects and the dualistic behavior of particles and waves.
 Modern Physics Laboratory (I or II) 1 hour
- 814M Nuclear Physics (I or II) 3 hours
 PREREQ: Calculus and General Physics 112 or 212
 Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, isotopes, tracer, techniques, radiation health physics, reactor theory.
 Nuclear Physics Laboratory (I or II) 1 hour

- 834M Principles of Geology 3 hours
 PREREQ: General Physics and/or General Chemistry
 This course is designed primarily for Junior and Secondary 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.

- 835M Descriptive Astronomy (I or II) 3 hours
 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, meteors, physics or starlight, star, star systems, and stellar evolution.

- 855M Quantum Mechanics (I or II) 3 hours
 PREREQ: Calculus, Physics 325 or permission
 In this rigorous introduction to quantum mechanics the student becomes familiar with the methods of Schroedinger's wave mechanics and Heisenberg's matrix mechanics. Using these techniques the following topics are discussed: particles in potential wells, harmonic oscillator, angular momentum, hydrogen atom, time-dependent and time-independent perturbation theory and molecular bonding.

- 892M Modern Developments in Physics (I or II) Each 3 hours
 893M PREREQ: General Physics 112 or 212

A resume of the most important discoveries, changes and new concepts gleaned from the last decade of research in physics. Superconductivity, lasers, masers, superfluidity, ultra large magnetic fields, space plasmas, nuclear fusion, power, etc. Designed for updating physical science concepts for science majors and for science teachers.

- 895M Problems in Physics (I, II, S) Each 1-3 hours
 896M PREREQ: General Physics and permission of instructor
 Individual laboratory and/or library work in some field of energy.

POLITICAL SCIENCE (POL. SCI.)

Graduate Faculty Members:

Professors 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 or Master of Science degree program with a major in Political Science must present as a prerequisite a minimum of fifteen undergraduate semester hours of 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.

Course Descriptions

Political Science

- 803M The Presidency** 3 hours
The rise of the institution from Washington to the present, to the position and prestige it holds and how the President uses this power and prestige to influence Congress, the courts, and the public.
- 804M The Legislative Process** 3 hours
A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior.
- 805M The Judicial Process** 3 hours
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 of man's objectives, "The pursuit of justice."
- 810M Comparative State Politics** 3 hours
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.
- 812M Public Opinion and Political Behavior** 3 hours
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.
- 818M Constitutional Law I** 3 hours
The first semester of a two-semester course in American Constitutional Law. It seeks to familiarize the student with the background of the American Constitutional system, the nature of the judicial process and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System.
- 819M Constitutional Law II** 3 hours
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.
- 820M International Politics of Asia** 3 hours
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.
- 821M Foreign Policy of the U.S.S.R.** 3 hours
A study of the foreign policy of the U.S.S.R., with emphasis on developments since 1945. Internal and external influences on Soviet foreign policy, the processes of foreign policy making, and the relations among members of the Communist camp also will be considered.
- 828M Inter-American Politics** 3 hours
Analysis of the role of Latin American states in the international political arena. Emphasis upon developing applying and testing an explanatory theory of international politics through the study of the Inter-American system: the regional institutional and ideological environment, power relations, policies, and contemporary problems.
- 831M Political Theory I** 3 hours
Reviews and analyzes the leading political theories of Western Man from the Hebrews and Greeks to the mid-17th Century.
- 832M Political Theory II** 3 hours
Continues the review and analysis of the leading political theories of Western Man begun in Pol. Sci. 431, bringing the study down to the French Revolution.
- 833M Political Theory III** 3 hours
Continues the review and analysis of the leading political theories of Western Man begun in Political Science 431 and 432 (Political Theory I and II), bringing the study down to the present day.

- 834M Political Theory IV** 3 hours
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 held them.
- 835M Democracy** 3 hours
A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems, and future.
- 836M Dictatorships** 3 hours
A basic study of theory, practice and practitioners of political dictatorship, its roots, development, major 20th century application and bestiality, and threats to man.
- 837M Communism** 3 hours
The Marxism message, its use as an impulse to political power, its world-wide extension, and the threat it poses for the world in the hands of the Soviet Union and others.
- 850M Government and Politics of Great Britain** 3 hours
A comprehensive study of British politics and government. Emphasis will be focused on the formal institutions and informal customs and practices of the British political system.
- 858M Government and Politics of the U.S.S.R.** 3 hours
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 formation.
- 800V Seminar in Political Research Methods** 3 hours
PREREQ: Permission of graduate adviser
A critical investigation of the methods of data collection and analysis for political science research.
- 804V Seminar in American Government and Politics** 3 hours
PREREQ: Permission of graduate adviser
A thorough analysis of selected aspects of the structure and function of the American political system with emphasis on individual research by the student.
- 815V Seminar in Public Law** 3 hours
PREREQ: Three semester hours in public law or permission of graduate adviser
Practical methods of research as applied to specifically selected problems in the areas of Administrative, Constitutional, and/or International Law. Problems studied will correspond to those encountered by government employees, officials, and planners at the national, state, and local levels. Emphasis will be varied from semester to semester in accordance with the background and objectives of the students enrolled.
- 820V Seminar International Politics** 3 hours
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.
- 833V Seminar in Political Theory** 3 hours
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.
- 850V Seminar in Comparative Politics** 3 hours
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.
- 852V Seminar in Comparative Politics: Emerging Areas** 3 hours
PREREQ: Permission of graduate adviser
Research, analysis, and writing on topics of general and particular aspects of the governments, politics, and political problems of emerging nations.

- 880V Independent Study in Topics on Urbanism** 1 hour per sem. to 3
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography, and Sociology.)
 Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.
- 883V-884V Interdisciplinary Seminar on the Urban Community** 3 hours per sem. to 6
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography and Sociology.)
 An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.
- 890V Readings in Political Science** 3 hours
PREREQ: Permission of graduate adviser
 Specially planned readings in Political Science for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is adjudged by the Political Science Department to be capable of pursuing a highly independent course of study.
- 899 Thesis** 1-6 hours
PREREQ: Permission of graduate adviser
 A research project, written under the supervision of a graduate adviser in the department of Political Science, in which the student establishes his capacity to design, conduct, and complete an independent, scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's departmental committee.

