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Graduate Bulletin, 1976-1977 (1976)

Moorhead State University

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graduate bulletin

1976-1977 moorhead state university



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A university should be judged neither by its triumphs nor its defeats, but by the challenges it will confront. Recent years demanded a genuine scrutiny of traditional and sometimes facile assumptions about higher education. The value, both academic and monetary, of each program and every major required examination. The very usefulness of degrees became an issue as graduates faced a depleted economic marketplace.

These challenges were met. Although Moorhead State University cannot presume to have solved all problems, it should take pride in its confrontation with them. Such challenges and confrontations have given a sense of renewal, a clearer relationship to the world beyond the University, and a greater awareness of each academic offering's value to the institution. Thus, it is with assurance of their worth and pride in their value that the university presents its graduate programs. They continue to provide programs in those disciplines where the needs of the community and the State for personnel training at the master's level is great. Further, the University realizes the necessity for more education and greater specialization as disciplines increase in complexity and knowledge swells in quantity. Finally, the university recognizes the important stimulus provided by graduate students, graduate courses, and graduate research to its undergraduate courses and students. Challenges confronted, scrutiny continuing, Moorhead State University stands with faith in its graduate programs and a very strong belief in the importance of its excellence.

Roland Dille

general information

The University

Moorhead State University, established in 1885 as a Normal School, graduated its first students in 1890 and following years of growth and maturity now enrolls approximately 5000 students in its instructional offerings on campus and in the surrounding area in Minnesota. Bachelor's degrees may now be earned in 57 major fields of study. Graduate instruction was authorized in 1953, and the first Master's degree was conferred in 1957. Master's degrees presently are offered in 17 majors, and a Fifth Year Program of study is available to teachers who may select from course offerings of more than 20 departments. In the University's commitment of service to persons in its area, more than a third of its graduate instruction is being provided in a number of off-campus locations in northwestern Minnesota. Programs offered by Moorhead State University are accredited by the North Central Association of Colleges and Secondary Schools, and by the National Council for Accreditation of Teacher Education.

The University occupies a 104-acre campus in Moorhead, Minnesota. Most of the 28 major buildings on the campus have been constructed since 1957. Extensive library holdings and an excellent computer facility are supplemented by cooperative arrangements among institutions in the community and through statewide networks linking this University with others in Minnesota. Laboratories and study centers are available with modern equipment to enable a wide variety of research.

Moorhead State University has become a cultural and intellectual center of western Minnesota. Moorhead and adjacent Fargo, North Dakota, have a population of about 100,000. Many organizations and projects in the community are mutually supportive of the programs of the University and two other institutions of higher education, Concordia College and North Dakota State University. The three institutions form a broadly cooperative consortium, the Tri-College University, through which expanded instructional offerings are available by home-campus registration.

Employment Opportunities and Financial Aids

A limited number of Graduate Assistantships are available to which students in Master's programs may be appointed. These assistantships generally require 10 to 15 hours of duties per week and provide opportunity for gaining experience in the field of major interest by duties performed under close faculty supervision. Inquiries should be directed to the Office of Graduate Studies.

Some departments hire student help on an hourly basis and should be contacted directly for information on such assignments. Both a Job Shop and Placement Office are located on campus and may be consulted for part-time job listings which are available in the community. The University participates in the College Work Study, Educational Opportunity Grants, and the National Direct Student Loan programs. Eligibility for participation in these programs may be determined by contacting the Student Financial Aids Office. Veterans are encouraged to seek the assistance of the Veteran's Office for counseling and GI Bill certifications.

Housing and Dining Facilities

Accommodations are available in five residence halls and dining services are available on campus throughout the year. Graduate students may be assigned as resident hall assistants. Inquiries relating to housing should be directed to the Housing Office.

Tuition and Fees

APPLICATION FEE

All students applying for admission to Moorhead State University for the first time must submit with their application a check or money order for \$10.00. This application fee is non-refundable.

TUITION

Tuition and fees are set by the Minnesota State University Board and are subject to change. Present tuition rates are:

Minnesota resident

\$11.50 per quarter hour credit
(\$12.00 beginning summer, 1976)

Non-resident

\$22.50 per quarter hour credit
(\$23.25 beginning summer, 1976)

Residents of Minnesota 62 years of age or older may register for courses in which space is available by paying an administration fee of \$2 per credit hour. Application for such permission should be made with the Admissions and Records Office.

Residents of North Dakota or Wisconsin may apply for tuition reciprocity privilege by submitting forms, available on request from the Graduate Studies or Registrar's Office, to the higher education agency in their home state.

Late registration and change-of-registration fees are chargeable. Graduate students enrolling for undergraduate courses pay the current undergraduate tuition. The University's general catalog should be consulted for additional information.

FEES

Fees are payable at the time of registration each quarter at the rate of \$38.00 for a full-time enrollment (9 or more credits) or \$19.00 for a part-time enrollment. During the summer session fees are assessed at \$2.25 per credit hour.

programs offered

Master of Science

Biology
Chemistry

Master of Science in Education

Art
Biology
Business Education
Chemistry
Counseling and Guidance
Elementary Education
Elementary School Administration and Supervision
English
Health, Physical Education and Recreation
Industrial Education
Mathematics
Music
School Psychologist
Remedial Reading
Social Studies
Speech-Pathology and Audiology
Speech-Theatre

Fifth Year Program

Elementary School Teaching
Secondary School Training
Minnesota certification in special teaching fields;
Audio Visual, Remedial Reading,
School Librarianship, Special Education,
Speech Pathology and Audiology

ADMISSION TO GRADUATE STUDY

Students are admitted into one of three categories: the Master's Program, Fifth Year Program or Graduate Special.

Application Deadlines

Students desiring admission to a Master's Program or Fifth Year Program must complete the application file by August 15 (for the fall quarter), November 15 (for the winter quarter), February 15 (for the spring quarter) or May 15 (for the summer sessions). Interested persons are encouraged to begin the application process at least two months prior to the beginning of the academic term in which they plan to register for first graduate classes.

A student may be admitted in Graduate Special status at any time prior to first registration on completion of the application process (see below).

All application materials may be obtained from the Graduate Studies Office.

Admission to Master's Program

To be admitted to a Master's Program at Moorhead State University, the prospective graduate student must meet the following requirements:

a. Present a baccalaureate degree or its equivalent earned at an accredited college or university.

b. Have a cumulative undergraduate grade-point-average of 2.75 based on a 4.0 scale (a cumulative GPA of 3.0 will be required for any post-baccalaureate work completed at the time of application for graduate study at Moorhead State University).

c. Attain a minimum score of 500 on the Verbal Ability portion of the Graduate Record Examination (or a comparative percentile score or satisfactory performance in another examination as required by a specific department).

d. Be approved and recommended by the department in which the prospective student expects to earn a major. A department may require more exacting standards than those described. Departmental approval required for admission to graduate study will in no case be waived, but approval by the major department does not guarantee admission to graduate study.

Provisional admission may be provided if all criteria are met except a score on a test forthcoming. Nor more than twelve hours of credit counting to the minimum requirements for the degree may be completed prior to submission to the test for a required score.

Probationary admission may be provided to applicants not presenting the minimum requirements for admission in provisional status. Students so admitted, upon completion of twelve hours of coursework approved by an advisor with grades of B or better, may appeal through the department of intended major for admission to the program. The appeal, supported by the department, must be approved by the Dean of Graduate Studies. If not approved, the department may appeal, on behalf of the student, to the Graduate Studies Committee. Not more than twelve hours of credit initiated while on probation may be counted toward the minimum requirements for a Master's degree.

A minimum grade-point average of 3.0 is required for continuation in any admission status. Students attending in provisional or probationary status whose cumulative grade-point-average of courses completed falls below 3.0 will be suspended from that admission. A student admitted in full-standing whose G.P.A. falls below 3.0 will be placed on probationary status. His record will be reviewed by the major department and by the Dean of Graduate Studies after completion of 12-15 additional hours of credit to determine his continuing status, but in no case will he be allowed to continue in the program if his grade point average remains less than 3.0 at the time of the review.

Admission to a graduate study program does not guarantee that the applicant will be advanced to candidacy for an advanced degree.

Admission to Fifth Year Program

The application, with two (2) official transcripts, must be filed with the Graduate Studies Office. Specific requirements for admission are given in this Bulletin, under the section entitled the Fifth Year Program.

Admission as a Graduate Special Student

A student desiring to take courses for graduate credit but not seeking admission to a Master's or Fifth Year Program must complete an application for admission. Should he desire admission to a program at a later date he must submit a complete application for that program and meet the same admission criteria in effect for other students. Credits earned in Graduate Special Status which later might be counted in fulfilling minimum requirements for a program may not exceed nine hours for the Master's degree or 15 hours for a Fifth Year Program.

Senior Registration

A senior enrolled at Moorhead State University who has 12 quarter hours or fewer to complete for graduation may be permitted by the Graduate Dean to enroll in graduate courses. This permission must be obtained in advance of registration.

REGISTRATION AND ACADEMIC PERFORMANCE

Registration

Graduate students are expected to register during the regular registration period at the beginning of each quarter or summer session. For evening and off-campus courses only, students register at the first class meeting. During the academic year, the normal graduate load per quarter is 12 to 15 quarter hours depending upon laboratory and research work. The normal load in each summer session is 6 to 8 quarter hours.

Graduate Courses

Courses whose numbers are followed by "g" are open to graduate students as well as advanced undergraduate students; a higher level of achievement is required of graduate students in these courses. Courses numbered in the 500 series are open only to graduate students.

Grading System

Grades given in graduate courses include A, B, C, D, F, and S (Satisfactory). In a continuing research course a student may be given a grade of X until the course is completed. W signifies withdrawal from the course. Only those credits which were completed with a grade of A, B, or S (or C in some programs) may be applied towards a Master's degree.

The mark of I (Incomplete) is given in cases where a student is unable to complete the last of his course requirements for reasons beyond his control. Arrangements for this must be made with the instructor before the end of the next quarter in which a student is registered. It is the responsibility of the student to make arrangements for removing an Incomplete.

A student's grade point average is computed from credits earned in courses in which the grades of A, B, C, D, and F are given. A grade A earns 4 grade points per credit hour; B, 3 grade points; C, 2 grade points; D, 1 grade point and F, 0 grade points. An Incomplete (I) is counted as an F until it is made up.

Auditing Courses

An entry of V (visitor or auditor) may be made upon a student's permanent record when a course is audited. As an auditor a student may attend all class sessions, but need not complete assignments or projects, take part in class discussion, or take examinations. A student who wishes to audit a course must register and pay tuition and fees as though taking the course for credit. A student may change from regular (credit) to audit status with the written permission of the instructor through the tenth day of classes during the regular quarter, or the fourth day of classes in a summer session. Credit may not be earned in courses taken as a visitor or auditor except by re-enrollment for credit and completion of the course with a satisfactory grade.

the master's degree

MASTER OF SCIENCE IN EDUCATION

The Master of Science in Education is offered by Moorhead State University to extend the potential for performance by persons presently involved in or intending to enter teaching or other services pertaining to the delivery of education. Completion of the degree will not, in itself, qualify one for an earned teaching certificate. However, all persons entering or completing the degree program will be required to have presented evidence of experience in some aspect of an education-delivery system. This may be demonstrated by an earned teaching certificate; or by evidence for the equivalent of nine months of full-time experience in a position of responsibility directly related to the delivery of education, e.g., Area Vocational-Technical School, Junior College, Training Program in Business and Industry, etc.; or by the completion of a planned internship of 120 hours within a period of 3-6 continuous months.

In addition to undergraduate work appropriate to the field of graduate study, to be determined by individual departments or areas, the student is expected to present college work, not a part of the minimum requirements for the Master's degree, representing not less than 12 credits earned in courses relating to at least four of the following fields: teaching and curriculum planning, human development and educational psychology, guidance and assessment, administration, area speciality education studies.

General Course Requirements

Group I Professional Education (minimum 9 hours)
Ed. 501 Psychological Foundations (3), Ed. 503 Introduction to Research (3), one additional Professional Education course (3)

Group II Major Field of Concentration (minimum 24 hours)

Group III Related Area courses (minimum 9 hours)

Remaining 3 hours for the required 45 may be taken in any group. Not more than nine hours earned in workshops or short courses may be counted toward the minimum requirements for a degree.

