


1989

## Graduate Bulletin, 1989-1991 (1989)

Moorhead State University

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**G** *raduate*

**B** *ulletin*

*1989-1991*

MOORHEAD  
STATE UNIVERSITY



**T**he world has grown more complex,  
the demand for educated men and women has expanded,  
the need for breadth and depth of education has grown.

—Roland Dille  
President, Moorhead State University



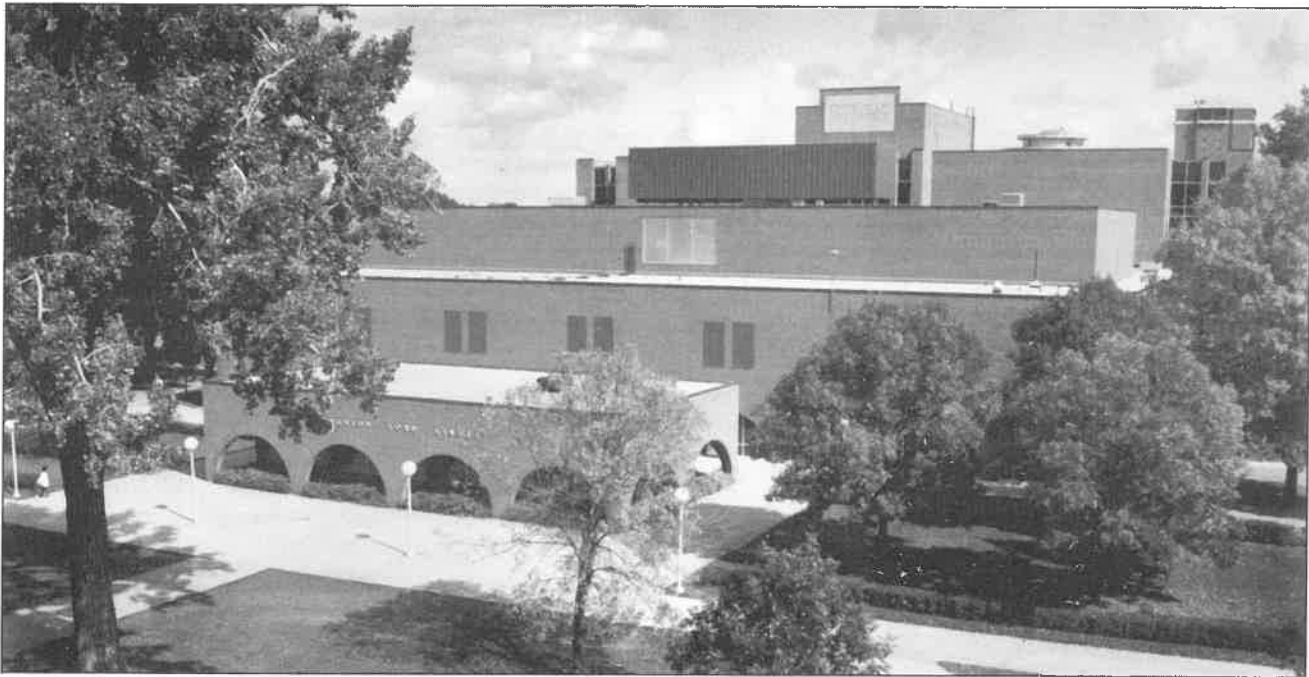
**A**n institution whose reputation rests upon its dedication to undergraduate teaching sometimes has to explain its decision to develop graduate programs. **I**n the more than thirty years since that decision was first made, there has been reason neither to regret it nor to change it. The world has grown more complex, the demand for educated men and women has expanded, the need for breadth and depth of education has grown. **M**any of our students are ready, after four years, to play responsible roles in the world of work; others are prepared for professional schools; still others are headed for graduate schools. **B**ut for some of our graduates, men and women some years out of college preparing to meet the challenges that come with promotions, a master's degree program has become a necessity. For others, the master's degree offers an exciting personal enrichment, with all sorts of implications for social and professional lives. **T**he presence of graduate programs is easily explained. The fact that we have relatively few of them may require more of an explanation. Our catalog is short because our standards are high. We have added no programs until we were convinced that they would be academically sound. We have, in short, acted according to the same purposes that for more than a century have given our undergraduates reasons to trust us, purposes that have required us to avoid the ill-considered, the barely adequate, the badly planned programs, programs too easily available at institutions more concerned with numbers than with people. **I** once wrote that a graduate bulletin is, among other things, a series of promises. These are promises we mean to keep. -

—Roland Dille  
*President*



## CONTENTS

<b>Graduate Programs Offered</b>	<b>6</b>
<b>Admission to Graduate Study</b>	<b>7</b>
<b>Registration, Tuition and Fees</b>	<b>9</b>
<b>Procedures for Master's Degree Completion</b>	<b>10</b>
<b>Graduate Programs and Courses</b>	<b>11</b>
<i>Master of Arts</i>	<b>11</b>
<i>Master of Business Administration</i>	<b>12</b>
<i>Master of Liberal Arts</i>	<b>14</b>
<i>Master of Science</i>	<b>15</b>
<i>Specialist in School Psychology</i>	<b>38</b>
<i>Educational Administration</i> <i>(with Tri-College University)</i>	<b>38</b>
<b>Departmental Graduate Courses</b>	<b>38</b>
<b>Administration</b>	<b>48</b>
<b>Graduate Faculty</b>	<b>48</b>
<b>Index</b>	<b>54</b>
<b>Human Rights/Equal Opportunity Statement</b>	<b>55</b>



## INTRODUCTION

**The University.** Moorhead State University, with an enrollment of 8,750 full- and part-time students, offers more than 90 programs and majors which lead to Baccalaureate or Master's degrees or certification as well as 20 areas of pre-professional studies. As a part of the higher education system established by the State of Minnesota, the University provides the advantages of quality education at the lower costs made possible by the support of Minnesota's citizens.

**Mission.** The mission of Moorhead State University is to provide academic programs of high quality in an educational environment that supports, in both students and faculty, intellectual and scholarly development, that develops the skills and talents of students, that gives them the capacity to live usefully and the desire to act responsibly, and that will make them learners all their lives. The dominant mission of the University is to facilitate teaching and learning that foster an openness to a range of ideas and human possibilities; to encourage and support research and artistic endeavors that identify the University as an intellectual and cultural center; and to serve as a resource for the application of knowledge that will enhance the quality of life in its service area.

**History.** Established in 1885 as a Normal School, the University began on six acres donated by State Senator Solomon G. Comstock. The first ten students graduated from its two-year curriculum in 1890. Major historical changes occurred for the University in 1921 when it became Moorhead State Teachers College, authorized to offer the four-year degrees of Bachelor of Science in Education; in 1946, when the Bachelor of Arts was

added; in 1955, when a graduate program was authorized for the Master of Science in Education; in 1957, when the official name became Moorhead State College; and in 1975, when the school became Moorhead State University.

**The Campus.** Most of the 28 major buildings on the 104-acre campus have been constructed since 1957 including nine residence halls, the library, student union, food service, Center for the Arts, the Science-Industrial Studies Center, a classroom building and the Nemzek Hall complex for men's and women's physical education, health and athletics, a biology building and the administration building. The most recent construction is an addition to the Center for the Arts, completed in 1978.

**The Community.** Moorhead, Minnesota and Fargo, North Dakota are education-minded communities with Moorhead State University and Concordia College on one side of the Red River, North Dakota State University on the other. The two cities support a symphony orchestra, community opera and community theatre and several art galleries. This University regularly offers a Performing Arts Series, monthly art exhibits and a number of dramatic and musical programs.

The character of this metropolitan community of nearly 120,000 is also determined by its rural traditions. Situated in the rich farming land of the Red River Valley, Fargo-Moorhead is the hub for wholesale and retail trade, communications, transportation, industry and medical care in the Upper Midwest.



## **G**raduate Programs Offered

### **Master of Arts (MA)**

Studio Art

### **Master of Business Administration (MBA)**

### **Master of Liberal Arts (MLA)**

### **Master of Science (MS)**

### **Professional Education**

Art Education

Business Education

Educational Theatre

Elementary Education

Music Education

Reading

Special Education

### **Other Professional Programs**

Computer Science

Counseling and Human Development

Public and Human Service Administration

School Psychology

Speech/Language Pathology and Audiology

### **Specialist in School Psychology**

Moorhead State University cooperates in programs leading to the Master of Science and Specialist in Education degrees in Educational Administration offered by the Tri-College University.