PSYCHOLOGY (PSY)

Graduate Faculty Members:

Professors Gordon Becker, Robert Ellingson, Francis Hurst, Gilbert Meier, John Newton (Chairman), D. T. Pedrini, James Williams;
 Associate Professors Kenneth Deffenbacher, Norman Hamm, Shelton Hendricks, Clemm Kessler, C. Raymond Millimet, Harry Saslow, Fred Strider, Richard Wikoff;
 Assistant Professors Kenneth Berry, Evan Brown, Robert Innes, Richard Kohlan, Joseph LaVoie

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

Master of Arts

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

- I. A. Psychology 904 (Proseminar in Learning)
 B. Psychology 956 (Proseminar in Development)
- II. A. Psychology 921 (Proseminar in Perception)
 B. Psychology 923 (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)

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

Master of Science

To complete the M.S. with a major in industrial psychology or the M.S. with a major in educational psychology, the student must present 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. A. Psychology 904 (Proseminar in Learning)
 B. Psychology 956 (Proseminar in Development)
- II. A. Psychology 921 (Proseminar in Perception)
 B. Psychology 923 (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 Chairman and one or more members of the Department of Psychology. If the applicant has not completed a Master's program equivalent to that required for the Master of Science in Educational Psychology, he may be required either to take additional graduate courses or to complete successfully a six-hour qualifying examination in general and educational psychology.

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

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

I. Required Courses in Psychological Methods

- Psych 800V The Profession of Psychology
- Psych 853V Individual Tests I
- Psych 854V Individual Tests II
- Psych 831M (or 431) Psychological and Educational Testing
- Psych 895V Practicum in Psychology
- Psych 851 Advanced Educational Psychology
- Psych 958 Personality Assessment
- Psych 979 Topical Seminar in School Psychology (3-9 hours)

One of the following two courses:

- Psych 855V Introduction to Therapeutic Techniques with Children
- Psych 857V Behavior Modification

One of the following four courses

- Psych 855M (or 455) Retardation
- Psych 859M (or 459) Psychology of Exceptional Children
- SPED 806V Teaching the Exceptional Child
- SPED 860M (or 460) Introduction to the Mentally Subnormal Child

II. Required Professional Education Courses

- COUN 924V Counseling Practices
- EDAD 835V 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** 3 hours
 PREREQ: Permission of instructor
 A study through reading and discussion of the significant individual contributors and contributions to the growth of psychology.

- 803M Psychology of Motivation** 3 hours
 PREREQ: Psychology 213, 301, or 904
 An exploration of the motivation of organisms including methods, concepts, issues, and theories deriving from historical and contemporary research.
- 805M Computer Concepts in Psychology and the Behavioral Sciences** 3 hours
 PREREQ: Psychology 213 (or equivalent)
 An introductory course emphasizing the applications of computers in the areas of psychology, sociology, and education. Includes a functional description of computers and a discussion of programming languages as well as specific uses.
- 806M Environmental Psychology** 3 hours
 PREREQ: Psychology 101 or permission
 A study of effects of natural and artificial environments on human behavior. Particular emphasis on effects of spatial arrangements and their interactions with social distance, territoriality, privacy and such.
- 807M Cognitive Processes** 3 hours
 PREREQ: Psychology 301 or 904
 An exploration of historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, creativity, memory, and symbolic behavior.
- 813M Research Design** 3 hours
 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.
- 814M Nonparametric Statistics** 3 hours
 PREREQ: Psychology 213 (or equivalent)
 A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in the social behavior sciences.
- 827M Animal Behavior (Same as Biology 827M)** 3 hours
 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** 3 hours
 PREREQ: Psychology 102 or 351
 The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity.
- 833M Individual Differences** 3 hours
 PREREQ: 9 hours of psychology, including Psychology 101 and Psychology 213 (or equivalent)
 A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in causation of individual differences in mental traits.
- 843M Psychoanalytic Theories of Personality** 3 hours
 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** 3 hours
 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** 3 hours
 PREREQ: Psychology 343 or permission
 A comparative approach to the understanding of personality theory emphasizing the conflict, fulfillment, and consistency approaches to personality.

- 847M Advanced Counseling Theory** 3 hours
 PREREQ: Psychology 343 or Coun 820V or Psychology 845M
 This course emphasizes the relation between diagnosis and treatment with a Jungian approach embracing psychology, literature, philosophy, and theology. Readings are emphasized.
- 852M Psycholinguistics (Speech 852M and Anth 852M)** 3 hours
 PREREQ: none
 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.
- 855M Retardation** 3 hours
 PREREQ: Psychology 831M or Psychology 213 and Psychology 343 or 845M
 This course considers significantly sub-average intellectual functioning originating during the developmental period and associated with impairment in adaptive behavior. Research is emphasized.
- 859M Psychology of Exceptional Children** 3 hours
 PREREQ: Psychology 343 or 351
 A study of the special problems of children with visual, auditory, or neurological impairments, orthopedic anomalies, intellectual retardation or superiority, speech disorders, emotional or social maladjustments, learning disabilities and cultural deprivation; and the characteristic relationships of parents, professionals, and others to these children.
- 861M Engineering Psychology** 3 hours
 PREREQ: Psychology 101 and permission of instructor
 The methods of experimental psychology are discussed as they relate to problems of designing machines for efficient human use.
- 862M Psychological Aspects of Industrial Training and Education** 3 hours
 PREREQ: Psychology 362 and Psychology 213 (or equivalent)
 A study and application of the theory, techniques, and procedures involved in preparing individuals for their jobs through training and education.
- 863M Techniques of Programmed Instruction** 3 hours
 PREREQ: Psychology 101 and permission of instructor
 An introduction to methods and technology in construction and use of teaching machine programs, with special emphasis on computer assisted instruction.
- 890M Problems in Psychology** 1-6 hours
 PREREQ: 15 hours of psychology and permission of the department.
 May be repeated for up to six hours total credit.
 A faculty supervised research project, involving empirical or library work and oral or written reports.
- 891M Research Problems in Physiological Psychology** 3-6 hours
 PREREQ: Psychology 323 and permission of instructor
 An individualized introduction to the techniques and methodology used in the physiological psychology laboratory.
- 800V The Profession of Psychology** 0 hours
 PREREQ: none
 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.
- 820V Introduction to Counseling Theories (Coun 820V)** 3 hours
 PREREQ: Education 890M or department permission
 Study of contemporary theories of counseling, the counseling process and methods.
- 832V Tests and Measurements** 3 hours
 PREREQ: Psychology 213 (or equivalent)
 A study of the theoretical and practical problems related to the development and use of psychological tests covering such topics as measurement, test development, standardization, reliability, validity, and interpretation.