A Candidate for a Master of Science in Education may choose to fulfill the research requirement in either of the following ways:

Plan A: The candidate writes a thesis for which 6 credit hours are granted, to be included in the 24 credit hours required in the major field.

Plan B: The candidate writes a non-credit starred paper for each of three courses in which enrolled. Two of these papers should be written in connection with courses in the major field and one in a related area. The Professional Education courses required of all candidates for the Master of Science in Education degree may not be chosen for these papers.

Areas of study are given on page 2 of this Bulletin. Specific requirements for particular majors are given in departmental or program sections. The student, after being admitted to graduate study, will, in consultation with his departmental advisor, develop a preliminary plan of study which will meet the specific standards of the department as well as the general requirements for all Master's degrees.

Residence and Transfer Credit

An approved program of study must include at least 36 credits to be completed after admission to study for the Master's degree. Subject to the approval of departments concerned a maximum of 15 credits may be accepted in transfer from other accredited institutions providing that they are included in a properly approved program (see Candidacy). Courses approved for registration through the Tri-College University are not subject to this transfer limitation. Subject to their inclusion in a program previously approved by the departments concerned and the Graduate Studies Office, courses constituting up to half of the minimum hours required for the degree may be taken at other Minnesota State Universities; however, in such instances the number of hours accepted from other institutions will be reduced correspondingly. A grade of A or B is required in any courses to be included in the program and not taken at this University. At least half of the hours constituting the minimum requirements for the degree will be completed through registrations at the University in offerings by its faculty.

Time Limitation

A student may begin coursework up to six months after admission to graduate study. In most departments all requirements for the degree must be completed within seven years; however, a few programs require completion within five years. In certain cases the Graduate Studies Committee may approve a student's petition for an extension of time.

Research Components

Thesis Research (Plan A)

A part of the program of every Master's degree candidate under Plan A is the demonstration of ability to do individual, independent work of a creative or investigative kind in an area related to the major field through the preparation of a thesis. The thesis will be supported by the work represented in 6 hours of registration in thesis 599 but not more than 6 hours of 599 may be counted in satisfying the minimum requirements for the Master's degree under Plan A, except that up to 9 hours of Thesis are allowed for the Master of Science degree in Biology; 15 hours are required for the Master of Science degree in Chemistry. Credit hour registration in a given term may vary with the nature of the study, according to the department or area, and on the previous agreement between the student and the advisor for expected research effort and adequate supervision.

Starred Papers (Plan B)

Students enrolled in a Plan B Master's degree program must submit three starred papers in lieu of the thesis requirement. These starred papers must represent the quality but not the range of the Master's thesis. They shall be prepared in conjunction with three graduate courses, as approved by the examining committee, under the direction of the course instructor. The student must receive prior approval of both the examining committee and the instructor of the course.

Admission to Candidacy

Following admission in full-standing, and prior to the completion of more than 15 quarter hours of graduate work (which should include coursework in research methodology) which may be counted in meeting minimum requirements for the degree, the student will submit to the Graduate Studies Office through the assigned advisor and major department, a program of study and application for admission to candidacy. If a student is not recommended for candidacy prior to completion of 15 quarter hours of credit, hours in excess may not be accepted in counting toward the minimum requirement for the degree. Following admission to candidacy by the Graduate Dean any changes in the program must have his approval and recommendation of the advisor.

A candidate for a Master's degree must maintain an over-all grade point average of "B" in his graduate studies. The Graduate Studies Committee may refuse further registration to any student who fails to maintain at least a "B" average. A degree candidate shall be placed on probation should the over-all grade point average fall below "B." Probational status will be removed if at the end of 15 additional quarter hours a "B" over-all grade point average has been achieved; otherwise the student will lose graduate status.

Examining Committee

When a thesis topic or courses for starred papers have been selected the Candidate will petition the Graduate Studies Office for the appointment of an examining committee. The examining committee, appointed by the Graduate Dean on consultation with the major department, will consist of at least three Graduate Faculty members with the Advisor serving as chairperson.

The examining committee shall be responsible for continuous advisement on the research project as it progresses, for determining the nature of the written comprehensive examination, and for conducting the oral examination.

Written Comprehensive Examination

At least three weeks before a Master's degree is to be awarded the candidate must demonstrate competence in the major field in a written comprehensive examination. The student's examining committee will determine the nature of the examination which must be satisfactorily completed before the oral examination can be held. The candidate for the Master of Science in Education degree also is required to pass a written examination in professional education. The Department of Education should be consulted for the scheduled offering of this examination. A student who fails to pass either examination may appeal through the examining committee to repeat it during a subsequent quarter. A second failure will result in termination of candidacy for a degree.

Final Form for Thesis or Starred Papers

Standards for the preparation of a research thesis may be found in William G. Campbell: Form and Style in Thesis Writing or Kate L. Turabian: Manual for Writers of Term Papers, Thesis and Dissertations. Departments may modify style requirements to suit the specific need in their field. The student must work closely in regular and frequent consultation with the advisor and examining committee in the preparation of the thesis.

The thesis must be typewritten on sixteen or twenty pound rag-content bond paper. Multigraph, multilith, xerox and carbon methods of reproduction of the second and third copies may be accepted. Suitable reproduction processes may be used for charts, graphs, etc. A left hand margin of one and one-half inches, a right hand margin of one inch, and top and bottom margins of about one and one-quarter inches, each, are required. Either pica or elite type may be used.

Starred papers must be prepared in triplicate in the same manner as the thesis.

Neither the thesis nor the starred papers should be bound in any permanent form prior to the oral examination.

Oral Examination

When the written comprehensive examination has been passed, all required coursework completed (except for the last courses in which the student is currently enrolled and in good standing), and the thesis or starred papers completed the candidate must—at least two weeks

in advance—petition the Graduate Studies Office for an oral examination. The petition will be accompanied by an abstract prepared according to instructions from the Graduate Studies Office and three typewritten copies of the thesis or starred papers.

The oral examination will be conducted by the examining committee and the Graduate Dean principally on the research but it may require the candidate to deal with material covered in coursework a part of the program. If serious weaknesses in the candidate's performance or in the research and/or its presentation are determined, these shall be specifically explained to the candidate and the oral examination may be continued on a later date on the committee's approval. Failure to perform in the second half of the oral examination will result in termination of candidacy.

Final Report

After the oral examination has been successfully completed the student must submit three copies of the thesis or starred papers, with all corrections and additions required by the examining committee, to the University Library. The thesis or starred papers must be accompanied by a final report form signed by the advisor verifying that the final copy has been approved. The librarian will, upon receipt of the binding fee (approximately \$5.00 per volume), verify the thesis or starred papers deposit by signing the final report, and will negotiate an agreement with a local bindery. The student is responsible for submitting the final report form, with required signatures, to the Graduate Studies Office not later than two days prior to the date of Commencement.

MASTER OF SCIENCE DEGREE

Programs leading to the degree of Master of Science are available with a major in Biology or in Chemistry. These programs are designed for the student having an undergraduate preparation in a discipline essentially the equivalent of a major at this institution but not necessarily desiring a further preparation for public school teaching. They provide for more specialized advanced study with a strong emphasis on original research.

Applications for admission are processed in the same manner as for the Master of Science in Education degree.

The Master of Science requires a minimum of 45 hours including a thesis based on original research, Academic performance, admission to candidacy, the appointment of an examining committee, requirements of a written comprehensive examination and final oral examination, and preparation and submission of a thesis are essentially the same as for the Master of Science in Education. A maximum of five years is allowed for the completion of the Master of Science.

Specific requirements for the degree with a major in Biology or in Chemistry are given in the departmental sections of this Bulletin.

sequence of procedures for the master's degree

Procedure	Office	Date
Completion of application file as described under "Admission to Graduate Study"	Graduate Studies Office	Initiate at least two months prior to first course work
Appointment of Advisor	Graduate Studies Office in consultation with appropriate dept.	Prior to enrollment
Preparation of an extended study plan	Advisor	Prior to enrollment
Registration	Advisor	See Calendar
Qualifying Examination	Advisor	If required, during first quarter or summer session of enrollment
Application for candidacy for Master's degree	Advisor and Graduate Studies Office	Prior to completion of more than 15 hours of graduate credit
Selection of topic for thesis or starred papers	Advisor	After acceptance as a candidate for the Master's degree
Appointment of Examining Committee	Advisor and Graduate Studies Office	After selection of thesis topic
Completion of language requirements , as set by department	Advisor	Before written comprehensive examination
Written Comprehensive Examination —Major, Related Fields	Examining Committee	After completion of course work or during term in which it is being completed
Professional Education	Education Department	Apply in term prior to examination
Submission of thesis or starred papers and abstract	Graduate Studies Office	After written comprehensive examination and at least two weeks before oral examination
Oral Examination	Dean of Graduate Studies and Student's Examining Committee	After completion of written comprehensive examination and after submission of the thesis, starred papers and abstract. At least two weeks before Commencement
Thesis deposit and Final Report	Library and Graduate Studies Office	At least two days prior to Commencement
Commencement		End of Spring Quarter or end of Summer Session. All candidates are required to attend unless excused.

Graduate students are expected to become thoroughly familiar with the contents of the Graduate Bulletin as they apply to these procedures and are responsible for complying with the requirements as stated.

the fifth year program

The Fifth Year Program at Moorhead State University is a post-baccalaureate program leading to a statement of completion provided by transcript but not involving candidacy for a degree. The program is designed to meet the needs of the individual teacher through one or more of the following purposes:

(1) To strengthen the in-service teacher's preparation in the teaching field (for secondary teachers usually the academic major, for elementary teachers the area of concentration); (2) to broaden the teacher's background and eliminate deficiencies in the undergraduate preparation; (3) to add depth and understanding to an academic major or area of concentration; (4) to allow a degree of specialization in some professional field; (5) to enable the student to take some graduate work in an academic major or area of concentration.

Requirements for Admission

An applicant may be granted admission to the Fifth Year Program in Teacher Education provided:

(1) that a bachelor's degree in teacher education is held from a college or university accredited by the appropriate regional or national accrediting agency, or by a college recognized by the state university of the state in which the college or university is located, and if a valid teacher's certificate is possessed, provisional admission to take courses in the Fifth Year Program will be granted.

(2) that, if holding a bachelor's degree from an accredited institution, the applicant will be provisionally admitted to the Fifth Year Program after (a) producing evidence of holding a valid teacher's certificate in the state where teaching and (b) he completes at least 15 quarter hours of creditable work.

(3) that, lacking prior teaching experience, the student will complete one year's successful teaching experience before completing the requirements of the Program.

Registration and Academic Performance

Prior to enrolling in any course for graduate credit, a Fifth Year student must secure in advance of registration, the permission of the advisor and the instructor of the course in question.

Students with an undergraduate GPA of under 2.5 will be required to take at least 15 hours on the undergraduate level and attain a minimum GPA of 2.5 in this work before they will be allowed to take graduate courses. In certain instances a student with less than 15 hours of work in his Fifth Year Program with an undergraduate GPA of under 2.5 can appeal for permission to take graduate courses by obtaining the permission of the advisor, the Graduate Studies Office, and the instructor of the course to be taken.

The selective retention factor will be a cumulative grade point average of 2.5. The grade point average will be figured at the end of the first nine to twelve hours of course work and will be carried forward throughout the entire program. A student whose cumulative GPA falls below 2.5, may, at the discretion of the Graduate Studies Committee, be dropped from the Program.

Application for Final Admission to the Program

Before completing more than 15 hours (including transfer credits) of the program, the Fifth Year student must submit an advisor-approved outline of the courses to be taken to complete requirements for the Fifth Year Program. This application must be submitted to the Graduate Studies Office.

A maximum of 15 quarter hours of work otherwise creditable to the Fifth Year Program may be accepted in transfer from any one or a combination of the following sources: (a) credits earned at a college after the bachelor's degree has been granted by that college but prior to admission to the Fifth Year Program; (b) credits earned by extension, TV, correspondence, and tours; and (c) transfer credits from other accredited colleges or universities.

General Requirements for Completion of the Fifth Year Program

(1) A minimum of 45 quarter hours shall be required for the completion of the Fifth Year Program.

(2) A minimum of one-third of the work in secondary programs shall be taken in courses open to graduate students only (i.e. in 500 courses).

(3) A minimum of one-third of the work in elementary programs shall be taken at the graduate level (i.e. in 300 or 400 "g" courses or in 500 courses).

(4) A minimum cumulative grade point average of 2.5 will be required for completion of the Fifth Year Program.