## **A**dmission to Graduate Study

Persons with a baccalaureate degree from an accredited college or university may apply for admission to a Master's Program, or as a Graduate Special Student. Undergraduate students with senior status are also allowed to take graduate courses. However, graduate credits earned as an undergraduate may not apply to baccalaureate degrees.

### **General Information**

#### **Application Deadlines**

Students must complete their admission file at least six weeks before the start of any quarter to ensure admission by the beginning of the term. Students applying during the months of June, July, and August cannot be assured of admitted status by the beginning of fall term. If financial aid is a consideration, students must be admitted into a degree program to qualify for guaranteed student loans. They must also have admitted status in order to obtain a graduate assistantship. Admissions to most programs are continuous, but students wishing admission in School Psychology or Speech/Language Pathology and Audiology, which have limited enrollments, should complete their admission files by April 1 or March 1 respectively in order to begin in the Fall Quarter class.

### **Admission of International Students**

Students who are not United States residents must follow the normal application procedures listed later in the bulletin. In addition, a completed Financial Statement listing the availability of adequate monetary support for the duration of graduate study must be attached to the application form. The current requirement is at least \$8,200 per year. Academically talented students are encouraged to apply for tuition reduction, allowing them to pay their first year's tuition at resident rather than at non-resident rates. No guarantees can be made regarding this award until all application materials have been completed and academic records have been reviewed. Evidence of competency in the English language must be provided through the submission of the official TOEFL examination with a score of 500 or more. Students wishing to enter the MBA program must complete the Graduate Management Admission Test (GMAT). Check under program descriptions for programs which require the Miller Analogies Test (MAT) or the General Aptitude portion of the Graduate Record Examination (GRE).

### **Employment Opportunities and Financial Aid**

Graduate Assistantships of two types are available for students admitted to graduate degree programs. One requires that a student qualify under the Financial Aid Office guidelines for assistance; the other is granted independent of financial qualifications. These assistantships generally require 10 to 12 hours of work each week and provide opportunity for gaining experience in the field of major interest and for working with faculty in the discipline. Persons should apply to the Office of Graduate Studies, 208 Owens Hall, (218) 236-3024, for consideration as a Graduate Assistant.

The Financial Aid Office, 108 Owens Hall, (218) 236-2251, has information and forms for the major programs of financial aid available to students: National Direct and Guaranteed Student Loans, and Work-Study.

The Career Planning and Placement Office, Comstock Memorial Union 126, (218) 236-2081, carries listings of part-time work opportunities available in the community as well as complete services for graduating job-seekers. The Job Shop, located in Comstock Memorial Union, also carries listings of part-time employment opportunities.

Veterans are encouraged to seek the assistance of the Veterans Affairs Officer, Library 201 A, (218) 236-2300, for counseling, student employment, and VA 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 also be assigned as residence hall assistants. Inquiries relating to housing should be directed to the Housing Office, Ballard Hall, (218) 236-2118.



## **Admission Status**

### **Senior, Graduate Special, Master's**

#### **Senior Registration**

A student enrolled at Moorhead State University who, by virtue of the number of completed credit hours, has senior standing may be permitted to enroll in courses designated for graduate credit. The student must satisfy prerequisites, and approval must be obtained on the appropriate form from the instructor, the appropriate dean and the Dean of Graduate Studies in advance of registration. Graduate credits earned may not be counted toward the required number of hours needed to complete the baccalaureate degree. Graduate credits earned prior to completion of the baccalaureate degree which might later be used to fulfill minimum requirements in a degree program at Moorhead State University cannot exceed 12 hours.

#### **Admission as a Graduate Special Student**

Students desiring to take courses for graduate credit but not seeking admission to a Master's program may do so by filling out an Application for Admission and checking Graduate Special. Students may attend indefinitely in this status, but should admission to a program be desired at a later date, the student must submit a completed new application for that program and meet the same admission criteria in effect for other students. Credits earned in Graduate Special status which might later be used to fulfill minimum requirements in a degree program cannot exceed 12 hours for the Master's degree.

#### **Admission to a Master's Degree Program**

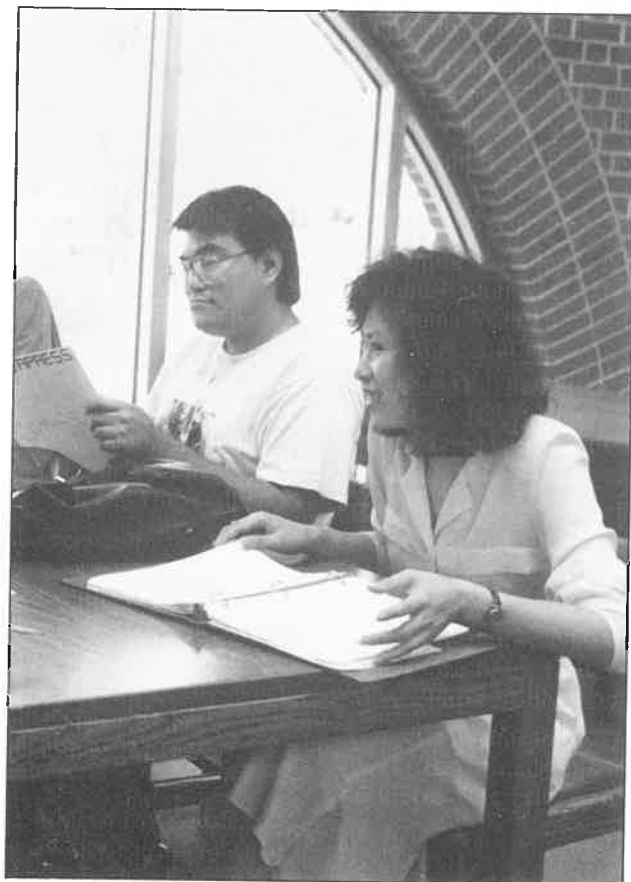
Moorhead State University offers the following degrees: Master of Arts in Studio Art, Master of Business Administration, Master of Liberal Arts, and Master of Science, the latter in Art Education, Business Education, Computer Science, Counseling and Human Development, Elementary Education, Music Education, Public and Human Service Administration, Reading, School Psychology, Special Education, Speech/Language Pathology and Audiology, and Educational Theatre. In addition, students may complete the Specialist in School Psychology degree for certification as a School Psychologist.

Admission to any of these programs requires a completed Application for Admission, submission of college transcripts to be sent from the undergraduate institution directly to the Graduate Studies Office, a non-refundable \$10 fee for first-time applicants payable to Moorhead State University, test scores if required by the program applied for, and other documents as required by specific programs. Such individual requirements are defined under the specific program descriptions. International students should note further requirements of financial statement and TOEFL score of at least 500. All admission materials are to be sent to the Graduate Studies Office where they are held until the file is complete. Then the files are forwarded

to the appropriate department or program for recommendation on admission. The dean of the appropriate area then reviews the admission file. Finally, the graduate dean reviews the materials and admits or denies admission to a graduate program. Departmental or program approval is required for admission to a graduate program and will in no case be waived, but approval by the major department or program does not guarantee admission to graduate study.

#### **Admission to Specialist in School Psychology Program**

Students who have completed, or are nearing completion of the Master's degree in School Psychology at Moorhead State University will be considered for admission to the Specialist degree program upon submission of a letter of interest and intent to the Director of the School Psychology Training Program and a completed application for admission form to the Graduate Office. Under this arrangement, all requirements for the M.S. degree must be completed before 12 quarter hours of credit toward the Specialist degree are earned. Applicants from other universities must submit evidence of satisfactory completion of a substantially equivalent Master's degree. In addition, all of the requirements for admission to the Master's degree program, as described previously, must be met.