- 850V Seminar in Communication Theory (Speech 850V)** 3 hours
 PREREQ: Psychology 213 (or equivalent) or permission of instructor
 Analysis of current approaches to the study of communication with emphasis on theoretical models and their application to various professional interests.
- 851V Advanced Educational Psychology** 3 hours
 PREREQ: Psychology 351
 A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those problems existing in the classroom.
- 853V Individual Tests I** 3 hours
 PREREQ: 16 graduate hours of psychology including completion of all required courses for the Master's degree and Psychology 431 (831M) 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.
- 854V Individual Tests II** 3 hours
 PREREQ: 16 graduate hours of psychology including completion of all required courses for the Master's degree and Psychology 431 (831M) 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.
- 855V Introduction to Therapeutic Techniques with Children** 3 hours
 PREREQ: Permission of instructor
 The purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The history and methods of and the research with play therapy are considered.
- 856V Learning in Children** 3 hours
 PREREQ: none
 A course dealing with learning in infants, children and, for comparison purposes, adults. Research relevant to developmental differences in learning ability will be emphasized. Content areas included will be learning methodology with infants and children, learning in infancy, probability learning, transposition and reversal shift learning, imprinting, habituation and imitation learning.
- 857V Behavior Modification** 3 hours
 PREREQ: Psychology 102 and 343, or permission of instructor
 A course in the techniques, rationale, and research literature of changing behavior through reinforcement procedures. Particular attention will be paid to child behavior including retarded children, behavior problems in school, and the behavior of the mentally disturbed.
- 858V Linguistic and Cognitive Development** 3 hours
 PREREQ: Psychology 352 (or equivalent) or permission of instructor.
 An advanced, in depth study of the theory and research on cognitive and linguistic development from infancy to adolescence.
- 859V Social and Personality Development** 3 hours
 PREREQ: none
 A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Research methods and theory, as they apply to social and personality development, will be emphasized throughout the course. All students will be expected to design and conduct a mini-observational study in the area of social and personality development.
- 868V Clinical Child Psychology for School Psychologists** 2 hours
 PREREQ: Permission
 (Cross-listed with Psychiatry 368 at the University of Nebraska College of Medicine)
 An advanced course in child psychology, with emphasis upon diagnostic classification, refinement of approaches and techniques of assessment, and correction of problem behavior in the school age child.

- 895V **Practicum in Psychology** 1-6 hours
 PREREQ: Permission of instructor
 Faculty-supervised experience in a real life industrial, educational agency, clinic or institutional setting designed to bridge the gap between the classroom and a job by emphasizing use of previously acquired knowledge in dealing with practical problems.
- 899 **Thesis** 1-6 hours
 Independent research project written under supervision of a faculty committee. May be repeated up to a total of 6 hours.
- 904 **Proseminar: Learning (Newton)** 3 hours
 PREREQ: Permission of instructor
 A comprehensive and intensive coverage of the experimental literature on learning in humans and animals.
- 905 **Advanced Seminar in Learning (Newton)** 3 hours
 PREREQ: Psychology 301 or permission of instructor
 A course considering theorists who have most directly influenced the contemporary psychology of learning.
- 910 **Proseminar: Analysis of Variance** 3 hours
 PREREQ: Permission of instructor
 A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model.
- 911 **Proseminar: Multiple Regression and Factor Analysis** 3 hours
 PREREQ: Permission of instructor
 Advanced problems and techniques of correlation and regression are discussed including special simple correlation methods and problems, multiple correlation, multiple regression, and factor analysis.
- 921 **Proseminar: Perception (Deffenbacher)** 3 hours
 PREREQ: Permission of instructor
 A comprehensive and intensive coverage of the experimental literature on perception in humans and animals.
- 923 **Proseminar: Physiological Psychology (Hendricks)** 3 hours
 PREREQ: Permission of instructor
 A systematic study of the physiological processes underlying behavior.
- 929 **Seminar in Developmental Psychobiology (Hendricks, Meier)** 3-6 hours
 PREREQ: completion of the psychology proseminar sequence (or equivalent) and permission of instructor
 A theoretical and empirical analysis of neuro- and other physiological changes correlated with and contributing to developmental processes in infra-human and human subjects.
- 936 **Seminar in Applications of Non-Verbal Communication Theory (Speech 955 & SED 936) (B. Brillhart)** 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.
- 940 **Seminar in Small Group Communication (Speech 940 and Sociology 940) (J. Brillhart)** 3 hours
 PREREQ: Speech 801V (or equivalent), Psychology 213 (or equivalent) or permission of instructor
 Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course.
- 943 **Proseminar: Personality (Pedrini)** 3 hours
 PREREQ: Permission of instructor
 A course considering the effects of personality variables on behavior. A historical, theoretical, psychometric, and experimental approach will be emphasized.
- 944 **Proseminar: Social Psychology (Becker, Kessler)** 3 hours
 PREREQ: Permission of instructor
 Examination of theories, research findings and controversies in Social Psychology. Topics will include socialization; person perception; interpersonal attraction; leadership and group effectiveness; attitudes, attitude measurement, and attitude change; intergroup relations; power and social influence. New topics will be added as they become part of the research interests of social psychologists.