(5) Courses in which a grade of "D" is earned will not be credited toward completion of the Fifth Year Program.

(6) All requirements for completing the Fifth Year Program must be completed within seven years.

(7) The normal load for Fifth Year students is 12-16 credit hours per quarter for the regular academic year and 6-8 credit hours for any summer session; the smaller load in each instance being recommended if courses on the graduate level are included.

(8) The Dean of Graduate Studies shall certify completion of the Program to the Registrar, who shall note this completion on the student's permanent record. The Registrar shall notify the student on completion of the program.

(9) This program shall have clear relevance to teaching competence. (a) Students shall take a minimum of 30 hours in a single discipline and/or cognate disciplines and/or needed subject matter. (b) Students may take up to a maximum of 15 hours in professional education.

EXCEPTION: Students working for certification in special education or in remedial reading or in library science.

(10) Modification of basic program requirements must be approved through petition to the Graduate Studies Committee.

There are two basic program tracks in the Fifth Year Program:

The non-certification track:

This track is open to any certificated elementary or secondary school teacher wishing to up-grade and up-date professional qualifications but not seeking an advanced graduate degree. Programs are planned to meet specific needs of the individual teacher in consultation with an assigned faculty advisor. Such programs can be designed for any teacher in any of the departments which presently have undergraduate programs leading to certification. Specific questions by prospective Fifth Year students should be addressed to the Graduate Studies Office, or to the chairperson of the following departments:

Anthropology
Art
Biology
Business Education
Chemistry
Economics
Education
English
Language
Geography
Health, Physical Education
and Recreation
History
Industrial Education
Mass Communications
Media Education
Mathematics
Music
Physics
Political Science
Psychology
Sociology
Speech (Theatre or
Pathology and
Audiology)

The special certificate track:

Briefly this track is open to the certified teacher who wishes to qualify for an additional certificate, e.g. a teacher seeking state certification in remedial reading. These certification programs are described specifically on the following pages.

CERTIFICATION IN SPECIAL FIELDS

Five programs leading to certification in special areas of teaching are offered within the Fifth Year Program at Moorhead State University:

Instructional Communication

(Audiovisual Education)

Media Generalist

Remedial Reading

School Librarianship

Special Education (Educable Mentally Retarded, Trainable Mentally Retarded, Special Learning and Behavior Problems)

Students who meet the qualifications will be recommended for certification in the State of Minnesota in the appropriate field.

Frequently students combine certification work with a Master of Science in Education degree. In any case, students in these programs must meet the requirements for admission to graduate study.

A student seeking certification in any of these five areas should consult an appropriate advisor before planning a program.

Audiovisual Communications

COORDINATOR OF AUDIOVISUAL EDUCATION

Requirements:

A valid teaching certificate.

Earned credits in at least two of the areas of Educational Administration, Elementary School Curriculum, High School Curriculum, and Supervision and Improvement of Instruction.

At least one course in audiovisual methods and one course in audiovisual administration.

DIRECTOR OF AUDIOVISUAL EDUCATION

Requirements:

A valid teaching certificate based on a four-year degree.

Earned credit in each of the following: Educational Administration, Elementary School Curriculum, High School Curriculum, and Supervision and Improvement of Instruction.

At least 15 quarter hours in audiovisual education courses.

At least 2 years of successful teaching experience.

Remedial Reading

ELEMENTARY REMEDIAL READING TEACHERS

Certification requirements as an elementary remedial reading teacher include:

An elementary school teacher's certificate, based on a bachelor's degree.

Two years of successful elementary teaching experience.

The following courses:

Ed 445(g), Remedial and Corrective Reading

Ed 545, Diagnosis and Correction of Reading Difficulties

Ed. 574, Appraisal Techniques

Ed. 446 (g) Remedial and Corrective Reading Clinic

Ed 546, Reading Clinic Diagnosis

SECONDARY REMEDIAL READING TEACHERS

An elementary or secondary school teacher's certificate, based on a bachelor's degree.

Two years of successful elementary or secondary teaching experience.

The following courses:

Ed. 445(g) Remedial and Corrective Reading

Ed. 448(g), Reading Study Skills in the Content Areas

Ed. 545, Diagnosis and Correction of Reading Difficulties

Ed. 574, Appraisal Techniques

Ed. 446(g), Remedial and Corrective Reading Clinic

Ed. 546, Reading Clinic: Diagnosis

SECONDARY DEVELOPMENT READING TEACHERS

An elementary or secondary (grades 7-9) school teacher's certificate based on a bachelor's degree.

Two years of successful elementary or secondary teaching experience.

The following courses:

Ed. 445(g), Remedial and Corrective Reading

Ed. 448(g), Reading Study Skills in the Content Areas

Ed. 545, Diagnosis and Correction of Reading Difficulties.

Eng. 392(g), Adolescent Literature

READING CONSULTANTS AND SUPERVISORS

An elementary or secondary school teacher's certificate.

A Master's degree.

Three years of teaching experience including one year as a reading teacher.

The following courses:

Ed 445(g), Remedial and Corrective Reading

Ed. 448(g), Reading Skills in the Content Areas

Ed. 574, Appraisal Techniques

Ed. 545, Diagnosis and Correction of Reading Difficulties

Ed. 546, Reading Clinic: Diagnosis

Ed. 446(g), Remedial and Corrective Reading Clinic

Sp.Ed. 420(g), Education of the Exceptional Child

Ed. 592, Administration and Supervision of Remedial Reading

Not less than three courses to be chosen from the following:

SpEd 461(g), Education of Children with Special Learning Disabilities

Math 444(g), Diagnosis and Remediation of Learning Difficulties in Mathematics

Psych. 117, Personality

Ed. 411(g), Introduction to Guidance

Ed. 416, Student Personnel Administration

Ed. 341, Survey of Children's Literature

Ed. 410, Counseling Skills

Eng. 392(g), Adolescent Literature

School Librarianship

Students who wish to qualify for certification as school librarians in the State of Minnesota must meet the following requirements:

Have a valid teaching certificate based on a four-year degree.

Complete 25 quarter hours in library science, consisting of the following courses:

Med.Ed. 330 Cataloging and Classification (4)

Med.Ed. 340 Basic Reference Materials and Services (3)

Med.Ed. 420(g) Administration of the School Media Center (4)

Med.Ed. 430(g) Materials for the Elementary School (4)

Med.Ed. 475 Practicum in School Media Services (1-3)

Med.Ed. 440(g) Materials for the Secondary School (4)

Med.Ed. 450(g) Media Services in Elementary and Secondary Schools (3)

See Undergraduate Catalogue for other available courses and for information regarding Media Education Program.

The Library certification program requires no graduate courses. However, students who undertake this plan on the fifth year program should consult with advisors in the Media Education Department in regard to selection of appropriate elective courses.

MEDIA GENERALIST CERTIFICATE

A Media Generalist is qualified to work at a specialized professional level in both print and non-print areas (library science, audiovisual education, and other emerging instructional technologies) in an elementary or secondary school or in a school district. Conversion of existing certificates is possible. Consult with the chairperson.

Special Education

Students who wish to qualify for certification to teach in one or more areas of Special Education should consult with the Coordinator of Special Education. Certification programs include Educable Mentally Retarded, Trainable Mentally Retarded, and Special Learning and Behavior Problems (Learning Disabilities). Applicants must have graduated from an accredited four-year teacher training institution and must hold a certificate to teach in regular elementary or secondary school classes.

EDUCABLE MENTALLY RETARDED

Regular EMR certification requires the completion of a major of 45 quarter credits in special education consisting of the course requirements listed below (17-20 quarter credits) and a minimum of 19 quarter credits chosen from among such study areas as listed below. All elective courses are to be selected with the concurrence of the program advisor. Candidates for certification must complete 8 quarter credits of student teaching. Special Education 416 and 440 are prerequisites for student teaching.

Course Requirements (17-20 credits):

- SpEd 416(g), Mental Retardation (3)
- SpEd 420(g), Education of the Exceptional Child (3)
- SpEd 440(g), Methods in Teaching the Mentally Retarded (3)

- SpEd 450, Student Teaching of Mentally Retarded (5-8)
- SpEd 435(g), Topics in Mental Retardation (3)

Elective Course Study Areas (25-28 credits):

Areas such as Psychology, Physical Education, Education or Sociology

TRAINABLE MENTALLY RETARDED

Recommendation for certification requires the completion of the EMR certification program to include in the electives the TMR block of courses listed below (note the internship requirement).

Courses Required (16 credits):

- SpEd 442(g), Creative Activities for Exceptional Children (2)
- SpEd 456(g), Curriculum Development and Teaching the Trainable Mentally Retarded (2)
- SpEd 457(g), Personal, Social and Vocational Education for the TMR (2)
- SpEd 458(g), Recreative Skills for the Severely Handicapped (2)
- SpEd 459 (g), Methods and Materials for Language Development for the Severely Handicapped (2)
- SpEd 469, Student Internship (6)

SPECIAL LEARNING AND BEHAVIOR PROBLEMS (Learning Disabilities)

Certification requires a valid teacher's certificate in elementary or secondary education and the completion of a minimum of 35 credit hours including the following courses or their equivalents as determined by the program advisor and Coordinator of Special Education.

- SpEd 441(g), Language Development for the Handicapped (3)
- SpEd 445(g), Remedial and Corrective Reading (3)
- SpEd 446(g), Remedial and Corrective Reading Clinic (2)
- SpEd 460(g), Education of the Emotionally Disturbed Child (3)
- SpEd 461(g), Education of Children with Specific Learning Disabilities (3)
- SpEd 463(g), Educational Measurement of the SLD Child (3)
- SpEd 467(g), Practicum: Diagnosis and Treatment of Learning Disorders I (6)
- SpEd 468(g), Practicum: Diagnosis and Treatment of Learning Disorders II (6)
- SpEd 471(g), Behavioral and Environmental Management (3)
- SpEd 472(g), Psychoeducational Diagnosis and Programming (3)

Applicants will be expected to have taken SpEd 420(g), Education of the Handicapped, and an introductory course in reading as prerequisites. Candidates for certification will demonstrate specific competencies in the area. This would ordinarily be accomplished while taking the practicum course.

programs and courses

Accounting Department

Graduate Faculty: Dorian Olson (Chairperson), Wilbert Fischer.

Courses offered by the Accounting Department may be included in the major, Business Education, for the Master of Science in Education degree (see page 3).

ACCOUNTING COURSES

- Acct 330-331-332(g) Intermediate Accounting I-II-III (3 each)
- Acct 355(g) Governmental Accounting (3)
- Acct 430-431-432(g) Advanced Accounting I-II-III (3 each)
- Acct 450-451-452(g) Federal and State Tax I-II-III (3 each)
- Acct 460-461(g) Auditing I-II (3 each)
- Acct 470(g) Accounting Systems (4)
- Acct 480(g) CPA Review (4)
- Acct 498(g) Problems in Accounting (1-4)
- Acct 501 Managerial Law (3)
- Acct 530 Managerial Accounting (3)
- Acct 598 Research in Accounting (3)

Art Department

Graduate Faculty: P. Richard Szeitz (Chairperson), Dale Amundson, Roy Boe, John Holland, Lyle Laske, Phillip Mousseau, Marcel Stratton, John Youngquist.

Master of Science in Education

The degree may be earned with a major in Art. Requirements are those cited on pages 3-5 with the following specific conditions:

Admission applications, to be completed at least three months prior to the intended beginning of graduate studies, should include a portfolio of original work. Deficiencies in credits or quality of work will be removed by appropriate completion of undergraduate work.

A qualifying examination, administered by the department, must be passed before a student may be admitted to candidacy. The examination will cover historical works, major masters and theories of major movements in art history, visual arts, basic theories and problems of contemporary art education.

The candidate working in History or Theory should follow Plan A. The candidate with emphasis in Studio is advised to follow Plan B. One starred paper must be in connection with Art 580 or 581. In lieu of the other two papers the candidate must prepare and hold an exhibit of his art work as partial fulfillment of requirements for the degree. The exhibit and starred paper are to be defended before the examining committee at an oral examination and following successful completion of the written examination in Professional Education.

The program can be completed during one academic year and a summer session on the following schedule:

Fall quarter: Ed 501 (3), Art History (4), Art Concentration (3), Art Elective (2).

Winter quarter: Ed 503 (3), Art History (4), Art Concentration (2), Art 580 (3).