### **Admission Categories for Master's Full Standing, with Provisions, with Deficiencies, or Denial.**

**Full Standing.** This admission requires that the grade point average on undergraduate work be at least 2.75 on a 4.00 scale or that the last 45 credits of graded coursework be 3.25 on a 4.00 scale. In some programs, a 3.00 undergraduate GPA is required. Specific requirements of this sort appear under the individual program description. The MBA requires that the student meet a formula: 200 times the GPA plus the score on the Graduate Management Admission Test must equal at least 950 points.

**Admission with Provisions.** This admission occurs when students show great potential for success in a graduate program but their record of past academic and examination performance is below the standard of the graduate school. Students admitted with provisions are informed at the time of acceptance how to proceed in course registration and advising in order to remain in a degree program. The usual requirement is that the first 15 credits of graduate course work after admission to a program must be planned in consultation with the advisor and completed with no grade below an A or a B.

**Admission with Deficiencies.** This admission notes courses which must be completed before graduate work in certain areas may be taken. Students admitted with deficiencies must complete the course work designated in their admission letter as well as their program of graduate study in order to earn the Master's degree.

**Denial.** This determination means that the student is not admitted to a degree program and may not earn a Master's degree in it from Moorhead State University even if he or she has successfully completed advanced courses in the area.

### **General Course Requirements**

Education: A minimum of 45 graduate credits is required for Plan A, which in Master of Science degree programs requires a six-credit thesis, or 48 graduate credits for Plan B, which in Master of Science degree programs requires a three-credit project. In either plan at least 23 credits will be earned at the 500-level. All programs having education as the professional component will include at least nine credits to be earned in course work, other than research or statistics, offered by the Department of Education and approved by a Graduate Faculty representative of that department.

Unless otherwise specified in the major description, the program may be completed under either of two plans:

#### **Plan A**

**Group I** - Research Component (9-12 credits); Thesis (6 credits); and course work in research methods required, statistics recommended.

**Group II** - Major (21 credits minimum)

**Group III** - Electives, to be chosen from the major and/or related areas (3-6 credits)

#### **Plan B**

**Group I** - Research Component (6-9 credits); Project (3 credits), course work in research methods required.

**Group II** - Major (24 credits minimum)

**Group III** - Electives, to be chosen from the major and/or related areas (6-9 credits)

The Master of Business Administration requires 48 credits of 500-level course work, including a final oral examination.

The Master of Liberal Arts requires 45 credits, including two integrating papers, the latter of which will be the subject of the final oral discourse.

The M.S. in Public and Human Service Administration requires 54 credits with a research component.

Specific requirements for particular majors are given in the Graduate Programs and Courses section. The student, after being admitted to graduate study, will, in consultation with a 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 approved after admission to study for the Master's degree. Subject to the approval of the department or program concerned, a maximum of 16 credits may be accepted in transfer from other accredited institutions. Courses approved for registration through the Tri-College University are to be transferred at the discretion of individual programs. Subject to their inclusion in a program previously approved by the departments or programs concerned and the Dean of Graduate Studies, 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. Not more than nine hours in workshops (499g) or in special in-service (489g) courses may be counted toward the minimum requirements for the degree.

#### **Credit for Non-Academic Experience**

It is the policy of Moorhead State University that graduate credit will not be granted for work and other non-academic experiences.

## **Continuation in Good Standing in Graduate Programs**

Students are required to maintain a 3.0 grade point average on a 4.0 scale to be continued in a graduate program. Students whose grade point average falls below 3.0 will be placed on probationary status. An official letter will be sent by the Graduate Studies Office to notify such students that they are on probation. The record will be reviewed by the major department or program and by the Dean of Graduate Studies after the completion of 12-15 additional hours of credit to determine continuing status. In no case will continuation in the program be permitted if the grade point average remains less than 3.0 at the time of the review. Admission to a graduate study program does not guarantee that students will successfully complete degrees.

### **Appeals**

a. **Course Grade Appeal.** This appeal is made first to the course instructor. Then, if necessary, to the appropriate department chair, then, if necessary, to the appropriate academic dean, and finally, if necessary, to the Vice President for Academic Affairs. Graduate faculty who serve to admit or terminate graduate students should not serve on a departmental committee which hears course grade appeals.

b. **Appeal of University Regulations.** Retroactive withdrawal from courses or other appeals of academic university regulations should be made to the Academic Appeals Committee, and then, if contested, to the Vice President for Academic Affairs.

c. **Programmatic Appeals.** Admission, termination, program requirements, and other such matters may be appealed at the appropriate administrative level. For example, if the department recommends admission, but the Graduate Dean denies it, the initial appeal is made to the Graduate Dean not the department or program chair. The order of appeal is from the program coordinator or chair, to the Graduate Dean, to the Vice President for Academic Affairs.

### **Time Limitation**

All requirements for the degree must be completed within seven years after taking the first graduate course that will be included in the program of study. In certain cases, the Dean of Graduate Studies may consider students' petitions for an extension of time.

### **Certification/Licensure**

Programs of study at Moorhead State University were designed to help graduates meet certification or licensure requirements in Minnesota and North Dakota, but actual certification or licensure is the function of the states, not of any college or university. Earning an academic degree does not lead automatically to state certification or licensure. Students should consult with a faculty member for advice about current state requirements for licensure or certification and design a program of study accordingly.

## **Registration, Tuition and Fees**

### **Registration**

Graduate students register during the regular university-wide registration period at the beginning of each quarter or summer session. For evening and off-campus courses only, students may register at the first class meeting. During the academic year, eight credits per quarter is defined as "full time" but the normal course load is 12 to 15. The normal load in each summer session is six to eight quarter credits. Permission of the appropriate dean and the Dean of Graduate Studies is required for registration in excess of 15 credits in any academic term.

### **Graduate Courses**

Courses offered at the 500-level are open to graduate students only or to undergraduate students with senior standing. Courses at the 300 or 400 level with a (g) option, may be counted toward a graduate degree. Graduate students are expected to perform on a qualitatively higher level than the undergraduates in these courses. Normally additional requirements are made in these courses for 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 without penalty from the course. Only those credits which were completed with a grade of A, B, C, or S may be applied toward a Master's degree. Graduate programs may designate core courses which must be completed with a grade of A or B in order to count toward the degree. Students may repeat a course with a grade of C, D, or F one time.

The mark of I (Incomplete) is given in cases where it is beyond the student's control to complete the last course requirements and when arrangements have been made with the instructor before the end of the quarter using the "Removal of Incomplete Form" from the Registrar's Office. It is the responsibility of the student to follow the guidelines agreed upon for removing an Incomplete within one quarter, the time granted by University policy.

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 of A earns four grade points per credit hour; B, three grade points; C, two grade points; D, one grade point and F, zero grade points. The grade on the final project or thesis is an X until the final oral examination has been successfully completed. Then the grade is changed to S. A student who fails the final oral examination cannot receive a passing grade on the project or thesis.



### **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 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.

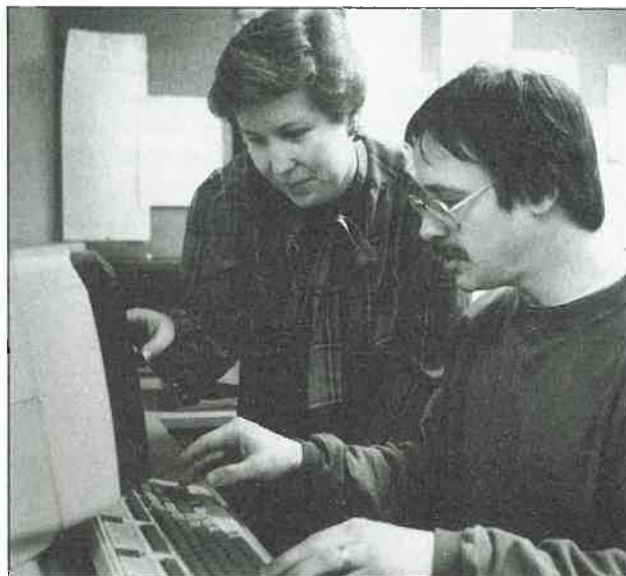
### **Tuition and Fees**

Tuition and fees are set by the Minnesota State University Board and are subject to change. Fall 1988 tuition and fee rates were: Minnesota resident or North or South Dakota resident with tuition reciprocity: \$42.95 per credit hour; Wisconsin resident with tuition reciprocity: \$50.00; Off-campus graduate: \$45.00; Non-resident: \$62.00 per credit hour.