- 945 **Experimental Social Psychology (Becker, Kessler)** 4 hours
 PREREQ: Psychology 213 (or equivalent), 345, 301 or 321 with laboratory, and permission of instructor
 Acquisition of basic research skills and a working understanding of key philosophical and methodological issues in social studies, either by himself or as a part of a small group.
- 956 **Proseminar: Development Psychology (Hamm)** 3 hours
 PREREQ: Permission of instructor
 A comprehensive and intensive coverage of the experimental literature on human and infra-human subject development.
- 958 **Personality Assessment (Becker, Pedrini)** 2 hours
 PREREQ: An introductory course in group testing; two courses in individual testing; basic statistics, and permission
 A course dealing with tests and techniques for evaluation of personality characteristics and intended for advanced graduate students in psychology who are enrolled in a program of studies leading to certification as school psychologists.
- 959 **Seminar in Experimental Child Psychology (Hamm)** 3-6 hours
 PREREQ: completion of the proseminar sequence (20 hours) and permission of instructor
 Faculty and student presentations organized around one of the following three major subdivisions of child psychology: (1) social and personality development, (2) developmental changes in conditioning and learning, (3) cognitive growth and functioning. The course may be repeated each time a different topic is covered, up to a maximum total of 9 credit hours.
- 961 **Seminar in Industrial Psychology (Kessler)** 3 hours
 PREREQ: Psychology 213 (or equivalent)
 Intensive study of current problems and research in psychology in industry with particular emphasis on integration of research findings.
- 963 **Personnel Selection and Assessment (Kessler)** 3 hours
 PREREQ: Psychology 213 (or equivalent), Psychology 832V and permission of instructor
 A practical course designed to familiarize the student with the procedures used in assessing and selecting people for industrial positions.
- 979 **Topical Seminar in School Psychology (Hamm, Pedrini, Strider, Wilkoff)** 1-6 hours
 PREREQ: admission to school psychology program
 A discussion of a specific advanced topic in school psychology which will be announced each time the course is offered. The course may be repeated each time a different topic is covered, up to a maximum total of 9 credit hours.
- 991 **Topical Seminar in Psychology (Becker, Deffenbacher, Ellingson, Hamm, Hendricks, Kessler, Millimet, Newton, Pedrini, Strider, Wilkoff, Williams)** 1-3 hours
 PREREQ: permission of instructor
 A discussion of specific advanced topics which will be announced whenever the course is offered.

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 hours credit granted for service in civilian public or semi-public agencies. Requests to waive the internship shall be submitted to a departmental committee for approval. In lieu of the internship in such cases the committee may require additional course work or a thesis.

A core of eight required courses shall be completed plus six credit hours from a specified list of optional courses. The required courses include, but are not necessarily restricted to, Political Science 800V; Public Administration 840M, 841M, 840V, 842V, 844V, 846V, and Economics 856M. The optional courses may be selected from Political Science 883V, 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 the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.	
843M 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.	
845M 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.	
840V Seminar in Public Administration	3 hours
PREREQ: Permission of graduate adviser	
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.	

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	3 hours
PREREQ: Permission of graduate adviser	
A study of the principal managerial problems encountered in larger public or governmental bureaucracies.	
846V Seminar in Public Personnel Administration	3 hours
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	3 hours
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: Geog. 412 or recommendation from Political Science, Sociology, or Economics Department. (Also listed under Geography).	
An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of annexation.	
892V Readings in Public Administration	1-3 hours
Specially planned readings in Public Administration for the graduate student who encounters scheduling programs in the completion of his degree program, or who has special preparatory needs and who is adjudged by the Department to be capable of pursuing a highly independent course of study.	
803U-804U Internship	3 hours each semester
Maximum of 6 to be granted upon completion of written report on internship. Internship in some government: 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:
- Not less than 25 hours of approved courses must have been completed in the University of Nebraska.
 - Not less than 14 hours must be in field work.
 - All courses must be approved by the School for each individual.
 - 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:

- "Core" courses, which are required of all students.
- "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

Fall Semester	Core	Elective
Social Work Practice I (SW 830)	X	
Practicum I (SW 841)	X	
Psychodynamics of Human Behavior (SW 825)	X	
Public Welfare Organization (SW 857)	X	
Social Interaction for Social Work (SW 827)	X	
Spring Semester		
Social Work Practice II (SW 831)	X	
Practicum II (SW 842)	X	
Psychodynamics of Human Behavior (SW 826)	X	
Physical Components of Social Functioning (SW 822)	X	
Social Services for Children and Families (SW 865)	X	
Research Methods in Social Work (SW 883)	X	

2. SECOND YEAR PROGRAM

Fall Semester	Core	Elective
Casework III (SW 913) or Social Group Work III (SW 981)	X	
Practicum III (SW 997A)	X	
Community Planning and Organization (SW 975)	X	
Administration in Social Work (SW 962)	X	
Supervision in Social Work (SW 964)		X
Research Other Than Thesis (SW 985)	X	
Special Studies in Social Welfare (SW 963)		X
Spring Semester		
Advanced Seminar in Social Work Practice (SW 989)	X	
Practicum IV (SW 997B)	X	
Public Social Welfare Policy (SW 961)	X	
Research Other Than Thesis (SW 985)	X	
Orientation to Clinical Psychology (SW 955)*		X
Social Work Practice in Child Welfare (SW 915)		X
Social Work Practice in Mental Health (SW 924)*		X
Delinquency and Its Treatment (SW 953)		X
Special Studies in Social Welfare (SW 966)		X

COURSES OF INSTRUCTION

Courses in the 400/800 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 800 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.