Spring quarter: Ed elective (3), Art History (4), Art Concentration (3), Art elective (2).

Summer Session: Art Concentration (3), Art elective (6).

ART COURSES

- Art 430-431-432(g) Modern Art I-II-III (4 each)
- Art 434-435-436(g) Art in the United States I-II-III (4 each)
- Art 444(g) Special Studies in Elementary School Art (2)
- Art 445(g) Special Studies in Secondary School Art (2)
- Art 455-456-457(g) Renaissance and Baroque Art I-II-III (4 each)
- Art 465(g) The Art of Norway (4)
- Art 467(g) Modern Architecture (4)
- Art 484(g) The Art of Primitive Peoples (4)
- Art 532 Studies in Art History (3-18)
- Art 540 Current Practices in Art Education (3)
- Art 542 Studies in Art Education (3)
- Art 552 Studies in Painting (3-18)
- Art 554 Studies in Sculpture (3-18)
- Art 560 Studies in Ceramics (3-18)
- Art 574 Studies in Printmaking (3-18)
- Art 580 Seminar in Art Education (3)
- Art 581 Graduate Seminar in Art (3)
- Art 599 Thesis (1-6)

Biology Department

Graduate Faculty: Robert Tolbert (Chairperson), Monroe Bartel, Thomas Collins, Yvonne Condell, Oscar Johnson, Phyllis Harber, Jesse Parsons, Richard Pemble, Mary Shimabukuro, Kenneth Skjeggstad, Robert Weibust.

The graduate programs in Biology will be available only through special permission. Interested persons should consult the Graduate Office relative to admission.

Master of Science in Education

The degree may be earned with a major in Biology and according to the general requirements given on pages 3-5.

Master of Science

The Master of Science in Biology is a parallel program to the Master of Science in Education with a major in Biology. A prospective candidate for the M.S. in biology should have completed an undergraduate major or minor in biology. Deficiencies in the student's undergraduate background, as ascertained by the graduate faculty in biology, may be removed by completing appropriate courses for which no graduate credit will be allowed.

The student should consult with the graduate faculty in biology prior to or at the time of filing application for admission to graduate study.

COURSE REQUIREMENTS

A minimum of 45 graduate credits in biology and related areas, as approved by the graduate faculty in biology. This must include at least 15 credits in courses numbered in the 500 series.

A properly balanced program approved by the department graduate committee.

Participation in seminar.

A thesis based upon original research, for which a maximum of 9 graduate credits may be allowed.

Successful completion of a written comprehensive examination and a final oral examination.

The maximum time allowed to complete the requirements for the M.S. in biology is 5 years from the date of admission to graduate study.

BIOLOGY COURSES

- Biol 301(g) Vertebrate Embryology (4)
- Biol 302(g) Histology (4)
- Biol 343(g) Microtechnique (4)
- Biol 350(g) Microbiology (4)
- Biol 355(g) Wildlife Ecology (4)
- Biol 356(g) Plant Ecology (4)
- Biol 401(g) Endocrinology (4)
- Biol 410(g) Parasitology (4)
- Biol 414(g) Protozoology (4)
- Biol 417(g) Ornithology (4)
- Biol 423(g) Plant Anatomy (4)
- Biol 424(g) Plant Physiology I (4)
- Biol 425(g) Plant Physiology II (4)
- Biol 433(g) Plant Morphology: The Lower Forms (4)
- Biol 434(g) Plant Morphology: The Vascular Plants (4)
- Biol 445(g) Limnology (4)
- Biol 449(g) Cytology (4)
- Biol 450(g) Cell Physiology (4)
- Biol 455(g) Recent Developments in the Biological Sciences (2)
- Biol 470(g) Immunology (4)
- Biol 481-482-483(g) Biology Seminar I-II-III (1 each)
- Biol 501 Comparative Embryology (4)
- Biol 502 Comparative Histology (4)
- Biol 510 Advanced Parasitology (4)
- Biol 523 Advanced Plant Anatomy (4)
- Biol 525 Advanced Plant Taxonomy (4)
- Biol 526 Experimental Plant Physiology (4)
- Biol 545 Limnology (4)
- Biol 548 Advanced Topics in Evolution (3)
- Biol 580 Graduate Seminar (1)
- Biol 584 Curriculum and Methods for Secondary Schools (3)
- Biol 599 Research and Thesis (1-9)

Business Administration Department

Graduate Faculty: Edward Powers (Chairperson), Evelyn Larson, David Nelson, James Swenson. Courses offered by the Business Administration Department may be included in the major, Business Education, for the Master of Science in Education degree (see page 3).

FINANCE COURSES

- Finc 341(g) Corporate Finance II (4)
- Finc 342(g) Decision Making in Corporate Financial Management (4)
- Finc 430(g) Problems in Credit and Collection (4)
- Finc 456(g) Principles of Investment (4)
- Finc 457(g) Security Analysis (4)
- Finc 458(g) Portfolio Management (4)
- Finc 498(g) Problems in Finance (1-4)
- Finc 501 Financial Institutions (3)
- Finc 598 Research in Finance (3)

MANAGEMENT SCIENCE COURSES

- MgmS 405(g) Small Business Management (4)
- MgmS 420(g) Analysis of Formal Organizations (4)
- MgmS 421(g) Executive Decision Making (4)
- MgmS 430(g) Managerial Economics (4)
- MgmS 440(g) Personnel Management (4)
- MgmS 450(g) Production and Industrial Management (4)
- MgmS 451(g) Personnel Relations (4)
- MgmS 460(g) Case Studies in Business Management (4)
- MgmS 490(g) Research Methodology in Management (3)
- MgmS 498(g) Problems in Business Administration (1-4)
- MgmS 550 Business and Public Policy (4)
- MgmS 594 Seminar in Business Management (4)
- MgmS 598 Research in Management Science (3)
- MgmS 599 Thesis (1-6)

MARKETING COURSES

- Mktg 410(g) Marketing Logistics (4)
- Mktg 420(g) Marketing Channels and Institutions (4)
- Mktg 421(g) Retail Management (4)
- Mktg 430(g) Sales and Sales Management (4)
- Mktg 441(g) Social Issues in Marketing (4)
- Mktg 442(g) Marketing Seminar (4)
- Mktg 470(g) Independent Study (1-4)
- Mktg 498(g) Problems in Marketing (1-4)
- Mktg 501 Marketing Administration (3)
- Mktg 598 Research in Marketing (3)

Business Education Department

Graduate Faculty: Howard Lysne (Chairperson), Evelyn Grove.

Master of Science In Education

The degree may be earned, with a major designated as Business Education, according to the general requirements given on pages 3-5. The program may include courses from the Department of Business Education and also from the Department of Accounting and the Department of Business Administration.

BUSINESS EDUCATION COURSES

BEd 599 Thesis in Business Education (1-6)

DISTRIBUTIVE EDUCATION COURSES

DEd 401(g) Planning Instruction for Distributive Ed. Classes (2)

DEd 402(g) Using Learning Activities (2)

DEd 403(g) Teaching Vocational Education Subjects (3)

DEd 420(g) Coordination Techniques (3)

DEd 430(g) Vocational Education Curriculum (3)

DEd 440(g) Organization & Administration of Vocational Programs (3)

DEd 498(g) Problems in Business and Distributive Education (1-4)

Chemistry Department

Graduate Faculty: B. Spencer Meeks (Chairperson), Dewey Brummond, Nicholas Kowanko, Dennis Krzyzaniak, Dennis Mathiason, Janet Paulson, James Shaw, Judith Strong, William Treumann.

Master of Science in Education

The degree may be earned with a major in Chemistry. A diagnostic examination is required prior to completion of the first term of enrollment. The general requirements for Plan A (page 4) apply except that 15 hours of course work must be completed in a major area in chemistry. The program must be completed within five years.

Master of Science

Applicants must have completed an undergraduate major in Chemistry. A diagnostic examination is required prior to completion of the first term of enrollment. The program must be completed within five years of first admission.

Within the minimum 45 hours required for the degree at least 15 hours must be in courses in the 500 series. The program must provide a balanced study within chemistry as well as at least 15 hours in an area of major concentration (analytical chemistry, biochemistry, inorganic, organic or physical chemistry). Participation in a graduate seminar is required. A thesis must be presented representing original research contributing to the knowledge of chemistry; a maximum of 15 hours in Chemistry 598 may be granted, for research leading toward the thesis.

A thesis committee, consisting of four graduate faculty members from the Department of Chemistry and a graduate faculty member at large, shall be appointed early following first enrollment. That committee is responsible for planning the program, recommendation to candidacy, and the conduct of the written comprehensive and final examination.

CHEMISTRY COURSES

Chem 361(g) Introduction to Biochemistry (4)

Chem 405(g) Chemical Literature (1)

Chem 424(g) Analysis of Chemical Pollutants (3)

Chem 427(g) Topics in Analytical Chemistry (1-3)

Chem 432(g) Advanced Organic Chemistry (3)

Chem 437(g) Topics in Organic Chemistry (1-3)

Chem 438(g) Chemical Pollutants (4)

Chem 447(g) Topics in Physical Chemistry (1-3)

Chem 457(g) Topics in Inorganic Chemistry (1-3)

Chem 461-462-463(g) General Biochemistry I-II-III (3 each)

Chem 464-465-466(g) General Biochemistry Laboratory I-II-III (1 each)

Chem 467(g) Topics in Biochemistry (1-3)

Chem 480(g) Seminar (1)

Chem 511 Chemical Bonding and Molecular Structure (3)

Chem 531-532 Organic Reaction Mechanisms and Stereochemistry I-II (3 each)

Chem 537 Topics in Organic Chemistry (3)

Chem 541 Chemical Thermodynamics (3)

Chem 546 Chemical Kinetics (3)

Chem 547 Topics in Physical Chemistry (3)

Chem 557 Topics in Inorganic Chemistry (3)

Chem 561 Intermediary Metabolism (3)

Chem 562 Enzymes (3)

Chem 567 Topics in Biochemistry (1-3)

Chem 598 Research (1-5)

Chem 599 Thesis (1-6)

Counseling and Guidance

The Master of Science in Education degree (see page 3) may be earned with a major in Counseling and Guidance, an interdepartmental program involving the departments of Education and Psychology and the college counseling staff. The Dean of Education, Chairman of the Education Department, Chairman of the Psychology Department, Director of Counseling Services and Coordinator of Counselor Education form the Counseling and Guidance Admissions and Program Committee.

The new student should immediately contact the Coordinator of Counselor Education for a personal interview, assistance in initial course planning and information regarding any new requirements of the program. In exceptional cases, the teaching experience requirement may be waived by committee action.

After full admission to graduate study, a student wishing to apply for admission to candidacy in the program must:

Have successfully completed 15 hours of pertinent course work described below with a grade of "B" or better.

Arrange with the Coordinator of Counselor Education to take any inventories or tests prescribed by the Admissions and Program Committee.

Provide the Admissions and Program Committee with at least three written recommendations concerning professional and personal qualifications.

Request the Coordinator of Counselor Education for a personal interview with the Admissions and Program Committee when all other qualifications have been met.

COURSE REQUIREMENTS

Group I - Professional Education (9 credits required)

Ed 501 (3), 502 (3), 503 (3) required.

Group II - Counseling and Guidance Major (27 credits required)

Ed 411g (3), 525 (3), 526 (3), 574 (3), 579 (3) and 591 (6) required.

Electives from

Ed. 412g (3), 512 (3), 550 (3), 560 (3), SpEd 416g (3), 420g (3), 421g (3), 450g (3), 460g (3), 461g (3), 463g (3), 464g (3), Psych 503 (3), 504 (3), 581 (2-6).

Group III - Related Area of Psychology (12 credits required)

Psych 460g (4), 465g (4), 476g (4) required.

Students who do not have the equivalent of one year's undergraduate credit in general psychology will be required to take Psych 103-104-105, Introduction to Psychology, without graduate credit. Credit in these courses does not count toward the 48 credits required to complete this program. Ed 411g must be satisfactorily completed as a prerequisite to all other Group II courses.

If a thesis is done instead of three starred papers, the 6 thesis credits will contribute toward a total minimum of 51 credits. Starred papers may be done in any Group II or Group III course in the program except Ed 591 provided the student's advisor and instructor consent, and provided all requirements for starred papers of the Graduate Studies Committee are met.