Residents of Minnesota who are 62 years or older may register for courses in which space is available by paying an administration fee of \$6 per credit hour. Application for such permission should be made with the Admissions and Records Office.

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

Late registration and change-of-registration fees are chargeable. Graduate students enrolling for undergraduate credits pay tuition and fees at the undergraduate rate.



## **P**rocedures for the Completion of a Master's Degree

### **Research Components**

**Thesis Research**, Master of Science, Master of Arts, or Specialist Degrees: **(Plan A)**

A part of the program of every Master of Science, Master of Arts, or Specialist'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 six hours of registration in Thesis 599 but not more than six hours of 599 may be counted in satisfying the minimum requirements for an advanced degree under Plan A. 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.

If research is to involve human subjects the research plan will be reviewed by an approved university procedure to assure the protection and rights of those subjects and the procedure established for obtaining informed consent. No research of this type will be initiated until it has been approved by an examining committee, the Graduate Dean, and the Institutional Research Board.

### **Project (Plan B)**

Students enrolled in the Master of Science or Master of Arts may elect to complete a three-credit project which will integrate the studies included in the individual's program. The project must be approved by the major advisor and department. If human subjects are to be involved in research, the plan and assurances must be approved by the Graduate Dean and the Institutional Research Board before the research may be initiated.

**Master of Business Administration:** A final oral examination based on questions agreed upon by the examining committee and the student shall constitute the integrating experience for the MBA degree. There is no thesis or project required.

**Master of Liberal Arts:** Students completing the MLA will complete MLA 510, an integrating paper which will serve as the basis for a final oral discourse.

### **Submission of Proposed Graduate Course Plan: Form 1**

Students are assigned a graduate adviser upon admission to a degree program. It is their responsibility to meet with the advisor to plan the appropriate course of study in order to meet degree requirements. The plan should be recorded on Form I and submitted to the Graduate Studies Office for approval with the signatures of adviser, department chairperson, and divisional dean, for the student's official file.

### **Examining Committee and Human Subjects Review: Form 2**

When students have determined their topic for thesis research, project, or other work to complete degree requirements, they should request its approval by the department, dean, and graduate office. At this time the final examining committee is chosen by students in consultation with their advisor. One member must be from outside the major department or program of study. Finally, if human subjects are involved in the research, the appropriate form must be submitted to the Institutional Research Board for approval.

### **Comprehensive Examination**

At least three weeks before the oral examination, the candidate in Master of Science degree programs must demonstrate competence in the major field in a comprehensive examination. Consult with the major department or program to determine the dates when the examination is offered. The major department or program will determine the nature of the examination which must be satisfactorily completed and reported to the Graduate Studies Office before the oral examination can be held. If the program includes a separate education component, the satisfaction of that component will be determined and reported by the Department of Education. A student who fails to pass the comprehensive examination may appeal through the appropriate department to repeat it during a subsequent term. A second failure will result in termination of the degree program.

### **Request for Announcement of Oral Examination: Form 3**

When students are prepared to take the oral examination, they set the time, place, and date in consultation with their Examining Committee. The request (Form 3) must be submitted at least two weeks in advance of the time of the examination, signed by each of the four members of the committee. Attached to this form should be an Abstract of the final research or other work prepared for the final oral examination. Consult with the Graduate Studies Office to learn of the specific deadline dates in each academic term for requesting and scheduling of the oral examination.

### **Final Form for Thesis or Project Paper**

Standards for the preparation of a research paper must conform to the manual of style required by the discipline in which the degree is taken. Students must work closely with their advisors and committees in the preparation of the research paper.

The research or project paper must be of letter quality on sixteen or twenty pound rag-content bond paper; dot matrix printing is not appropriate. Either pica or elite type may be used. Offset and carbon methods of reproduction may be accepted. Suitable reproduction processes may be used for charts, graphs, and so on. 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. Neither the thesis nor the project paper should be bound in any permanent form prior to the oral examination.

### **Oral Examination**

The final oral shall take place at least two weeks prior to the end of the quarter in which students intend to complete their degrees. Consult with the Graduate Studies Office to learn of the specific deadline dates for the oral examination.

### **Final Submission of Thesis or Project Paper**

After the oral examination has been successfully completed, any correction, editing, or other re-writing of thesis or project papers needs to be completed so that students' advisers can sign off on the Form 4 (Recommendation for Graduate Degree), at least two days prior to Commencement. The student must submit three copies of the thesis or project paper to the University Library after all corrections and additions required by the examining committee have been completed. The thesis must be accompanied by Form 4 signed by the advisor verifying that the final copy has been approved. The librarian will, upon receipt of the binding fee, currently \$7.50 per copy, verify the thesis deposit by signing Form 4, and will negotiate an agreement with a bindery.

Students are responsible for submitting the Form 4, with required signatures, to the Graduate Studies Office not later than two days prior to the date of Commencement. In programs which do not require a thesis or project paper, the Form 4 may be signed and delivered to the Graduate Dean following the successful completion of the oral examination.

### **Commencement**

Moorhead State University has two Commencement ceremonies each year, at the end of May and in mid-August. Academic garb should be ordered from the Bookstore not less than eight weeks prior to Commencement. Students who plan on attending the Commencement ceremonies will need to submit their hood to the Graduate Studies Office at least four days prior to Commencement.

## **Graduate Programs and Courses**

### **Master of Arts in Art—M.A.**

The Master of Arts degree in studio art is intended to further artistic growth and development within a strong historical and philosophical framework. Students graduating from the program are required to produce and exhibit a body of work related to a central theme.

Student in Plan A will write a thesis and those in Plan B will complete a paper related to their studio work. A synopsis of this research in the form of an artist's "statement" is required for the exhibition. Those in Plan B will be expected to produce an exhibition reflecting the greater concentration on studio work.



### **General Program Requirements**

Admission applications are to be completed prior to the intended beginning of graduate studies. The application is comprised of a portfolio of art work submitted to the Art Department Graduate Faculty, an evaluation interview by three members of the Art Department Graduate Faculty, and submission of scores on the General Aptitude portion of the Graduate Record Examination (GRE).

The program requires a minimum of 48 credits. From this a minimum of 24 credits must be studio courses, 12 credits Art History, 8-4 credits approved-related courses, 6-4 credits thesis or project.

The candidate wishing to strengthen the theoretical aspect of the studies should follow Plan A. Those who desire to emphasize the studio aspect are advised to follow Plan B.

#### **Plan A: 48 Credits**

Art History (12 credits), Art Studio Concentration (22 credits), Approved Related Courses (8 credits, Thesis 599 (4-credit paper + 2-credit exhibit = 6 credits).

#### **Plan B: 48 Credits**

Art History (12 credits), Art Studio Concentration (25-29 credits), Approved Related Course (4-8 credits), Project (1-credit paper + 2-credit exhibit = 3 credits).

For description of courses, see Master of Science in Art Education.

### **Master of Business Administration (MBA)**

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 (GMAT), letters of recommendation, and a personal statement of qualifications and career objectives. Any deficiency following admission in basic finance, marketing, management (one course each), microeconomics, macroeconomics, statistics, and financial accounting 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. If a student accumulates two or more C grades, or one or more D or F grades the MBA Committee will, during the quarter following accumulation of such grades, review the student's standing in the program and may recommend a change of status or termination from the program. Not more than 12 credits earned at this or other accredited institutions prior to admission may be counted toward the minimum requirements for the degree. A maximum of 16 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:



**Required Courses: (40 credits)**

MBA 530 Managerial Accounting (4)  
MBA 502 Managerial Microeconomic Analysis (4)  
MBA 542 Financial Management (4)  
MBA 501 Statistics for Management (4)  
MBA 500 Professional Communication (4)  
MBA 550 Business and Society (4)  
MBA 555 Quantitative Analysis for Management (4)  
MBA 560 Organizational Policy (4)  
MBA 551 Organizational Theory and Behavior (4)  
MBA 510 Marketing Administration (4)

**Elective Courses: (8 credits)**

MBA 504 Macroeconomic Policy  
MBA 512 Marketing: A Non-Profit Environment  
MBA 514 Consumer Information Processing  
MBA 525 Business Tax Planning

It is essential that the student, upon admission, consult with the assigned adviser to plan initial registration. Prior to the close of the quarter previous to that in which the program is to be completed the student will petition for the formation of an Examining Committee, a major adviser as chairperson plus three additional members of the Graduate Faculty (one outside of the MBA program). The Final Examination shall be oral and conducted by the Examining Committee. A written examination may be used if deemed advisable by the Examining Committee.