PREREQUISITES—General prerequisites for courses in the 800 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

- 822 (322). **Physical Components of Social Functioning** (1-2 cr) (Required)
PREREQ or parallel: SW 825 of permission
Physical factors, 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.
- 825 (325). **Psychodynamics of Human Behavior I** (2 cr) (Required)
PREREQ: 3 hrs of Psychology; parallel: SW 830, SW 841 or by permission
Dynamics of development of the personality from infancy to the preadolescent years with both normal development and deviation considered.
- 826 (326). **Psychodynamics of Human Behavior II** (3 cr) (Required)
PREREQ: SW 825, SW 831, 842 or parallel or permission
Dynamics of development of the personality from puberty through old age with normal development and deviation considered at all levels. This course, together with SW 825, enable the social work student to evaluate manifestations of normality and strength as well as the potential for pathology in dealing with social dysfunctioning.
- 827 **327. Social Interaction for Social Work** (3 cr) (Required)
Parallel: SW 825 and SW 830 or permission
Consideration of selected structures and processes of social interaction and the way in which interaction impinges upon and affects the people involved in the processes. Consideration will be given to the family, small group, community, and several models of societal organization and control.
- 855 (355). **Orientation to Clinical Psychology** (1 cr) (Elective)
PREREQ: 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.

Social Welfare Policy and Services—Graduate

- 857 (357). **Public Social Welfare Organization** (2-3 cr) (Required)
The structure of public social service in the United States; principal programs of service and patterns of administrative organization.
- 865 (365). **Social Services for Children and Families** (2 cr) (Required)
PREREQ: 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 roles of social workers in the operation and development of these programs, and to social policy toward improved ways of meeting social needs of children and families.
- 961 (361). **Public Social Welfare Policy** (2 cr) (Required)
PREREQ: SW 857 or equivalent
Basic considerations in public 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.

Social Work Practice—Graduate

- 830 (330). **Social Work Practice I** (4 cr) (Required)
Parallel: SW 841 or permission
Consideration is given to professional social work practice and its place within society by study of the history of its development, theoretical knowledge, and its philosophical base. 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 Consideration of the common base of social work practice with emphasis on the assessment of social situations leading to choice of interventive action from a repertoire of interventive approaches. The social worker's role as the change agent in this process is developed through continuous application of basic social work practice theory as utilized with individual, group, organization, and community client systems.
- 913 (313). **Social Casework III** (2 cr) (Required)
PREREQ: SW 831, 842 or permission
Emphasis is placed on increasing 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 826 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 826, 842, or permission
Consideration of the practice of social work in mental health with special emphasis on current trends, principles, and practice.
- 953 (353). **Delinquency and Its Treatment** (2 cr) (Elective)
PREREQ: 830, 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 961 or permission
Administration as a process involving the total agency. Governmental and voluntary agencies. Problems encountered in 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 by permission
Basic teaching and learning theories patterns applied to social work practice 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.
- 991 (381). **Social Group Work III** (2-3 cr) (Required)
PREREQ: SW 831, SW 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 (390). **Advanced Seminar in Social Work Practice** (2-3 cr) (Required)
PREREQ: SW 913 or 981, or permission
Consideration of trends, problems, and issues in current social work practice. Exploration of innovations in the delivery of services and of changing concepts of social work functions.

Social Welfare Research—Graduate

- 883 (383). **Research Methods in Social Work** (2 cr) (Required)
PREREQ: Permission of Director and instructor
Collection, analysis, and presentation of social welfare data, including only the commonly used statistical devices; general types and methods of research related to social work; important sources of assembled data relative to social welfare; research in relation to agency administration; sources of support for social research.
- 899 (398). **Master's Thesis** (6-10 cr) (Elective)
PREREQ: SW 883 or equivalent
Supervised individual research for second year students taking the thesis alternative to meet research requirements for the degree of Master of Social Work.
- 985-986 (385-386). **Research Other Than Thesis** (2 cr each) (Required)
PREREQ: SW 883 or equivalent
Individual research projects for second year students taking this alternative to meet research requirements for the degree of Master of Social Work. Attendance at regular seminars may be required.

Practicum (Field Instruction)

- 841 (341). **Social Work Practicum I** (3-4) Staff and Assistants in Field Instruction (Required)
Parallel: SW 830 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.
- 842 (342). **Social Work Practicum II** (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 841 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.
- 997A (343). **Social Work Practicum III** (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 842 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.
- 997B (344). **Social Work Practicum IV** (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 997A or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

Special Studies—Graduate

- 963 (363). **Special Studies in Social Welfare** (2-4 cr) (Elective)
PREREQ: Graduate standing and permission
Special studies in depth in selected areas of social work curriculum.

SOCIOLOGY (SOC)

Graduate Faculty Members:

Professors George Barger (Chairman), Wayne Wheeler;
Associate Professor John R. Nye;
Assistant Professors William T. Clute, Elaine Hess, Merlin I. Hofstetter,
Mark O. Rousseau, Robert B. Simpson;
Graduate Lecturers Harry H. Crockett, Wilfred Logan

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

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

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

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

Master of Arts

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

Master of Science with a Major in Applied Sociology

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

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

Course Descriptions

Anthropology

- 821M Cultural Anthropology (I) 3 hours
 PREREQ: Graduate
 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 Archeology (I) 3 hours
 PREREQ: Graduate
 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.
- 852M Psycholinguistics 3 hours
 (Same as Psychology 852M and Speech 852M)
 PREREQ: Graduate standing
 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.

- 892M Seminar in Anthropological Problems 3 hours
 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.

Sociology

- 801M Social Control of Behavior (I) 3 hours
 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 (II) 3 hours
 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.
- 903M Advanced General Sociology (I, II, S) 3 hours
 PREREQ: Graduate. Not open to anyone who has recent credit in Sociology 101. (DOES NOT CARRY GRADUATE CREDIT IN SOCIOLOGY)
 A survey of the principles of sociology including interaction, groups, institutions, social organization, and change. Consideration is also given to sociological techniques, major specialties, and classes of data.
- 810M The Community (I) 3 hours
 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.
- 811M Applied Social Gerontology 3 hours
 PREREQ: Graduate standing and permission of instructor
 In 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 412) (I, II) 3 hours
 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 (II) 3 hours
 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 (I) 3 hours
 PREREQ: Graduate
 A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.
- 815M American Family Problems (I, II) 3 hours
 PREREQ: Graduate
 I A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society.
 II An analysis of failures of function and attendant problems in a variety of American families: parent-youth tension, problems of sexual adjustment, role conflicts, multi-problem families, desertion, divorce, others.