Economics Department

Graduate Faculty: Daniel Knighton (Chairperson), Eugene Philipps, John Trainor, Clarence Zuvekas.

Courses offered by the Economics Department may be included in the major, Social Studies (see page 22), for the degree Master of Science in Education.

ECONOMICS COURSES

Econ 410(g) Advanced Micro-Economic Theory (4)

Econ 411-412(g) Economic History of the United States I-II (4 each)

Econ 415(g) Industrial Organization and Public Policy (4)

Econ 416(g) Labor Economics (4)

Econ 425(g) International Trade and Finance (4)

Econ 450(g) Individual Study in Economics (1-4)

Econ 460(g) Advanced Macro-Economic Theory (4)

Econ 499(g) Economics Seminar (3-4)

Econ 501 Macro-Economic Policy (3)

Education Department

Graduate Faculty: Leslie Crawford (Chairperson), Lawrence Anderson, Leonard Bergquist, Joseph DiCola, Howard Freeberg, Jane Johnston, Larry Jones, Bella Kranz, Ronald Litherland, Deane Nelson, Jack Neufeld, George Smith, G. Max Spriggs, Joseph Thorman, Martin Tonn, Barbara Wasson, John Wasson, Thomas Williams.

Master of Science in Education

The degree, general requirements for which are given on pages 3-5, may be earned with the following majors:

Counseling and Guidance (see page 13)

Elementary Education

Candidates for a Master of Science in Education degree in Elementary Education must have completed a satisfactory undergraduate program in Elementary Education.

Specific Admission Test

The score on the Miller's Analogies Test, rather than the Graduate Record Examination, is required for admission to programs in Elementary Education, Counseling and Guidance, and Remedial Reading.

COURSE REQUIREMENTS

Group I - Professional Education (minimum 9 hours)

Ed 501 (3), 502 (3), 503 (3) required.

Group II - Elementary Education Major (minimum 24 hours)

Ed 540 (3), 541 (3), 542 (3) required. Electives from Ed 331g (3), 390g (3), 411g (3), 445g (3), 446g (3), 447g (3), 456g (3), 470g (3), 471g (4), 472g (3), 473g (3), 488g (3), 493g (3), 495g (3), 497g (3), 499g (3), 512 (3), 546 (2), 574 (3), 592 (3), 599 (6), Math 341g (3), Med Ed 356g (3), 445g (3), Science 390g (3).

Group III - (minimum 9 hours)

All students are required to complete a minimum of nine quarter hours in fields other than professional education and the major area. Examples of related areas could include special education, library science, guidance and counseling or psychology.

Elementary School Administration and Supervision

Candidates in this program must have completed a satisfactory undergraduate major in Elementary Education and have three years experience in elementary schools.

COURSE REQUIREMENTS

Group I - Professional Education (minimum 9 hours)

Ed 501 (3), 502 (3), 503 (3) required.

Group II - Elementary School Administration and Supervision Major (minimum 24 hours)

Ed 520 (3), 521 (3), 522 (3), 542 (3) required. Electives from Ed 411g (3), 456g (3), 471g (4), 493g (3), 495g (3), 540 (3), 550 (3), 574 (3), 590 (3), 598 (3), 599 (6), Med Ed 493g (3).

Group III - Related Areas (minimum 9 hours)

All students are required to complete a minimum of nine graduate credits in fields other than professional education and the major area.

Remedial Reading

Candidates for the Master of Science in Education degree must have completed a satisfactory undergraduate teacher education program. Particular courses may be selected to augment preparation at the elementary or secondary level.

COURSE REQUIREMENTS

Group I - Professional Education (9 credits minimum)

Ed 501 (3), 502 (3), 503 (3) required.

Group II - Remedial Reading Major (24 credits minimum)

Ed 411g (3), 446g (2), 512 (3), 526 (3), 545 (3), 546 (2), 574 (3), 592 (3), 599 (6 for Plan A), and Ed 445g (3) for elementary emphasis, or Ed 448g (3) and English 392g (3) for secondary emphasis required.

Group III - Related Fields (9 credits minimum)

At least two courses to be taken from SpEd 420g (3), 461g (3), Psych 460g (4), 476g (4), Soc 415g (3), 418g (3); SpEd 463g (3) and/or Engl 392g (3) for elementary emphasis; SpEd 464g (3) and/or Engl 400g (3) for secondary emphasis.

EDUCATION COURSES

- Ed 331(g) Special Methods in Social Studies in the Elementary School (3)
- Ed 390(g) Improvement of Instruction in Reading and Language Arts (3)
- Ed 405(g) Philosophy of Education (4)
- Ed 411(g) Introduction to Guidance (3)
- Ed 412(g) Group Counseling (3)
- Ed 413(g) Interpersonal Communications (3)
- Ed 425(g) Workshop in Educational Development (1)
- Ed 430(g) Human Relations Through Children's Literature (1-3)
- Ed 442(g) Curriculum Foundations (4)
- Ed 445(g) Remedial and Corrective Reading (3)
- Ed 446(g) Remedial and Corrective Reading Clinic (2)
- Ed 447(g) Corrective Reading and Phonics Workshop (2)
- Ed 448(g) Reading Study Skills in the Content Areas (3)
- Ed 449(g) Developmental Reading (4)
- Ed 456(g) Seminar in Supervision of Student Teaching (3)
- Ed 470(g) Development of Young Children (3)
- Ed 471(g) Curriculum and Instruction in Kindergarten Education (4)
- Ed 472(g) Curriculum and Instruction for Early Childhood Education (3)
- Ed 473(g) Practicum in Early Childhood Education (3-6)
- Ed 476(g) Early Childhood Education Workshop (1-3)
- Ed 480(g) Learning Theory Workshop (1-3)
- Ed 481(g) Curriculum Development Workshop (1-3)
- Ed 488(g) Education for the Culturally Different (3)
- Ed 491(g) Topics in the Socio-Cultural Foundations of Education (1-5)
- Ed 492(g) The Impact of the Educational System on Women (3)
- Ed 493(g) Education for International Understanding (3)
- Ed 495(g) Comparative Education (3)

- Ed 496(g) Study Tour in Comparative and International Education (6)
- Ed 497(g) Readings in Education (3)
- Ed 501 Psychological Foundations of Education (3)
- Ed 502 Statistics in Research (3)
- Ed 503 Introduction to Research (3)
- Ed 504 The School and Society (3)
- Ed 505-510 Junior College-Community College Institute I-VI (2 each)
- Ed 512 Study of the Individual (3)
- Ed 520 Principles of Administration (3)
- Ed 521 Administration of the Elementary School (3)
- Ed 522 Supervision in the Elementary School (3)
- Ed 525 Career Development Guidance (3)
- Ed 526 Principles and Techniques of Counseling (3)
- Ed 540 Studies Affecting Elementary Education (3)
- Ed 541 Seminar in Elementary School Teaching Problems (3)
- Ed 542 Elementary School Curriculum (3)
- Ed 545 Diagnosis and Correction of Reading Difficulties (3)
- Ed 546 Reading Clinic: Diagnosis (2)
- Ed 550 School Law (3)
- Ed 560 Secondary School Curriculum (3)
- Ed 574 Appraisal Techniques (3)
- Ed 579 Organization and Administration of Guidance Service (3)
- Ed 580 Special Problems for Counselors (3)
- Ed 590 Seminar in School Administration and Supervision (1-6)
- Ed 591 Practicum in Counseling and Guidance (3-6)
- Ed 592 Administration and Supervision of Remedial Reading (3)
- Ed 598 Special Research Problems in Education (1-3)
- Ed 599 The Independent Study in Education (1-6)

SPECIAL EDUCATION COURSES

- SpEd 416(g) Mental Retardation (3)
- SpEd 417(g) Orientation to the Physically Handicapped (3)
- SpEd 420(g) Education of the Exceptional Child (3)
- SpEd 421(g) The Gifted Child (3)
- SpEd 422(g) Curriculum and Methods for the Gifted (3)
- SpEd 430(g) Industrial Arts for Special Education Teachers (3)
- SpEd 431(g) Teaching Occupational Education to the Mentally Retarded (3)
- SpEd 435(g) Topics in Mental Retardation (3)
- SpEd 436(g) Problems in Special Education (1-3)
- SpEd 437(g) Workshop in Special Education (4)
- SpEd 440(g) Methods in Teaching the Mentally Retarded (3)
- SpEd 441(g) Language Development for the Mentally Retarded (3)
- SpEd 442(g) Creative Activities for Exceptional Children (2)
- SpEd 445(g) Remedial and Corrective Reading (3)

- SpEd 446(g) Remedial Reading Clinic (2)
- SpEd 456(g) Curriculum Development and Teaching the Trainable Mentally Retarded (2)
- SpEd 457(g) Personal, Social and Vocational Education for the TMR (2)
- SpEd 458(g) Recreative Skills for the Severely Handicapped (2)
- SpEd 459(g) Methods and Materials for Language Development for the Severely Handicapped (2)
- SpEd 460(g) Education of the Emotionally Disturbed Child (3)
- SpEd 461(g) Education of Children with Specific Learning Disabilities (3)
- SpEd 462(g) Topics in Learning Disabilities (3)
- SpEd 463(g) Measurement and Assessment in Special Education (3)
- SpEd 464(g) Education of the Learning Disabled Secondary Student (3)
- SpEd 465(g) Special Education Reading (3)
- SpEd 466(g) Special Education Reading Clinic (2)
- SpEd 467(g) Practicum: Diagnosis and Treatment of Learning Disorders I (6)
- SpEd 468(g) Practicum: Diagnosis and Treatment of Learning Disorders II (6)
- SpEd 470(g) Guidance of the Handicapped (3)
- SpEd 471(g) Behavioral and Environmental Management (3)
- SpEd 472(g) Psycho-Educational Diagnosis and Programming (3)
- SpEd 473(g) Behavior Problems in Children (3)
- SpEd 494(g) Administration of Special Education (3)

Elementary School Administration and Supervision

The major is available in the Master of Science in Education program (see page 14).

Elementary Education

The major is available in the Master of Science in Education program (see page 14).

English Department

Graduate Faculty: Forrest Ingram (Chairperson), Rufus Bellamy, Marjorie Corner, V. Dennis Flood, Clarence Glasrud, Allan Hanna, Bernard Heringman, Gary Litt, Thomas McGrath, Joseph Miller, Robert Pender, Mary Ann Pryor, Donald Short, William Woolwine.

Master of Science in Education

The degree may be earned with a major in English with the following specific conditions:

Prospective candidates should have an undergraduate major in English with a grade-point-average of at least 3.0. Very rarely, students who do not have an undergraduate major in English but who show exceptional promise may be admitted. All candidates for admission to graduate studies in English must submit two letters of recommendation that speak to academic qualifications.

COURSE REQUIREMENTS

Professional Education Courses (9 credits)
 English 300g-, 400g-, or 500-series (21 credits)
 English 500 Literary Scholarship (3 credits)
 English 502-516, 540, 598: two courses (6 credits)
 English 599 Thesis or Symposium (6 credits)
 Total — (45 credits)

Upon formal petition to the Graduate Faculty in English, a candidate for the Master's degree may sometimes be permitted to take as many as 9 credits in a related area instead of 9 credits in English; but he may not omit any of the required credits of English in the 500-series.

If his undergraduate transcript does not show individual courses in Chaucer, Shakespeare, and Milton, and in linguistics or the history of the English language, the student must make up the deficiency by taking appropriate course(s) in his graduate program.

The work of each student intending to take the Master's degree shall be subject to automatic review by a committee of three members of the Graduate Faculty in English at the time he has completed three graduate-level courses at the University. This review will include a report from each of three professors acquainted with the student's work and explicit recommendations from these professors concerning retention in the program. The committee will then decide, on the basis of the review, whether the student is to be allowed to continue graduate studies in the Department. Moreover, any student working toward the degree shall be subject to departmental evaluation of all work upon request of any member of the Graduate Faculty in English.

The student, after having been admitted to candidacy by the Graduate Studies Committee and having completed 30 credits in English but before beginning to write the thesis or symposium, must pass an examination of one of three kinds: (a) on major writers, (b) on major works, or (c) on a comprehensive knowledge of English and American literature. The student is also required to take the comprehensive examination given by the Department of Education.