**MBA Courses**

**MBA 500 Professional Communication (4) (F)**

Examines business communication in both in-house and public situations. Includes formal full-length report of individual topic development by student.

**MBA 501 Statistics for Business Management II (4) (F)**

Regression analysis, model building, computer software packages, analysis of variances, experimental design, analysis of count data, student project. Prerequisites: Math 274-275 or Math 574.

**MBA 502 Managerial Microeconomic Analysis (4) (W)**

Application of microeconomic theory to managerial decision making, particularly in regard to the various kinds of market structures within which a manager may operate. Prerequisites: Econ 202, MBA 501.

**MBA 504 Macroeconomic Policy (4) (S every other year)**

A rigorous examination of fiscal and monetary policy, macroeconomic models and forecasting. Prerequisite: Econ 204.

**MBA 510 Marketing Administration (4) (S)**

Analysis of problems met by management in meeting consumer needs. Emphasizes marketing decision making under conditions of uncertainty. Prerequisites: MBA 501, MBA 502, Mktg 310.

**MBA 512 Strategic Marketing: A NonProfit Environment (4) (F, every other year)**

Strategic market planning in a not-for-profit environment. Pre-requisite: MKTG 310.

**MBA 514 Consumer Information Processing (4) (S, every other year)**

The application of behavioral science concepts to the study of consumer information processing and decision making. Pre-requisite: MKTG 310.

**MBA 525 Business Tax Planning (4) (S, every other year)**

An examination of selected federal tax rules and their impact on recurring management decisions including: Selection of legal form of organization, property transactions, compensation, international operations, and tax planning. Prerequisites: Acct 229- 230, or equivalent.

**MBA 529 Corporate Financial Reporting (4) (F)**

Study of financial reporting practices and principles, including professional pronouncements. Analysis and interpretation of corporate financial reports.

Prerequisites: Acct 229-230. May not be taken for credit by students who have taken Acct 480.

**MBA 530 Managerial Accounting (4) (W)**

Use and analysis of accounting data for management planning, control and decision making. Prerequisites: MBA 529, MBA 501.

**MBA 542 Advanced Financial Management (4) (S)**

Application of financial theory to the evaluation of a firm's investments, financing, and dividend decisions in keeping with the objectives of maximizing shareholder wealth. Prerequisites: Finc 340, MBA 529, MBA 530.

**MBA 550 Business and Society (4) (W)**

The free enterprise system in an economic, philosophic and historic perspective, including socialists' criticisms; antitrust, regulation, and public enterprise; corporations and social responsibility. Prerequisites: Econ 202-204.

**MBA 551 Organizational Theory and Behavior (4) (F)**

In-depth consideration of the concepts and research findings in organizational theories, processes, and behavior. Prerequisite: Mgmt 360.

**MBA 555 Quantitative Analysis for Management (4) (W)**

Introduction to management science models and techniques which stress logic, application, and interpretation rather than the mathematical foundations. Prerequisite: MBA 501.

**MBA 560 Organizational Policy (4) (S)**

Capstone course drawing upon knowledge of management, marketing, finance, accounting, and economics. Prerequisite: Permission of instructor.

## **Master of Liberal Arts (MLA)**

The Master of Liberal Arts program is designed for the post-baccalaureate student who is seeking an advanced interdisciplinary educational experience that emphasizes historical and cultural breadth rather than specialization in one field. The program establishes an environment which encourages the integration of learning and life experiences and provides college graduates an opportunity to develop further the competencies essential for participation in a world of unprecedented social and technological change. Students in the program may design programs that are non-professional in intent, that lead to doctoral programs in the liberal arts, or that enhance professional opportunities and advancements.

Applicants must hold a bachelor's degree from an accredited institution. No specific major is required. A grade point average of 2.75 for the baccalaureate, or 3.25 for the most recent 45 credits of graded course work, is required. Applicants presenting a lower average may be admitted with provisions.

### **General Program Requirements**

The program requires a minimum of 45 credits, at least 30 of which must be completed in specifically designed Graduate Liberal Studies (MLA) courses, including MLA 505 (1-2 credits, and 510 (2 credits). Up to 15 credits in other graduate courses may be included in the program. Or, a maximum of 16 graduate credits may be accepted in transfer from other accredited institutions and may have been completed previous to admission into the program; however, any courses completed at this or at other institutions more than five years previous to admission will be individually reviewed.

A grade point average of 3.0, including an average of at least 3.0 in MLA courses and a grade of satisfactory in MLA 505, and 510, is required for continuation in and completion of an approved program.

### **Liberal Arts**

Liberal Arts courses are intended for persons enrolled in the Master of Liberal Arts program. Others may register with permission of the instructor.

### **The Integrating Courses**

-**MLA 505** (1-2 credits) is an essay paper which will be completed approximately halfway through the program. The purpose is to expand upon the subject matter in a paper written for a selected MLA course; to develop more depth in one subject than might ordinarily be expected within the context of one course or discipline; and/or to reorganize, hone, polish, re-write, for a finished product. Credits for the paper will be based upon the amount of additional work required, in consultation with the faculty advisor.

-**MLA 510** (2 credits) is to be taken upon completion of final courses and/or independent projects. The purpose is to allow choice of subject, approach, or creative endeavor for a particular professional or avocational interest that represents a broad perspective usually not encompassed in any particular course in the program. The expectation is that the students integrate materials from several disciplines or courses, bring the "pieces" together in writing.

### **Final Discourse**

The Final Discourse shall be conducted by a committee of three Graduate Faculty of the M.L.A. program, including the adviser as chairperson. Another member of the Graduate Faculty, not a member of the M.L.A. faculty, will be appointed in consultation with the student's adviser. The discussion will be directed mainly to the final essay, but may also deal with earlier papers and other components of the program.

### **MLA 505 (1-2 credits) and 510 (2 credits) Integration Courses**

#### **MLA 513 The Human Spirit in Art (3-4)**

This course will study the art of selected great painters and sculptors of the Western and Eastern worlds in order to probe the depth and richness of the human spirit in its many manifestations. Literary, philosophical and historical material which helps to reveal the specific outlook of each artist will supplement the study of his visual creations.

#### **MLA 515 Ethics: The Moral Dimensions of Life (3-4)**

A study of major moral concepts and theories and application of ethics to contemporary moral questions such as abortion, racism, sexism, sexual morality, privacy, punishment and global issues.

#### **MLA 517 Technology, Bureaucracy and Identity in Modern America (3-4)**

This course is designed to explore the connections among technology as a historical force, bureaucracy as an institution, and the concept of self or personal consciousness in modern America. Texts chosen for the course represent various disciplinary and interdisciplinary perspectives on the subject from philosophy, sociology, history, political science, literature and art.

#### **MLA 521 Existentialism and Literature (3-4)**

An examination of major themes in existentialist philosophy as they occur in literary works. Emphasis will be placed on approaching symbol, metaphor, dialogue, character, plot, etc., as various modes of communicating existentialist thought.

#### **MLA 525 The Marxist World-View (3-4)**

An examination of the Marxist perspective with an emphasis on Marxism as an interdisciplinary method of critical analysis. After studying the historical roots, the nature, and the presuppositions of the Marxist world-view, this critical outlook will be applied to several

areas of culture, including philosophy, religion, education, literature, and popular culture.

**MLA 527 Imagination, Reform and the Urban Transformation of America (3-4)**

This course will investigate the imaginative response to cultural change with its focus on the period 1880-1920 in the United States. Background in the historical forces of change and the philosophical value system of the 19th century will provide the context of the course. The central focus will be the themes inherent in the imaginative response to rapid change to an urban environment as seen in literature, art, architecture, and the activities of the social reform group.