- 851M Methods of Social Research** (I, II) 3 hours
 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.
- 853M Seminar in Cross Cultural Communication** 3 hours
 PREREQ: Admission to graduate study and permission of the instructor
 Directed towards understanding the components of cultural and sub-cultural misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. (Same as Speech 853M).
- 862M Complex Social Organizations** (II) 3 hours
 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, governmental, educational, and business settings. Implications of large-scale bureaucratization for social functioning.
- 871M Development of Sociological Theory** (I) 3 hours
 PREREQ: Graduate
 An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although backgrounds to these are traced to their ancient and medieval antecedents where applicable.
- 872M Contemporary Sociological Theory** (II) 3 hours
 PREREQ: Graduate
 A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and theory with shorter descriptive presentations of alternative positions indicating similarities and differences. Principles of theory construction and a review of major sociological concepts and writers.
- 875M Social Change** (II) 3 hours
 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.
- 885M Sociology of Religion** (I) 3 hours
 PREREQ: Graduate
 Analysis of religious behaviors from a sociological and social-psychological perspective, and utilizing both theoretical and empirical materials. The class is designed as an introductory approach to the sociology of religion, and the first in a two-step sequence, undergraduate and graduate.
- 899M Independent Study** 1-3 hours
 PREREQ: Graduate
 Guided reading in special topics under the supervision of a faculty member.
- *801V General Seminar in Sociology** 3 hours
 PREREQ: Graduate
 This seminar, required of departmental graduate students, gives a basic orientation to the profession, its leading figures, publications, organizations, and university departments. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology.
- *805V Seminar in Social Psychology** 3-6 hours
 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.

- *810V Seminar in Applications of Sociology** 3-6 hours
 PREREQ: Graduate
 Sociological theory and method applied to a practical problem of relevance to general social issues.
- *811V Social Problems of the Disadvantaged** 3 hours
 A survey of the social problems existing in disadvantaged communities. The effects upon individuals of such settings. The subculture of poverty.
- *812V Seminar in Social Gerontology** 3 hours
 PREREQ: Graduate
 An interdisciplinary, developmental study of the impact of aging upon individuals and society, including the subsequent reactions of individuals and society to aging with particular emphasis given to changes during the latter half of the life cycle (45+ years). Both theoretical and programmatic implications of aging research are considered.
- *850V Seminar in Research Methods** 3-6 hours
 PREREQ: Graduate
 A complete research project carried out under the supervision of an instructor particularly qualified in the area of concern. Students participate in the background work, question formulation, selection of (or construction of) test instruments, data gathering by methods such as interviewing and participant observation, and analysis.
- *855V Seminar in the Sociology of Religion** 3-6 hours
 PREREQ: Graduate
 A seminar dealing with religion as a social and cultural phenomenon. The study theme will vary from time to time in keeping with the special interests of the instructor.
- *860V Seminar in Social Organization** 3-6 hours
 PREREQ: Graduate
 Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social organization selected by the instructor.
- *870V Seminar in Sociological Theory** 3-6 hours
 Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological theory selected by the instructor.
- *871V Population Seminar (Same as Geography 871V)** (S) 3 hours
 PREREQ: Permission
 The significance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time.
- *880V Independent Study in Topics on Urbanism** 1-3 hours
 PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography, and Political Science)
 Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.
- 881V Urban Seminar in Metropolitan Planning and Development** 3 hours
 (See Geography 881V)
- *883V-884V Interdisciplinary Seminar on the Urban Community** 3-6 hours
 PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography, and Political Science.)
 An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.
- *885-886V Seminar in Urban Economics** 3-6 hours
 Same as Economics 885V-886V)
 PREREQ: Graduate standing and permission of instructor
 An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution.

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

- 895V-896V Practicum in Applied Sociology Each 3 hours
A practical work experience under supervision which provides opportunity for applying principles from the student's academic area of concentration.
- 899 Thesis 1-6 hours
- 940 Seminar in Small Group Communication 3 hours
(Same as Speech 940 and Psychology 940)
PREREQ: Speech 801V or equivalent, or basic statistics, or permission of the instructor
Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Cross-listed with Speech and Psychology)

SPEECH (SPCH)

Graduate Faculty Members:

Professors John K. Brihart (Chairman), Elton S. Carter, Edwin L. Clark;
Assistant Professor Dennis A. Fus, E. Grant Masland, Robert B. Moore, Mary E. Williamson

Master of Arts

An applicant for graduate study in Speech (Interpersonal Communication, or Theatre) must present a minimum of 15 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 9 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 36 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 theatre production; plus a written examination over his area of major emphasis and minor or area studies, judged by a faculty committee.

Course Descriptions

- 801M Advanced Projects in Speech (I, II) Each 1-3 hours
- 802M PREREQ: 9 hours of speech in the general area to be studied and permission of department chairman
Special projects in speech supplementing regular courses; individual research projects; combined study and practicum.
- 811M Development of Rhetorical Theory 3 hours
PREREQ: 6 hours Speech and graduate standing
The evaluation of rhetorical theory from 500 B.C. to 1850.