A candidate for the Master's degree may satisfy the research requirement by either Plan A: a thesis of moderate length (usually under 100 pages) on a subject approved by the advisor; or Plan B: a symposium, likewise on a subject approved by the advisor. The word "symposium" is used here in the unconventional and special sense of "a collection of papers, of a critical or scholarly nature, written by one person." The symposium in English requires three substantial papers, two of them falling in the same field, which are equal in their quality to an acceptable thesis and have been undertaken with the same degree of independence that one brings to the writing of a thesis.

The first task of the candidate is to get the thesis or symposium into respectable first-draft shape under the general direction of the advisor. At this point the candidate must submit the draft to the examination committee and then make whatever revisions are required by its members.

ENGLISH COURSES

- Engl 301-302-303(g) Early English Literature I-II-III (4 each)
- Engl 311-312-313(g) English Literature of the 16th Century I-II-III (4 each)
- Engl 321-322-323(g) English Literature of the 17th Century I-II-III (4 each)
- Engl 331-332-333(g) English Literature of the Restoration and 18th Century I-II-III (4 each)
- Engl 341-342-343(g) English Literature of the Romantic Movement I-II-III (4 each)
- Engl 351-352-353(g) English Literature of the Victorian Period I-II-III (4 each)
- Engl 361-362-363(g) English and American Literature of the 20th Century I-II-III (4 each)
- Engl 376-377-378(g) Development of the Drama I-II-III (4 each)
- Engl 381(g) World Literature I: Greece (4)
- Engl 391(g) Teaching English in the Secondary School (4)
- Engl 392(g) Adolescent Literature (3)
- Engl 393(g) Language and Composition in the Secondary School (3)
- Engl 397-398-399(g) History of the English Language I-II-III (4 each)
- Engl 400(g) Introduction to Descriptive Linguistics (4)
- Engl 401(g) Transformational Grammar (4)
- Engl 402(g) Practical Criticism (4)

- Engl 404(g) Advanced Shakespeare (4)
- Engl 408(g) The 18th Century Novel (4)
- Engl 412(g) The 19th Century Novel (4)
- Engl 416(g) Individual Authors (4)
- Engl 424(g) Restoration and 18th Century Drama (4)
- Engl 430(g) Significant Books in American Culture (4)
- Engl 432(g) Hawthorne, Melville, and Poe (4)
- Engl 434(g) Emerson, Thoreau, and Whitman (4)
- Engl 436(g) Twain, Howells, and James (4)
- Engl 438(g) Special Topics in English (4)
- Engl 442(g) Contemporary Fiction (4)
- Engl 446(g) Contemporary Drama (4)
- Engl 448(g) The Short Story (4)
- Engl 471-472-473(g) Literary Criticism I-II-III (4)
- Engl 481(g) Comparative Literature I: The Older Literature of Scandinavia (4)
- Engl 482(g) Comparative Literature II: Ibsen and Strindberg (4)
- Engl 483(g) Comparative Literature III: The Modern Scandinavian Novel (4)
- Engl 490(g) History of Books and Printing (3)
- Engl 500 Literary Scholarship (3)
- Engl 502 Studies in Shakespeare (3)
- Engl 504 Studies in 16th-Century Literature (3)
- Engl 506 Studies in 17th-Century Literature (3)
- Engl 508 Studies in 18th-Century Literature (3)
- Engl 510 Studies in 19th-Century Literature (3)
- Engl 512 Studies in 20th Century Literature (3)
- Engl 514 Studies in American Literature (3)
- Engl 516 Studies in Modern Literary Theory (3)
- Engl 540 Problems in Secondary School English (3)
- Engl 598 Directed Readings in English (3)
- Engl 599 Thesis in English (1-6)

Geography and Geology Department

Graduate Faculty: Eleanor Ritchie (Chairperson)

GEOGRAPHY COURSES

- Geog 410(g) Regional Geography Seminar (4)
- Geog 411(g) Geographic Factors in Cultural Development (3)
- Geog 420(g) Historical Geography of the United States (3)
- Geog 444(g) Seminar in Geographic Thought (2)
- Geog 480(g) Seminar in Conservation (3)
- Geog 490(g) Special Problems in Geography (1-4)
- Geog 495(g) Field Techniques in Geography (4)

Health, Physical Education, and Recreation Department

Graduate Faculty: William Thomas (Chairperson)
Donald Anderson, Loel Frederickson, Dwaine Hoberg,
Laurence MacLeod, Mary Montgomery, Orlow Nokken,
T. Edison Smith.

Master of Science in Education

The degree may be earned with a major in Health, Physical Education and Recreation, according to the general requirements given on pages 3-5.

HEALTH COURSES

- Hlth 412(g) Marriage and Family Life Education (4)
- Hlth 465(g) Organization and Administration of School Health Education (3)
- Hlth 469(g) Internship (3-16)
- Hlth 474(g) Workshop in Health Education (2)
- Hlth 476(g) Seminar in Health Problems (2-6)
- Hlth 540 Problems in Health Education (3)
- Hlth 565 Coordination of School Health Education (3)
- Hlth 599 Thesis in Health (6)

PHYSICAL EDUCATION COURSES

- PE 380(g) Supervision of Physical Education in the Elementary School (4)
- PE 421(g) Physiology of Exercise (3)
- PE 452(g) Adapted Physical Education (3)
- PE 475(g) Administration of Athletics (3)
- PE 495(g) Administration of Physical Education (3)
- PE 505 History and Philosophy of Physical Education (3)
- PE 540 Problems in Physical Education (3)
- PE 560 Studies in Athletic Training (3)
- PE 574 Tests and Measurements in Physical Education (3)
- PE 599 Thesis in Physical Education (6)

RECREATION COURSES

- Rec 465(g) Organization and Administration of Recreation (3)
- Rec 540 Problems in Recreation (3)
- Rec 599 Thesis in Recreation (6)

History Department

Graduate Faculty: Robert Davies (Chairperson),
Dieter Berninger, William Eagan, Lee Grugel,
Christopher Hong, Murray Kranz, Lysle Meyer,
Victor Peters, I. Kenneth Smemo, Nelson Whyatt.

Courses offered by the History Department may be included in the major, Social Studies (see page 22), for the degree Master of Science in Education.

HISTORY COURSES

- Hist 307(g) Studies in Asian History (3-4)
- Hist 308(g) Studies in African History (3-4)
- Hist 309(g) Studies in Latin American History (3-4)
- Hist 310(g) Studies in European History (3-4)
- Hist 311(g) Studies in North American History (3-4)
- Hist 312-313-314(g) Ancient History I-II-III (3 each)

- Hist 315(g) Medieval Europe (3)
- Hist 316(g) The Renaissance (3)
- Hist 317(g) The Reformation (3)
- Hist 318-319-320(g) History of Germany I-II-III (3 each)
- Hist 331-332-333(g) Russian History I-II-III (3 each)
- Hist 338-339(g) Intellectual History of Western Civilization I-II (4 each)
- Hist 357-358(g) United States Foreign Relations I-II (3 each)
- Hist 359(g) National Histories (2-4)
- Hist 364-365(g) Economic History of the United States I-II (4 each)
- Hist 366-367(g) Constitutional History of the United States I-II (4 each)
- Hist 368-369(g) Social and Intellectual History of the United States I-II (4 each)
- Hist 370(g) The American West (4)
- Hist 371-372(g) Colonial America I-II (3-4 each)
- Hist 381-382(g) History of Canada I-II (3 each)
- Hist 402(g) Seminar in African History (3-4)
- Hist 403(g) Seminar in Latin American History (3-4)
- Hist 404(g) Seminar in European History (3-4)
- Hist 405(g) Seminar in North American History (3-4)
- Hist 560 Tutorial in History: Graduate (1-3)
- Hist 599 Thesis in History (1-6)

Industrial Education Department

Graduate Faculty: Marlowe Wegner (Chairperson),
Albert Mudgett, Otto Ursin, Leland White.

Master of Science in Education

The degree may be earned with a major in Industrial Education. The general requirements for the degree are given on pages 3-5.

INDUSTRIAL EDUCATION COURSES

- IE 420(g) Wood Technology (4)
- IE 430(g) Tour of Industry (1-2)
- IE 441(g) Measurement in Vocational Education (3)
- IE 444(g) Industrial Design (3)
- IE 446(g) Visual Materials for Vocational Education (2)
- IE 450(g) Graphic Arts Technology (4)
- IE 460(g) The General Shop (4)
- IE 461(g) Career Education (3)
- IE 480(g) Special Problems in Vocational Education (1-6)
- IE 485(g) Construction Processes (4)
- IE 486(g) World of Manufacturing (4)
- IE 491(g) Materials Inspection and Testing (4)
- IE 494(g) Trends and Developments in Industrial Education (3)
- IE 495(g) Philosophy of Vocational Education (3)
- IE 496(g) Literature of Vocational Education (3)
- IE 497(g) Curriculum Planning in Vocational Education (3)
- IE 498(g) Coordination of Vocational Education (3)
- IE 505 History of Industrial Education (3)
- IE 510 Current Issues of Industry (3)
- IE 599 Thesis in Industrial Education (1-6)

Languages Department

Graduate Faculty: G. Theodore Schaum (Chairperson).

FRENCH COURSES

- Fren 440(g) Advanced Seminar in French Literature, Culture and Language (3)
- Fren 480(g) Special Topics in French Literature and Culture (2-4)
- Fren 487(g) Studies in the French Language (3)

GERMAN COURSES

- Ger 411(g) Survey of German Literature (4)
- Ger 440(g) Advanced Seminar in German Literature, Culture, and Language (3)
- Ger 480(g) Special Topics in German Literature and Culture (2-4)

SPANISH COURSES

- Span 425-426-427(g) Advanced Spanish Composition and Conversation I-II-III (3 each)
- Span 431(g) Nineteenth Century Novel of Spain (3)
- Span 432(g) Twentieth Century Novel of Spain (3)
- Span 433(g) Twentieth Century Poetry and Drama of Spain (3)
- Span 434-435(g) Spanish American Prose Fiction I-II (3 each)
- Span 436(g) Latin-American Poetry, 1890 To Present (3)
- Span 480(g) Special Topics in Spanish Literature and Culture (2-4)

Mass Communications Department

Roger Hamilton (Chairperson)

MASS COMMUNICATIONS COURSES

- MC 350(g) Basic Television Production (3)
- MC 440(g) Communication Law and Civil Rights (3)
- MC 496(g) News-Editorial Workshop (1-3)
- MC 497(g) Advertising-Public Relations Workshop (1-3)
- MC 580 Problems in Mass Communications (1-4)

Mathematics Department

Graduate Faculty: Derald Rothmann (Chairperson), Milton Legg, Don Mattson, Bill Ritchie, Marion Smith, Warren Thomsen, James Wallen, Fike Zahroon.

Master of Science in Education

The degree may be earned with a major in Mathematics. General requirements for the degree are given on pages 3-5.

Candidates are expected to provide evidence of proficiency in undergraduate Mathematics. A candidate is expected to include in the course selection (either within the program or prior) all required 400-level courses in the existing undergraduate major plus at least 16 hours of mathematics courses which are not required by the undergraduate major. A second course in at least two of the following areas is required: algebra, geometry, analysis, mathematical statistics, applied mathematics. Written comprehensive examinations will be administered in general mathematics and two mathematical areas according to the program planned by the candidate and the advisor and approved by the department.

MATHEMATICS COURSES

- Math 341(g) Special Methods in Mathematics in the Elementary School (3)
- Math 400(g) History of Mathematics (3)
- Math 401(g) Statistical Methods for Business Management (3)
- Math 415(g) Foundations of Geometry (4)
- Math 416(g) Modern Geometry (4)
- Math 423(g) Foundations of Algebra (3)
- Math 424-425(g) Abstract Algebra I-II (4 each)
- Math 427(g) Linear Algebra (4)
- Math 444(g) Diagnosis and Remediation of Learning Difficulties in Mathematics (3)
- Math 445(g) Computers in Secondary Mathematics (3)
- Math 450(g) Numerical Analysis I (4)
- Math 451(g) Numerical Analysis II (3)
- Math 461-462-463(g) Introduction to Real Analysis I-II-III (4 each)
- Math 465(g) Applied Analysis (4)
- Math 466(g) Fourier Series and Boundary Value Problems (4)
- Math 467(g) Complex Analysis (4)
- Math 474(g) Probability (4)
- Math 475-476(g) Mathematical Statistics I-II (4 each)
- Math 480(g) General Topology (4)
- Math 495(g) Theory of Numbers (4)
- Math 540 Problems of Secondary School Mathematics (3)
- Math 590 Special Problems in Mathematics (1-6)
- Math 599 Thesis in Mathematics (1-6)

Media Education Department

Evelyn Swenson (Chairperson), Graduate Faculty: Darrel Meinke

MEDIA EDUCATION COURSES

- MeEd 345(g) Production of Instructional Materials, Non-Projected (3)
- MeEd 347(g) Production of Instructional Materials, Projected (3)
- MeEd 356(g) Audiovisual Materials and Methods (3)
- MeEd 420(g) Administration of the School Media Center (4)
- MeEd 430(g) Materials for the Elementary School (4)
- MeEd 440(g) Materials for the Secondary School (4)
- MeEd 450(g) Media Services in Elementary and Secondary Schools (3)
- MeEd 455(g) Radio and Television in Education (3)
- MeEd 465(g) Technology of Instructional Systems (3)
- MeEd 470(g) Problems in Media Education (2-6)
- MeEd 490(g) History of Books and Printing (3)
- MeEd 493(g) Administering Audiovisual Programs (3)

Music Department

Graduate Faculty: Donald Key (Chairperson), Earnest Harris, Norman Hessert, Albert Noice, Robert Pattengale, Andrew Smith.