**MLA 529 The Mythic Frontier in American Culture (3-4)**

An examination through art, literature and legend of the impact which imaginative conceptions of the frontier have had upon American culture in the 19th and 20th centuries.

**MLA 531 Dimensions of Drama (3-4)**

A course designed for the graduate student interested in reading or seeing drama. A variety of Shakespearean and modern plays (for example, *Merchant of Venice*, *Twelfth Night*, *Measure for Measure*, *Antony and Cleopatra*, *King Lear*; Brecht's *Galileo*, *The Caucasian Chalk Circle*; Chekov's *The Three Sisters*; Ibsen's *Hedda Gabler*—among others) will be examined in a variety of ways. We will discuss each play as creating its own world, each play in relation to a genre (comedy, history, tragedy) and above all, find the life of each play as revealed in performance. Students will see videotapes of performances, participate in directing exercises, and develop their own analyses of the plays as theatrical scripts.

**MLA 533 Genetics and Society (3-4)**

An exploration of the genetic aspects of some contemporary social issues. Topics include genetic counseling, genetic engineering, evolution, and the influence of genetics on disease, behavior, and social structure.

**MLA 535 Gender Role and Sexuality (3-4)**

Emphasis will be placed on the process of sexual differentiation, the development of gender identity, the learning of gender roles, and the diversity of sexual behavior. The course will include the major perspectives on sexuality (biological, psychological and sociological) and conclude with reading and discussions about the future of human sexuality, lifestyles, morals and values in our society.

**MLA 537 The Musical Experience: Reflections in Sound (3-4)**

Music representing a broad range of historical and cultural styles, genres, and repertoires will be examined and discussed. Focus will be on developing listening techniques and nurturing an informed awareness of the principles of sonic design and expression.

**MLA 541 Global Social Structure, Conflict and Change (3-4)**

A survey of global social structure, conflict and change. World social, cultural, economic, political, and religious developments will be examined to understand the nature and roots of some current human crises, such as over-population, hunger, pollution, environmental imbalance, inflation, recession, inequality, refugees, resource depletion, terrorism and war. Examined also will be global and small-scale modes of social living, as alternatives to the current human condition, and the possible, probable and humane means to achieve those alternatives.

**MLA 545 The Classical Roots of Modern Culture (3-4)**

A multidisciplinary study of the classical ideal as it appears in ancient Greece and influences other periods of Western Civilization, especially the Twentieth Century, and analysis of its continuing dialogue with romanticism. A connecting theme present in the materials studied will be the nature of the hero.

**MLA 547 The Ecological Perspective (3-4)**

An examination of some major environmental problems from an ecosystem perspective. Attitudes and activities that contribute to the problems as well as the political, legal, economic, and social implications will be considered.

**MLA 560 Special Topics (1-4)**

Seminars on special topics, including *Autobiographical Writing*, *Russian Humanities*, and *Five Centuries of Latin America*.

**MLA 570 Topics: Study Abroad (2-4)**

**MLA 490(g) Independent Study/Project (1-6)**

A tutorial in specific subject matter may be arranged.

**Master of Science (MS)**

**Master of Science—Art Education**

Admission applications, to be completed prior to the intended beginning of graduate studies, require a portfolio of art work to the Art Department graduate faculty, an evaluation interview of three members of the Art Department Graduate Faculty, and submission of scores on the General Aptitude portion of the Graduate Record Examination (GRE).

The candidate working in history or theory should follow Plan A. The candidate with emphasis in Studio is advised to follow Plan B. Within research components the candidate must take Ed. 503, Methods of Research and either Art 599, Thesis (six credits Plan A) or Art 597, Individual Study (three credits Plan B). In connection with Art 597 the theoretical background and the rationale of the project must be developed in the form of a short essay. The synopsis of the essay must be displayed in the exhibit as an explanatory legend of the art work which comprises the project.

Prior to the oral examination, a written comprehensive examination must be passed in education and in art. The graduate exhibition, including the project, must be open to review and evaluation as part of the oral examination.

**Plan A:** 45 Credits

Ed. 503 (3 cr.), Education (9 cr.), Art History (12 cr.), Art St. Conc. (12 cr.), Art Electives (3 cr.), Thesis 599 (6 cr.)

**Plan B:** 48 Credits

Ed. 503 (3 cr.), Education (9 cr.), Art History (12 cr.), Art St. Conc. (12 cr.), Art Electives (9 cr.), Art Project (3 cr.)

**Art Courses**

**Art 409(g) Art of Primitive Peoples (4)**

The art of peoples living in village and tribal units apart from the "Historic" civilizations: Africa, Oceania, Pre-Columbian America. Prerequisite: Junior standing or consent of instructor.

**Art 410(g) Ancient Classic Art (4)**

A study of the principal monuments of Ancient Greece, Etruria, and Rome with emphasis on forms that have influenced Western art. Prerequisite: Art 233 or consent of instructor.

**Art 411-412(g) Medieval Art I-II (4 each)**

Architecture, sculpture, painting, and related arts from the decline of the Roman Empire to the Renaissance. 411: Early Christian period to the end of Ottonian rule. 412: Romanesque and Gothic architecture, sculpture and painting. Prerequisite: Art 233-234 or consent of instructor.

**Art 420-421(g) Renaissance Art I-II (4 each)**

European painting, architecture and sculpture in the period 1300-1600. 420: Italian Renaissance and Mannerism. The evolution and development of Renaissance ideals and forms. 421: Northern Renaissance. Artistic developments in France, Germany, England, and the Netherlands in the fifteenth and sixteenth centuries. Prerequisite: Art 233-234 or consent of instructor.

**Art 422(g) Baroque Art (4)**

The artistic achievements of the seventeenth and eighteenth centuries in Europe Prerequisite: Art 233, 234, 235 or consent of instructor.

**Art 425(g) Art History Abroad (4-6)**

This course, conducted abroad, exposes students to many periods of art and allows for concentrated work in special-interest fields. Prerequisite: Art 233, 234, 235 or consent of instructor.

**Art 430-431-432(g) Modern Art I-II-III (4 each)**

Painting, sculpture and related arts from the nineteenth century to the present. 430: Nineteenth century Neoclassicism, Romanticism, Impressionism, Post Impressionism. 431: Art from 1900 to 1920. 432: Art from 1920 to the present. Prerequisite: Junior standing or consent of instructor.

**Art 433(g) Modern Architecture (4)**

Architecture of the late nineteenth and twentieth centuries. The materials, techniques, and forms of the architectural conception. Prerequisite: Junior standing or consent of instructor.

**Art 434-435(g) Art in the United States I-II (4 each)**

A survey of architecture, painting, and sculpture in America from the Colonial period to the present. 434: Colonial beginnings to the end of the Civil War. 435: Last decades of the nineteenth century to the present. Prerequisite: Art 233- 234-235 or consent of instructor.

**Art 437(g) History of Fine Prints (4)**

A survey of the art of the relief, intaglio, and surface print from the fifteenth century to the present. Prerequisite: Art 234, 235 or consent of instructor.

**Art 438(g) Oriental Art (4)**

A study of the principal art forms of India, China, and Japan with emphasis on their cultural and philosophical context. Prerequisite: Sophomore standing.

**Art 439(g) Scandinavian Art (4)**

A survey of Scandinavian Art in Norway, Sweden, Finland, and Denmark from the Viking period to the present.

**Art 550 Studies in Drawing (3-18)**

This course is designed for students at the graduate level who would like to pursue the development of their visual ideas in drawing as research for their work in other media or as an end in itself. Projects are developed individually by the student and his/her instructor. Prerequisite: Consent of Art Studio faculty on presentation of a portfolio.

**Art 455(g) Practicum in Art Ed. K-12 (2) (Fws)**

A practical on field experience in teaching non-traditional art experiences. Prerequisite: Art majors working toward the K-12 grade licensure, or consent of instructor.

**Art 532 Studies in Art History (3-18)**

Individual directed study in particular problems in the history of art. Prerequisite: Graduate standing. (Offered on request.)

**Art 540 Current Practices in Art Education (3)**

Development of a philosophical point of view in relation to art education in contemporary society. Prerequisite: Graduate standing in Art Education.