- 812M Studies in American Public Address 3 hours
PREREQ: 9 hours of speech
Study of representative American speakers from the Eighteenth Century to the present.
- 821M Acting: Historical Periods and Styles Each 3 hours
822M PREREQ: Speech 321-322 or permission of instructor
The fundamental theories and practices of major styles of acting from Ancient Greece to the present, including interpretation of outstanding dramatic literature.
- 823M Scene Design 3 hours
PREREQ: Speech 220 and 223
Principles of composition, perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches.
- 824M Stage and TV Lighting 3 hours
PREREQ: Speech 220 and 223
Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems, deflectors; lamps; control systems.
- 826M Play Direction (II) 3 hours
PREREQ: Speech 230 or permission of instructor
A practicum in play selection, analysis, casting, directing and performing.
- 827M Costume History and Design 3 hours
PREREQ: Speech 227 or permission of instructor
The history of human adornment from pre-historic to modern man. Theory and practicum in theatrical costume design.
- 828M History of the Theatre to 1642 3 hours
PREREQ: Admission to graduate study
An historical survey of the theatre as an institution and the literature of the theatre from its origins to 1642.
- 829M History of the Theatre since 1642 3 hours
PREREQ: Admission to graduate study
An historical survey of the theatre and its literature from 1642 to the present.
- 831M Political Broadcasting 3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
A study of the evolving role of the electronic media in shaping political activities in our contemporary democratic society.
- 834M Television and Radio Programming and Audience Analysis 3 hours
PREREQ: Speech 230 and/or permission of department chairman
An investigation into the sources of programs, program ideas, and the development and expansion of current program formats. Analysis of audience reaction and projects in informal broadcast audience measurement are part of the course work.
- 835M Issues in Broadcasting 3 hours
PREREQ: Speech 230
A study of current economic, legislative and sociological issues facing the American system of broadcasting.
- 836M Broadcasting Sales Seminar 1 hour
PREREQ: Speech 230 and permission of the instructor
A study of the overview and broadcasting economics and sales.
- 837M Communication Workshop 3 hours
PREREQ: Speech 230, and permission of the instructor
To explore and develop new communication processes which can be of service at the individual and community level; to develop skills in the formulation and execution of such processes; and to increase awareness of the pragmatics of communication.
- 850M General Semantics: A System of Inquiry in Developmental-Environmental Communication 3 hours
PREREQ: 6 hours of Speech and 3 hours of Psychology
An introductory, student participation course designed to sustain and advance individuation and humanization: Developing awareness, self-actualization and empathic orientations—in various and changing environments—by means of linguistic and diagrammatic devices in both intrapersonal and interpersonal communication.

- 851M Persuasion** (I, II, S) 3 hours
 PREREQ: Speech 101 and 3 hours psychology or sociology or permission
 Basic principles and psychological processes underlying persuasive communication; a review of various source, message, channel, and receiver variables and their influence on communication effectiveness.
- 852M Psycholinguistics** 3 hours
 (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** 3 hours
 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)
- 862M Directing Forensics** 3 hours
 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** 3 hours
 PREREQ: Speech 171
 Theories and forms of interpretation from antiquity to the present; preparation and presentation of a recital.
- 801V Introduction to Research in Speech** (I) 3 hours
 Basic components, functions, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal.
- 811V Seminar: Modern Public Address** 3 hours
 PREREQ: Permission of the instructor
 Studies in figures, movements and institutions prominent in modern public address. May be repeated.
- 815V College Debate Workshop** (S) 3 hours
 PREREQ: Graduate standing and permission
 A comprehensive analysis of the current intercollegiate debate proposition. Also stresses methods of coaching debate and debate tournament management at the college level. Students taking this course may not also receive credit for Speech 862M, "Directing Forensics," toward a degree at UN-O.
- 820V Dramatic Theory and Criticism** 3 hours
 PREREQ: Speech 220 or permission of instructor
 For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present.
- 821V Seminar in Contemporary Theatre Aesthetics** 3 hours
 PREREQ: Speech 220, Speech 420, and English 252 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.
- 823V Technical Theatre Problems** 3 hours
 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 Play Direction** 3 hours
 PREREQ: Graduate standing and permission of instructor
 An indepth study of the principles of play direction.
- 830V Seminar in Broadcasting** 3 hours
 PREREQ: Graduate standing and permission
 Substantive study into specialized areas and modes of broadcasting. Content will vary according to the individual semester being offered. Course may be repeated.

- 850V Seminar in Communication Theory** 3 hours
 PREREQ: Basic Statistics or by permission of instructor
 Analysis of current approaches to the study of communication, with emphasis on theoretical models and their application to various professional interests.
- 875V Seminar in Electronic Media and U.S. Society: 1950-1970** 3 hours
 PREREQ: Graduate standing
 An examination of the impact of electronic media upon U.S. society, 1950-1970, through an indepth study of noted writings.
- 899 Thesis** 1-6 hours
 Independent research project written under the supervision of an adviser.
- 940 Seminar in Small Group Communication** 3 hours
 (Same as Sociology 940 and Psychology 940)
 PREREQ: Speech 801V or equivalent, or basic statistics, or permission of the instructor
 Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Brilhart, J.)
- 955 Seminar in Applications of Non-Verbal Communication Theory** 3 hours
 (Same as Secondary Education 936 and Psychology 936)
 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.)