Master of Science in Education

The degree may be earned with a major in Music according to the general requirements given on pages 3-5.

The degree is designed for vocal and instrumental public school teachers. An initial qualifying examination is taken during the period of the first enrollment. Any determined deficiencies must be made up at the undergraduate level.

Either Plan A or Plan B may be followed. The program should include, in addition to 9 hours of professional education, 27 hours of music and 9 hours outside the area of professional education and music.

MUSIC COURSES

- Mus 316(g) Composition (3)
- Mus 343(g) Instrumental Conducting II (2)
- Mus 347(g) Choral Conducting II (2)
- Mus 373(g) American Music (3)
- Mus 378(g) Collegium Musicum (1)
- Mus 382(g) Solo and Ensemble Literature for Brass (1)
- Mus 383(g) Solo and Ensemble Literature for Woodwinds (1)
- Mus 398-404(g) Small Ensemble (1 each)
- Mus 406(g) Opera (2)
- Mus 409(g) Psychology of Music (3)
- Mus 410(g) Orchestration (3)
- Mus 411(g) Band Arranging (3)
- Mus 413(g) 16th Century Polyphony (3)
- Mus 414(g) Techniques of Musical Interpretation (3)
- Mus 430(g) Electronic Music I (3)
- Mus 431(g) Electronic Music II (3)
- Mus 441(g) Piano Pedagogy I (2)
- Mus 442(g) Piano Pedagogy II (2)
- Mus 443(g) Pedagogy of Theory (3)
- Mus 444(g) String Methods and Materials (2)
- Mus 445(g) Stage Band Methods and Materials (2)
- Mus 446-447(g) Voice Pedagogy I-II (1 each)
- Mus 450-468(g) Private Instruction, Level IV (1-2 each)
- Mus 502 Research in Music and Music Education (3)
- Mus 504 Workshops in Secondary School Music (2)
- Mus 505 Graduate Recital (1-2)
- Mus 510 Directed Study in Music Theory (3)
- Mus 540 Problems in Teaching and Supervising Music (3)
- Mus 541 Advanced Studies in Teaching Elementary School General Music (3)
- Mus 542 Advanced Studies in Teaching Vocal Music in Secondary Schools (3)
- Mus 545 Voice-Choral Techniques Institute (3)
- Mus 550-568 Private Instruction, Level V (1-2 each)
- Mus 570 Introduction to Musicology (3)
- Mus 571 Music in the Middle Ages (3)
- Mus 572 Music in the Renaissance (3)
- Mus 573 Music in the Baroque (3)
- Mus 574 Music in the Classic Era (3)
- Mus 575 Music in the Romantic Era (3)
- Mus 576 Music in the 20th Century (3)
- Mus 599 Thesis in Music (1-6)

Philosophy Department

Graduate Faculty: Charles Magel (Chairperson), Arnold Johanson.

PHILOSOPHY COURSES

- Phil 340(g) Advanced Ethics (4)
- Phil 380(g) Plato (4)
- Phil 381(g) Aristotle (4)
- Phil 385(g) Continental Rationalism (4)
- Phil 390(g) British Empiricism (4)
- Phil 410(g) Nineteenth Century Philosophy (4)
- Phil 420(g) Contemporary Analytic Philosophy (4)
- Phil 430(g) Kant (4)
- Phil 440(g) Selected Philosophical Problem (1-4)
- Phil 450(g) Seminar on Major Philosopher (4)
- Phil 490(g) Independent Study (2-4)

Physics Department

Gerald P. Hart (Chairperson). Graduate Faculty: Emil Kochis, Walter Wesley, Hsin-Yang Yeh

PHYSICS COURSES

- Phys 330-331-332(g) Intermediate Mechanics I-II-III (3 each)
- Phys 345(g) Aerospace Education Workshop (4)
- Phys 370-371-372(g) Electromagnetic Theory and Physical Optics I-II-III (3 each)
- Phys 430(g) Introduction to Wave Mechanics (3)
- Phys 431(g) Atomic and Molecular Physics (3)
- Phys 432(g) Nuclear and Solid State Physics (3)
- Phys 490(g) Physics Seminar (1 each)
- Phys 499(g) Special Problems in Physics (1-4)

Political Science Department

Graduate Faculty: David Flint (Chairperson), John Calvert, Edward Estes, Anoushiravan Khoshkish.

Courses offered by the Political Science Department may be included in the major, Social Studies (see page 22), for the degree Master of Science in Education.

POLITICAL SCIENCE COURSES

- Pol 311(g) American Political Thought (4)
- Pol 312(g) Communist and Marxist Foundations of Government (3)
- Pol 341(g) Policy and Administration (3)
- Pol 352(g) Political Problems in Developing Countries (3)
- Pol 355(g) Politics of Scandinavia (3)
- Pol 360(g) American Foreign Policy (4)
- Pol 361(g) Topics in International Law (3 each, may be repeated)
- Pol 362(g) Topics in International Organizations (3 each, may be repeated)
- Pol 410(g) Topics in Western Political Thought (4 each, may be repeated)

- Pol 411(g) Eastern Political Thought (3)
- Pol 420(g) Seminar in American Politics (3)
- Pol 430(g) Topics in Constitutional Law (2-4 each, may be repeated)
- Pol 431(g) Social Work and the Law (3)
- Pol 455(g) Topics in Comparative Government (2-4, may be repeated for credit)
- Pol 460(g) International Politics (4)
- Pol 461(g) Independent Study in Political Science (1-6)
- Pol 490(g) Senior Seminar in Political Science (2-4)
- Pol 590 Graduate Seminar in Political Science (2-4)
- Pol 599 Thesis in Political Science (1-6)

Psychology Department

Graduate Faculty: James Condell (Chairperson), Bradley Bremer, Rudolph Chang-Yit, David Cole, Richard Reed, Phillip Rice, Helen Wilson.

Master of Science in Education

The degree may be earned with a School Psychologist major. Requirements are those cited on pages 3-5 with the following specific conditions:

In addition to the general requirements for admission the applicant must submit an undergraduate grade point average of at least 3.0 (B), the preparation to include at least 12 quarter hours of general or introductory psychology. The score for the Psychology Advanced Test of the Graduate Record Examination must be furnished. Three letters of recommendation are required and arrangements must be made to take personal-measure and interest-inventory tests administered by the department. Students are admitted only on a full-time basis.

Admission to candidacy is determined by a departmental committee. The curriculum is designed to meet requirements for School Psychologist I certification in the State of Minnesota. Certification in a teaching field is not required for School Psychologist I certification, or for enrollment in the 9 hours of professional education courses although completion of a course in education psychology is required prior to such enrollment.

The program must be completed under Plan A, the thesis being either research or theory-oriented.

COURSE REQUIREMENTS

Group I - Professional Education (9 hours minimum)

Ed. 501, 502, 503 required.

Group II - School Psychology Major (33 hours minimum)

Psych. 460g, 465g, 476g, 500, 501, 502, 503, 504, 505, 506, 599 required.

Group III - Electives (6 hours minimum)

Selected from education, counseling and guidance, psychology, remedial reading, social work, sociology, special education, speech pathology.

PSYCHOLOGY COURSES

- Psy 401(g) Child Psychology (4)
- Psy 402(g) Adolescent Psychology (4)
- Psy 403(g) Human Development (4)
- Psy 442(g) Learning (4)
- Psy 444(g) Motivation and Emotion (4)
- Psy 445(g) Physiological Psychology (4)
- Psy 446(g) Perception (4)
- Psy 447(g) Comparative Psychology (4)
- Psy 448(g) Cognition (4)
- Psy 460(g) Abnormal Psychology (4)
- Psy 465(g) Clinical Psychology (4)
- Psy 470(g) History and Systems of Psychology (4)
- Psy 476(g) Theories of Personality (4)
- Psy 481(g) Seminar in Psychology (4)
- Psy 491(g) Problems in Psychology (4)
- Psy 495(g) Field Work in Psychology (2-4)
- Psy 500 Seminar in Professional School Psychology (1)
- Psy 501 Introduction to School Psychological Services (3)
- Psy 502 Theory and Principles of Measurement (3)
- Psy 503 Individual Psychological Testing (3)
- Psy 504 Advanced Individual Psychological Testing (3)
- Psy 505-506 Practicum in School Psychology I-II (2 each)
- Psy 581 Readings in Psychology (2-4)
- Psy 599 Thesis in Psychology (1-6)

Remedial Reading

The major is available in the Master of Science in Education program (see page 14).

School Psychology

The major is available in the Master of Science in Education program (see Psychology Department).

Social Services Department

Graduate Faculty: Margaret Reed (Chairperson)

SOCIAL SERVICES COURSES

- SSer 403(g) Personal and Social Aspects of Illness (3)
- SSer 404(g) Rural Social Work (3)
- SSer 425(g) Topical Seminar in Social Work (1-9)
- SSer 431(g) Social Legislation (3)
- SSer 498(g) Social Services Workshops (1-3)

Social Studies

The Master of Science in Education degree (see page 3) may be earned with a major in Social Studies, an inter-departmental program involving the departments of Economics, History, Political Science, and Sociology and Anthropology. Admission may be provided to work in a program with either a departmental or an area concentration. Persons seeking admission to the program with an area concentration should consult with a Graduate Faculty member in one of the participating departments in order to prepare a plan of studies to be presented with the application. The program options are:

Departmental Concentration

The program is completed with a thesis. Of the 45 credits required in a minimum program at least 24-27 credits (including six credits of thesis) are taken in one department. Nine to 12 credits are to be taken in other departments in the area, and nine credits are taken in professional education.

Area Concentration Plan A

The student plans a program with a committee appointed at the time of admission. At least thirty-six credits must be taken with at least three departments, and distributed so that no more than 18 credits (including six credits of thesis) are taken in any one department. The program will include at least nine credits in professional education.

Area Concentration Plan B

An individualized program is planned by the student working with a committee appointed at the time of admission. At least thirty-six credits are taken in courses of the participating departments and distributed so that not less than nine credits are earned in each of three departments and not more than 18 credits in any one department. Three starred papers are written, relating to at least two departments in the area. At least nine credits will be taken in professional education.

Sociology and Anthropology Department

Graduate Faculty: Nancy Parlin (Chairperson), Marjorie Brunton, Swaran Sandhu.

Courses offered by the Sociology and Anthropology Department may be included in the major, Social Studies (see page 22), for the degree Master of Science in Education.

ANTHROPOLOGY COURSES

- Anth 445(g) Seminar in Anthropology (4)
- Anth 461(g) Readings in Anthropology (1-8)

SOCIOLOGY COURSES

- Soc 414(g) Topics in Political Sociology (3)
- Soc 415(g) Social Organization (3)
- Soc 417(g) Topics in Sociology of Change (3)
- Soc 418(g) Sociology of Education (3)
- Soc 425(g) Seminar in Sociology (3)
- Soc 435(g) Sociology of Health and Medicine (3)
- Soc 449(g) Topics in Social Stratification (3)
- Soc 452(g) Topics in Advanced Research Techniques (3)
- Soc 461(g) Readings in Sociology (1-6)
- Soc 500-501 Sociological Theory I-II (3 each)
- Soc 510 Individual Research (3-6)
- Soc 512 Topical Seminar in Sociology (3-6)
- Soc 560 Studies in Sociology (3)
- Soc 599 Thesis in Sociology (1-6)

Speech Department

Graduate Faculty: Delmar Hansen (Chairperson), Robert Badal, Virgil Black, Timothy Choy, K. Dale Gronhovd, Davis Scott, Arne Teigland.