**Art 542 Studies in Art Education (3) (on demand)**

Individual directed study in selected phase of art education agreed upon by the instructor and student. Prerequisite: Graduate standing in art education.

**Art 552 Studies in Painting (3-18)**

Individual directed studies in particular problems in painting. Painting may involve any media. Prerequisite: Consent of studio faculty member on presentation of a portfolio.

**Art 554 Studies in Sculpture (3-18)**

Individual study in sculpture with emphasis on the elaboration of personal expression of form into cohesive body of sculpture. Prerequisite: Consent of art studio faculty on presentation of a portfolio.

**Art 560 Studies in Ceramics (3-18)**

Individual studio concentration in ceramics in areas of interest chosen by the student with advice of instructor. Prerequisite: Consent of art studio faculty on presentation of a portfolio.

**Art 574 Studies in Printmaking (3-18)**

Advanced individual studies in printmaking. Specialization in various processes. Prerequisite: Consent of art studio faculty on presentation of a portfolio.

**Art 578 Studies in Pictorial Illustration (3-18)**

Individual studio concentration in pictorial illustration with advanced exploration into concept development and refined technique, with the advice of the instructor. Prerequisite: Consent of Art Studio faculty on presentation of a portfolio.

**Art 580 Seminar in Art Education (3) (on demand)**

The identification of problems in art education at various curriculum levels; examination of related research with possible implications for practice. Recommended for concurrent registration with thesis in Art 599.

**Art 581 Graduate Seminar in Art (3)**

Detailed investigation of contemporary and traditional artistic theories and creative practices in the visual arts. Within an art historical context the directed writing of a starred paper related to a graduate project.

**Art 584 Studies in Graphic Design (3-18) (on demand)**

Advanced studies in design related to consumer, environmental, corporate, or institutional needs. Specific emphasis placed on visual communications. Prerequisite: Consent of instructor on the basis of portfolio and graduate standing.

**Art 597 Individual Study in Art (1-3)**

Independent research for advanced graduate students in art theory and creative practice. Repeated to a maximum of six credits. Prerequisite: Consent of instructor and advisor.

**Art 599 Thesis (1-6)**

Registration only after consultation with major advisor.

**Master of Science—Business Education**

NOTE: The M.S. in Business Education has been suspended as of Fall Quarter 1989. The degree requirements are listed in order for those persons currently enrolled in the program to have the necessary guidelines in order to complete the M.S. degree.

Scores on the MAT or the General Aptitude portion of the Graduate Record Examination (GRE) are required with an application for admission. The program may include courses from the Department of Business Education and also from the Department of Accounting and the Department of Business Administration. Students should consult with their adviser to plan appropriate course of study.

**Business Education Courses****BEd 315(g) Consumer Education (4) (W)**

Selection of goods and services; aid available from government and private agencies; family financial planning.

**BEd 320(g) Records Management (4) (F)**

The application of systematic analysis and scientific control of business records from their creation through processing, maintenance, protection and final disposition.

**BEd 330(g) Office Management (4) (S)**

Organization of offices, layout, furniture and equipment, machines, selection and training of personnel.

**BEd 413(g) Word Processing Methods (3)**

Preparation to teach or administer word processing programs in secondary and post-secondary schools and business. Prerequisites: BEd 212, 321 (or equivalent).

**BEd 414(g) Word Processing Lab (3) (FWS)**

Practical experience in word processing using a microcomputer and other word processors. Prerequisite: BEd 413(g).

**BEd 415(g) Business Simulation Methods and Materials (4)**

Prerequisite: Computer Literacy  
A course to gain understanding of organizing and planning a Business Simulation course. Intensive work with the software used in this vocational course.

**BEd 443(g) Related Curriculum Development and Cooperative Mgmt. (4)**

A course to gain an understanding of organizing and planning a cooperative office education curriculum and to provide experience in developing units of instruction.

**BEd 445(g) Coordination Techniques for Cooperative Education (3)**

Development of coordination techniques through the study of objectives, programs, practices, laws, standards, and certification requirements of vocational education.

**BEd 495(g) Principles and Practices of Vocational Education (3)**

Philosophical, social, and economic forces that create the need for and the purposes of vocational education are examined.



**BEd 498(g) Problems in Business and Office Education (1-4) (Fws)**

An aspect of business and office education not dealt with in the regular curriculum. May be repeated as content varies.

**BEd 530 Current Trends and Issues in Business Education (4) (W)**

Purposes of Business Education, changing occupational requirements, results of latest thinking and research in Business Education, curriculum innovations and changes.

**BEd 570 Independent Study (1-4) (Fws)**

An opportunity for graduate study in a subject area not dealt with in the regular curriculum. May be repeated up to a total of four hours. Prerequisite: Consent of instructor.

**BEd 595 Special Problems (1-3) (Fws)**

Registration only after consultation with major advisor.

**BEd 597 Individual Study (1-3) (Fws)**

Project in Business Education. Registration only after consultation with major advisor.

**BEd 599 Thesis in Business Education (1-6) (Fws)**

Registration only after consultation with major advisor.

**Master of Science—Computer Science**

The degree, Master of Science, may be earned with a major in Computer Science according to requirements given in the Graduate Bulletin except that no course in research methods is required. A person applying for admission into the program may be accepted if one of the following two conditions is satisfied:

A. The person is in possession of a baccalaureate degree with a major in computer science from an accredited institution, and has a cumulative GPA of at least 2.75, or at least 3.25 for the last 45 credits.

B. The person is in possession of a baccalaureate degree with a major in other than computer science from an accredited institution, has completed at least a year of mathematics at the college level, and has a cumulative GPA of at least 2.75, or at least 3.25 for the last 45 credits. Any deficiencies as determined by the department must be removed after admission by completing some or all of the following courses:

1. Problem solving and programming: COMS 201, 202, and 204.
2. Hardware concepts: COMS 305 and 305L
3. Software concepts: COMS 315 and 380
4. Mathematics: Math 265
5. Communication skills (courses to be specified on an individual basis)

**Course Requirements**

1. Completion of four of the following six courses: 13-16 credits  
COMS 415g and COMS 416g, COMS 420g, COMS 425g, COMS 500,  
COMS 502, COMS 504

2. At least 20 more credits from among the following courses: 20-35 credits COMS 406g, COMS 411g, COMS 415g and COMS 416g, COMS 425g, COMS 430g, COMS 450g, COMS 451g, COMS 470g, COMS 475g, COMS 490g, CIS 427g, CIS 429g, CIS 461g, CIS 465g, CIS 482g, and any 500 level course in Computer Science. Plan B (Project) students must include COMS 597 (3 cr.) and Plan A (Thesis) students must include COMS 599 (6 cr.)

3. Approved electives from Computer Science or credits other related fields—0-15 credits.

TOTAL CREDITS—45-48 credits

Plan A students must complete a minimum of 45 credits, 6 of which are for the thesis. Plan B students must complete a minimum of 48 credits, 3 of which are for a project. This project is intended to integrate concepts acquired in the course work and must be approved by the major advisor. Written and oral examinations are required in both programs (guidelines available from the department). In either case, students must complete a minimum of 23 credit hours of 500-level courses.

**Computer Science Courses**

✧ **ComS 406(g) Computer Networks I (4) (S)**

A study of basic communications theory, components of data communications, network protocols, communication carrier facilities, error detection techniques and system planning considerations. Prerequisite: ComS 305. Not open to students who have completed CIS 375.

✧ **ComS 411(g) Compiler Design Theory I (4) (F)**

A study of several top-down and bottom-up parsers, semantics, intermediate code generation and error detection. Project required. Prerequisite: ComS 410 or ComS 502.

◊ **ComS 415(g) Operating Systems I (4) (FW)**

A study of operating systems as a resource manager with emphasis on memory, process, processor and file management. Prerequisite: ComS 380 and CIS 429.

◊ **ComS 416(g) Operating Systems I Lab (1) (FWS)**

Design and implementation of a simulated batch multiprogrammed operating system. Project required. Prerequisite: ComS 415.

◊ **ComS 420(g) Design and Implementation of High Level Languages (4) (FS)**

An examination of underlying concepts in high level programming languages and techniques for their implementation in a selected group of such languages along with a discussion of the interrelationship between programming and programming languages. Prerequisite: ComS 315.