INDEX

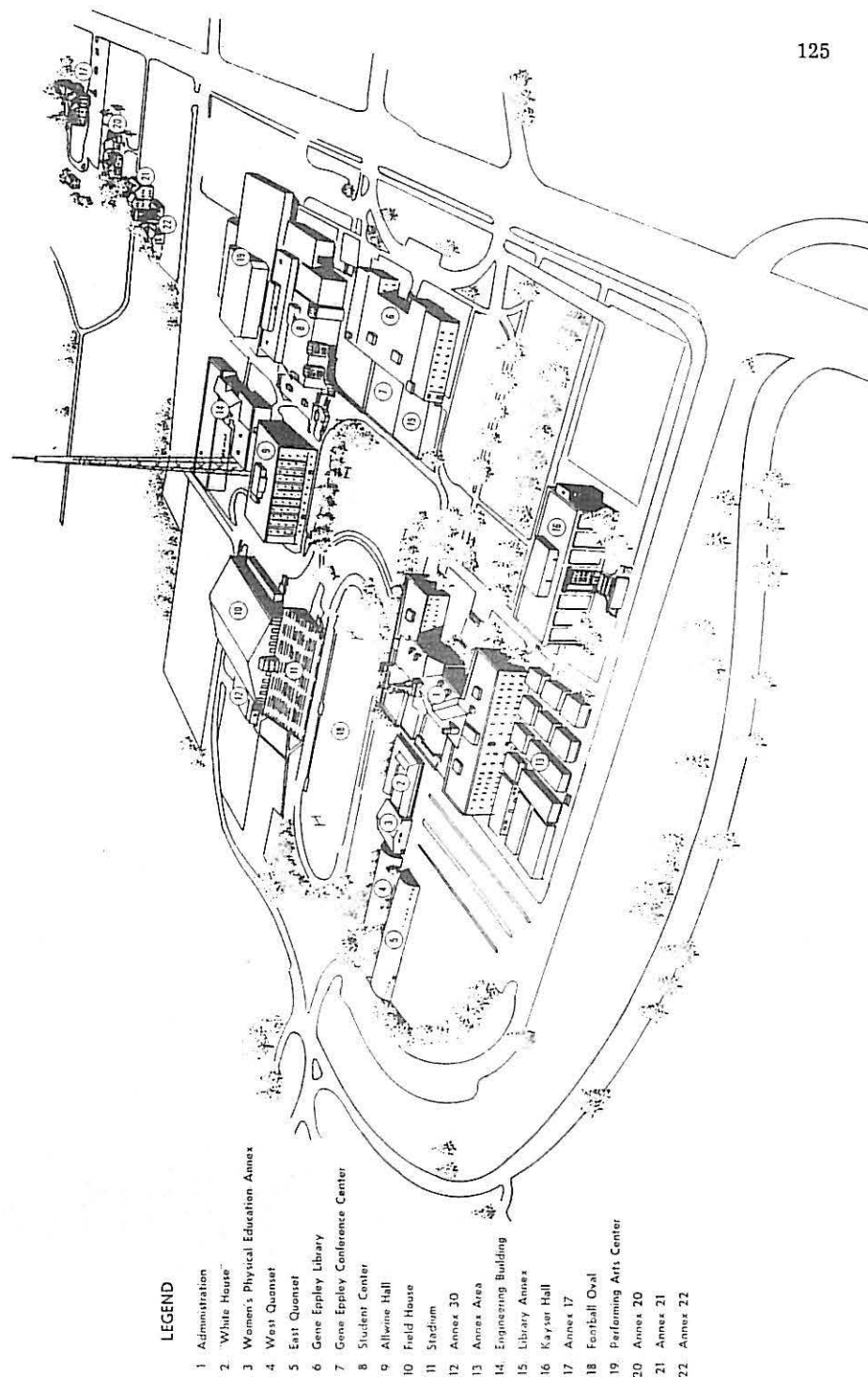
	Page
Absences from Class	30
Academic Standards and Curriculum Committee	21
Accredited standing	19
Administrative officers	7
Admission to the Graduate College	23
Admission to Teacher Education Programs	26
Audit	24
Classification of admission	24
Procedures and regulations	23-26
Application for Admission	
For candidacy for degree	27
For degree	27
Assistantships, graduate	22
Audit	24
Beta Gamma Sigma, National Business Honorary	23
Board of Regents	7
Calendar, graduate, for year 1973-74	4-6
Campus Map	125
Candidacy for degree	27
Certificate, teacher	26
Administrative	26
School Psychologist	101
Class Attendance	30
Commencement exercises (consult calendar)	4-6
Comprehensive examinations	28
Course descriptions	36
Degree programs	35
Departments offering graduate instruction	17
Art	36
Biology	37
Business Administration	40
Chemistry	43
Civil Engineering	45
Economics	49
Education	
Educational Foundations	52
Elementary and Early Childhood Education	54
Secondary Education	55
Counseling and Guidance	59
Agency Counseling	59
Elementary Counseling	60

INDEX—Continued

	Page
Speech Pathology	62 and 64
Educational Administration and Supervision	72
Elementary Administration	73
Secondary Administration	73
Specialist in Education	74
Experimentation and development	77
Urban Education	77
Health, Physical Ed. & Recreation	78
English	79
Foreign Languages	81
French	81
German	81
Spanish	81
Geography	83
History	87
Mathematics	93
Physics	96
Political Science	97
Psychology	100
Educational Psychology	101
Industrial Psychology	101
School Psychologists Program	101
Public Administration	107
Social Work	109
Sociology	113
Applied Sociology	114
Speech	118
Examinations for Graduate Students	18-19
Graduate Record Examination	18
Admission Test for Graduate Study in Business	18
Foreign Language Requirement	19
Faculty, Graduate	8-16
Fees	32-35
Grades, standard of	29
Graduate Assistantship	22

INDEX—Continued

	Page
Graduate College	20
History and Purpose	20
Administration	20
Graduate Program Committee	22
Graduate Faculty	8-16
Late Registration (consult calendar)	4-6, 34
Load, study	30
Master of Arts Degree	35
Master of Business Administration Degree	35
Master of Public Administration Degree	35
Master of Science Degree	35
Master of Social Work	35
Matriculation Fee	24
Non-degree students	25
Non-residents of Nebraska	35
Omicron Delta Epsilon	23
Phi Delta Gamma, women's sorority	23
Phi Delta Kappa, men's fraternity	23
Procedures for Graduate students	31
Psy Chi, Psychology Association	23
Quality of Work	29
Refunds	34
Registration, procedure	26
Dates for (see calendar)	4-6
Fees	32-35
Residence Requirements	30
Scholarships	23
School Psychologist Program	101
Senate Research Committee	21
Specialist in Education Degree	36, 74
Study Load	30
Thesis	27
Submission date (see calendar)	4-6
Binding Fee	33
Examinations	28
Time Limit for Master's Degree	29
Transcripts of undergraduate and graduate credit for admission	24
Transfer of credit	30
Tuition	32-35
Tuition Waivers	23
University Regulations	19
Withdrawal	31



LEGEND

- 1 Administration
- 2 "White House"
- 3 Women's Physical Education Annex
- 4 West Quonset
- 5 East Quonset
- 6 Gene Epley Library
- 7 Gene Epley Conference Center
- 8 Student Center
- 9 Allwine Hall
- 10 Field House
- 11 Stadium
- 12 Annex 30
- 13 Annex Area
- 14 Engineering Building
- 15 Library Annex
- 16 Kayser Hall
- 17 Annex 17
- 18 Football Oval
- 19 Performing Arts Center
- 20 Annex 20
- 21 Annex 21
- 22 Annex 22