Master of Science in Education

Programs are available in two areas of concentration. The general requirements (pages 3-5) apply in each program, specific conditions being cited as they exist.

THEATRE MAJOR

This program is available to qualified students who seek careers in the educational or professional theatre. Applicants should present an undergraduate major or minor in theatre, although exceptions may be made for promising applicants whose undergraduate preparation is in cognate fields such as English, art, or music. Those applicants who lack a well-balanced background in theatre may expect that additional coursework to correct deficiencies will be required by their major advisor.

In addition to nine hours of professional education courses, the student is advised to concentrate in either two or three of the following areas: dramatic literature and theatre history; technical theatre, acting and directing; or educational theatre. If three areas are selected, twelve hours of credit for each should be chosen; if only two areas, the student may choose from twelve to twenty-four for each (to total thirty-six hours). For those students without solid undergraduate preparation in dramatic literature and theatre history, the Department recommends inclusion of this area, since the comprehensive examination demands a thorough understanding of the history, literature, and theory of the dramatic art.

SPEECH PATHOLOGY AND AUDIOLOGY MAJOR

An undergraduate major in speech pathology and audiology is recommended but not mandatory. The prospective candidate who has limited or no background in this area of study, or who does not qualify for speech pathology certification in the State of Minnesota, will be expected to remove deficiencies by taking basic undergraduate courses for which no graduate credit will be allowed.

Most candidates for the Master's degree will also want to qualify for certification from the American Speech and Hearing Association and should keep these standards in mind when planning their graduate studies. This certification requires a total of 90 quarter hours of credit (undergraduate and graduate) constituting a well-integrated program that includes 27 hours in courses fundamental to an understanding of the normal process of speech, hearing, and language, and 63 hours in professional and related courses; 45 of these 63 hours must be in courses which may be taken for graduate credit. (A total of 275 clock hours of supervised direct clinical experience must be accumulated). The candidate should allow sufficient time and plan the program carefully, with the advice and consultation of the advisor if wishing to meet not only the requirements for the degree, but also the requirements for certification.

In addition to the required professional educational courses, candidates must complete a minimum of 30 credits in the major, including 6 credits in 566, 12 credits in 550, 561, 562, 563, and 12 credits in elective courses in the major. Candidates may select courses in such related areas of study as psychology, linguistics, counseling and guidance, audiology, speech and special education.

SPEECH COURSES

- Spch 340(g) The Teaching of Speech (4)
- Spch 342(g) High School Speech and Drama Activities (4)
- Spch 345(g) Speech in the Elementary Classroom (3)
- Spch 416(g) Special Projects in Rhetoric and Public Address (4)
- Spch 540 Problems in Speech Education (3)

THEATRE COURSES

- Spch 322(g) Development of the Drama I (4)
- Spch 324(g) Development of the Drama II (4)
- Spch 326(g) Development of the Drama III (4)
- Spch 328(g) The American Theatre (4)
- Spch 330(g) Dramatic Production I (3-6)
- Spch 331(g) Dramatic Production II (3-6)
- Spch 332(g) Advanced Acting I: Stage Movement (4)
- Spch 333(g) Advanced Acting II: Characterization (4)
- Spch 334(g) Principles of Scene Design (4)
- Spch 336(g) Advanced Scene Design (4)
- Spch 337(g) Stage Lighting (4)
- Spch 338(g) Stage Costume Design (4)
- Spch 341(g) Children's Dramatics (4)
- Spch 344(g) Principles of Play Direction (4)
- Spch 429(g) Advanced Play Direction (4)
- Spch 430(g) Styles of Directing (4)
- Spch 431(g) Styles of Acting (4)
- Spch 434(g) Special Projects in Dramatic Arts (4)
- Spch 436(g) Experimental Theatrical Design (4)
- Spch 437(g) Styles of Stage Design (3)
- Spch 438(g) Contemporary Drama (4)
- Spch 520 Seminar in Educational Theatre (3)
- Spch 522 Dramatic Theory and Criticism (3)
- Spch 599 Thesis in Speech-Theatre (1-6)

SPEECH PATHOLOGY COURSES

- SPAA 452(g) Speech Anatomy and Physiology (4)
- SPAA 458(g) Language Development for the Handicapped (3)
- SPAA 467(g) Diagnostic and Appraisal Procedures (4)
- SPAA 468(g) Speech and Hearing Problems in the Classroom (3)
- SPAA 472(g) Advanced Audiometry (3)
- SPAA 479(g) Readings in Speech Pathology and Audiology (1-3)
- SPAA 550 Research in Speech Pathology and Audiology (3)
- SPAA 551 Organic Voice Disorders (3)
- SPAA 552 Structural Speech Disorders (3)
- SPAA 553 Neurological Speech Disorders (3)
- SPAA 561 Seminar in Articulation (3)
- SPAA 562 Seminar in Stuttering (3)
- SPAA 563 Aphasia (3)
- SPAA 566 Clinical Practicum (1-3)
- SPAA 571 Seminar in Audiology (3)
- SPAA 579 Topical Seminar in Speech Pathology and Audiology (3)
- SPAA 599 Thesis in Speech Pathology and Audiology (1-6)

Speech Pathology and Audiology

The major is available in the Master of Science in Education program (see Speech Department).

Speech Theatre

The major is available in the Master of Science in Education program (see Speech Department).

new programs

Master of Business Administration

This program is designed as a formal learning experience for the practitioner seeking a foundation for steady growth as a professional manager. Applicants must hold a Bachelor's degree from an accredited institution, and are required to provide scores on the Graduate Management Admission Test, letters of recommendation, and a personal statement of qualifications and career objectives. There must be demonstrated a proficiency in elementary economics (macro and micro), and elementary statistics prior to admission. Any deficiency following admission in basic finance, marketing, management (one course each), and accounting (one-year sequence) must be removed before graduate courses in the corresponding functional areas may be taken.

GENERAL COURSE REQUIREMENTS

The program requires a minimum of 48 quarter credits, in which a minimum grade point average of 3.0 is required. Not more than 9 credits earned at this or other accredited institutions prior to admission may be counted toward the minimum requirements for the degree. A maximum of 15 quarter credits included in a previously approved program may be accepted in transfer from other accredited institutions; however, at least 24 credits must be earned through registrations at this University in offerings by its faculty. The course requirements are as follows:

Business Core (15 credits)

Finc. 501 Financial Institutions (3)
MgmS 550 Business Policy (3)
Mktg. 501 Marketing Administration (3)
Acct. 501 Management Law (3)
Acct. 530 Managerial Accounting (3)

Business Tools (10 credits)

Math 401g Statistical Tools for Business Management (3)
MgmS 430g Managerial Economics (4)
Econ 501 Macroeconomic Policy (3)

Electives (20 credits)

At least 3 of the courses must come from these listed.

Acct. 335g Governmental Accounting (3)
Finc. 456g Principles of Investment (4)
MgmS 420g Formal Organizations (4)
MgmS 451g Human Relations in Business (4)
Mktg. 410g Marketing Logistics (4)

Research (3 credits)

Registration in Research 598 (Acct., Econ., Finc., MgmS, Mktg.)

Research Components

The student is required to complete starred papers in each of two 500 level courses other than 598. These papers are beyond the regular requirements of the courses and must be planned for with the course instructor at the first class meeting. A third paper will evolve from research at the 598 level. Thesis style and technique will be required for this paper, although the breadth of the study and length of the paper will be less than that normally expected of a Thesis. All papers, prepared in original and two copies, will be presented at the time of requesting a final examination and will be available to the committee at that examination.

Candidacy

It is essential that the student, upon admission, consult with the assigned adviser to plan initial registration and to discuss possible research interests. Prior to the completion of more than 16 credits, six hours of which must have been in courses at the 500 level, the student will present a planned program of study, with Research Components identified, and a petition for the formation of an Advisory Committee (a research adviser as chairperson, plus two additional members of the Graduate Faculty from areas in which course-work is to be taken). The program and Committee request is reviewed by the MBA Program Committee which may recommend, for approval, to the Graduate Office. Upon approval of the program and Advisory Committee by the Graduate Dean, the student is admitted to Candidacy for the degree. All requirements for the degree must be completed within seven calendar years.

Final Examination

The Final Examination shall be oral and conducted by the Advisory Committee, plus an External Examiner to be appointed by the Graduate Dean. The examination will be conducted primarily toward the research, but may also deal with other components of the program.

At least two weeks prior to the Final Examination the Candidate shall present to the Graduate Studies Office the original and two copies of each of two starred papers and the Research paper, an abstract prepared according to instructions from the Graduate Studies Office, and a request for the Final Examination. The Final Examination must be passed at least two weeks prior to the date of the Commencement at which the degree may be conferred.

Final Report

After the Final Examination has been successfully completed, the student presents the starred papers and Research paper, with any additions or corrections required by the Advisory Committee, to the University Library for binding. The librarian will, on receipt of the binding fee,

verify the deposit of the papers by signing the final report form. The student is responsible for submitting the final report form, with required signatures, to the Graduate Studies Office at least two days prior to the date of Commencement.

Specialist in Education

The degrees, Specialist in Education and Master of Science, are offered in the field of educational administration. Both degrees provide competency-based programs in the various certification areas appropriate to elementary and secondary school administration. The degree granting institution is the Tri-College University, a consortium composed of Moorhead State University, North Dakota State University, and Concordia College. Application forms and information may be obtained from the Graduate Studies Office.

academic calendar

1975-76

	Fall Quarter 1975	Winter Quarter 1976	Spring Quarter 1976	Summer, 1976	
				Session 1	Session 2
Registration and Payment of fees	Sept. 8-9	Dec. 1	Mar. 9	June 14	July 19
Classes begin	Sept. 10	Dec. 2	Mar. 10	June 14	July 19
Midterm	Oct. 17	Jan. 21	April 15		
Last day to apply for Oral Examination for degree in term	Oct. 28	Jan. 30	April 23	June 18	July 23
Last day to complete Written Comprehensive Examination for degree in term	Nov. 4	Feb. 6	April 30	June 25	July 30
Last day for Oral Examination	Nov. 11	Feb. 13	May 7	July 2	Aug. 6
Last day to submit Thesis to Library and Final Report for degree in term	Nov. 21	Feb. 27	May 21	July 14	Aug. 18
Last day to apply for degree to be awarded next term	Nov. 25	Mar. 2	May 26	July 16	Aug. 20
Final Examinations	Nov. 19-21	Feb. 25-27	May 24-26	July 16	Aug. 20
Term Closes	Nov. 25	Mar. 2	May 26	July 16	Aug. 20
Commencement			May 27		Aug. 20
Vacations (inclusive dates)	Oct. 13 Nov. 11	Dec. 20-Jan. 4 Feb. 16	April 16-19	July 4	

1976-77

	Fall Quarter 1976	Winter Quarter 1977	Spring Quarter 1977	Summer, 1977	
				Session 1	Session 2
Registration and Payment of fees	Sept. 7-8	Dec. 1	Mar. 9	June 13	
Classes Begin	Sept. 9	Dec. 1	Mar. 9	June 13	July 18
Midterm	Oct. 13	Jan. 29	Apr. 15		
Last day to apply for Oral Examination for degree in term	Oct. 29	Feb. 4	Apr. 26	June 17	July 22
Last day to complete Written Comprehensive Examination for degree in term	Nov. 5	Feb. 11	May 3	June 24	July 29
Last day for Oral Examination	Nov. 12	Feb. 18	May 10	July 1	Aug. 5
Last day to submit Thesis to Library and Final Report for degree in term	Nov. 26	Mar. 2	May 24	July 13	Aug. 17
Last day to apply for degree to be awarded next term	Nov. 29	Mar. 4	May 27	July 15	Aug. 19
Final Examinations	Nov. 22-24	Feb. 28-Mar. 2	May 23-25	July 15	Aug. 19
Term Closes	Nov. 29	Mar. 4	May 27	July 15	Aug. 19
Commencement			May 26		Aug. 19
Vacations (inclusive date)	Oct. 11 Nov. 11	Dec. 18-Jan. 2 Feb. 21	April 8-11	July 4	

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administration

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