◊ **ComS 425(g) Computer Architecture (4) (FS)**

Basic principles of processor organization, machine instructions, addressing modes, memory management, and input/output operations. Prerequisite: ComS 305.



- ✕ **CIS 427(g) Design and Implementation of High Level Languages (4) (FS)**  
Study of the physical design of a computer information system. The course builds on the prerequisite, which uses a case study to develop a general design for a system. This course will continue into the physical design of the new system using the same case study. Prerequisite: CIS 346.
- ✕ **CIS 429(g) Introduction to Software Engineering (4) (WS)**  
Basic concepts, techniques and tools in structured software design and development. A discussion of software security, generality, mobility, reliability and feasibility. Prerequisite: CIS 346 or ComS 315. Not open to students who have taken or plan to take ComS 540.
- ✕ **ComS 430(g) Teaching Computer Science (4) (W)**  
For students planning to teach computer science. Issues, methods and materials typically encountered in the instruction of elementary and secondary school computer science. Prerequisite: Consent of instructor.
- ✕ **ComS 450(g) Numerical Analysis I (4) (F)**  
Numerical solutions to equations, finite differences, interpolation formulas, numerical calculus. Only eight credits of ComS 250, ComS 450 and ComS 451 will count in the ComS major. Prerequisite: ComS 250 and Math 331 or consent of instructor.
- ✕ **ComS 451(g) Numerical Analysis II (4) (W)**  
Numerical methods related to linear algebra and differential equations. Only eight credits of ComS 250, ComS 450 and ComS 451 will count in the ComS major. Prerequisite: ComS 450 and Math 327.
- ✕ **CIS 461(g) Database Design and Implementation (4) (FW)**  
In-depth study of data modeling and systems development in a database environment. Investigation and application of database concepts including database administration, technology and management. Prerequisite: CIS 346 or ComS 315. Not open for credit to those who have taken or plan to take ComS 521.
- ✕ **ComS 470(g) Computer Graphics (4) (W)**  
Introduction to graphic display devices, related mathematical theory, and software for display files, interactive graphics, and three-dimensional graphics. Prerequisite: ComS 315.
- ✕ **ComS 475(g) Introduction to Artificial Intelligence (4) (F)**  
Introduction to artificial intelligence including theorem proving, heuristic searches, problem solving, computer analysis of scenes, robotics, natural language understanding and knowledge base systems. Prerequisite: ComS 315 or CIS 427.
- ✕ **CIS 482(g) System Analysis and Design Field Project (4) (FS)**  
Students are assigned to a system development project. The project involves part, but preferably all, of the development cycle. Students work in teams to acquire practical experience in such projects, including the behavioral aspects.
- ✕ **ComS/CIS 490(g) Special Problems in Computer Science/CIS (1-4) (FWS)**  
Independent study of advanced topics under guidance of department faculty. May be repeated to a maximum of four credits. Prerequisite: Junior standing and consent of instructor.
- **ComS 500 Fundamental Structures (3) (F)**  
A study of fundamental data structures, file organization and handling, internal/external sorting, searching and merging techniques, and an in-depth study of recursive programming. Prerequisite: Graduate standing.
- **ComS 502 Automata and Formal Languages (3) (F)**  
A study of finite state machines, syntax and semantics of formal languages and the application of formal languages in compiler design theory. Prerequisite: Graduate standing.
- **ComS 504 Algorithm Analysis (3)**  
A continuation of ComS 500 including an analysis of several advanced search and sort algorithms, efficiency comparisons of algorithms, backtracking, lower-bound theory, NP-problems and approximation algorithms for some NP-problems. Prerequisite: ComS 500.
- ComS 506 Computer Networks II (4) (W)**  
A study of network topology, routing algorithms, local network structure, virtual terminal and file transfer. Prerequisite: ComS 406, ComS 415, and ComS 425.
- ComS 511 Compiler Design Theory II (3) (S)**  
A continuation of ComS 411 including run-time memory management, code generation, and code optimization. Prerequisite: ComS 411 and ComS 502.
- ComS 515 Operating Systems II (3) (S)**  
Continuation of ComS 415 with emphasis on concurrent programming, critical section and deadlock problems and performance evaluation. Project required. Prerequisite: ComS 415 and ComS 500.
- ComS 521 Data Base Systems I (3) (W)**  
Fundamental concepts of the three types of data bases: hierarchical, network, and relational. Discussion of data base programming languages with major emphasis given to one such language. Prerequisite: ComS 500.
- ComS 522 Data Base Systems II (3) (S)**  
A study of techniques for designing efficient data bases. Prerequisite: ComS 521.
- ComS 525 Analysis of Computer Systems (3) (F)**  
Comparison of various computer architectures based on instruction-set processors, addressing techniques, I/O structures, memory organization and protection schemes. Prerequisite: ComS 425.

any  
500

**ComS 530 Topics in Computer Education (3) (S)**  
Issues and trends in computer science Education including course-author languages, hardware and software developments. Prerequisite: ComS 430 or equivalent.

**ComS 540 Software Engineering I (3) (W)**  
A study of the design and development of software systems including real-time system design, management and implementation along with system security and privacy. Prerequisite: ComS 500.

**ComS 541 Software Engineering II (3) (S)**  
A continuation of ComS 540 including systems maintenance, reliability, efficiency, verification/validation and legal aspects of software development. Prerequisite: ComS 540.

**ComS 580 Seminar in Computer Science (1-3) (FWS)**  
Discussion of current topics not included in other computer science courses. May be repeated for a maximum of three credits. Prerequisite: Graduate standing and consent of instructor.

**ComS 590 Advanced Topics in Computer Science (1-3) (FWS)**  
Opportunity for independent study of advanced topics not covered in depth in other computer science courses. May be repeated for a maximum of four credits. Prerequisite: Graduate standing and consent of instructor.

**ComS 597 Individual Study (3) (FWS)**  
Plan B project in Computer Science. Prerequisite: Consent of graduate advisor.

**ComS 599 Thesis in Computer Science (6) (FWS)**  
Plan A thesis in Computer Science. Prerequisite: Consent of graduate advisor.

### ***Master of Science—Counseling and Human Development***

The degree may be earned with a Secondary School Counseling, College Student Personnel or Community Counseling emphasis. Each of the three emphases may also be further tailored to meet the specialized interests of students.

In addition to the general requirements for admission, the applicant must submit (1) an undergraduate grade point average of at least 3.0, or 3.25 for the most recent 45 quarter hour credits of graded course work, based on a 4.0 scale, (2) a score from the Miller Analogies Test (MAT) or from the General Aptitude portion of the Graduate Record Examination (GRE), (3) a writing sample, (4) two applications: one to the Graduate Office and one to the Counseling and Human Development Program, and three letters of recommendation, and (6) an interview.

### **Program Requirements**

The program requires a minimum of 63 credits, 50 to 56 of which are required of all candidates. Remaining credits (7-13) may be elected in consultation with the advisor.

While students are admitted with the expectation that they will successfully complete the program, continued improvement in interpersonal competence and counseling skill development is required. Students are periodically reviewed to determine their satisfactory progress. In order to be maintained in the program, students must maintain a 3.0 or better average, adhere to ethical standards of the profession, function in an adequate fashion and at an acceptable professional level in the practicum setting, and demonstrate personal qualities consistent with professional norms.

### **Core Courses Required of All Students (50-56 credits required)**

Ed 502(3), 503(3), 548(3), 549(3), 550(3), 551(3), 552(3), 552L(1-3), 553(3), 554(3), 564(3), 565(3), 570(1), 571(3), 591 a-d(6-9), 597(3) for Plan B or 599(6) for Plan A, and SpEd 471g.

### **Other Required Courses (3-9 credits required)**

For School Counseling the additional required course is Ed 555; for College Student Personnel, Ed 560, 561, 562; and for Community Counseling, Psy 463g and 465g.

### **Electives (0-10)**

Elective credits are identified with the advisor to meet individual professional objectives.

### **Ed 502 Statistics in Educational Research (3) (FW)**

Basic theory, techniques for using descriptive and inferential statistics, and application in educational research designs.

### **Ed 503 Methods of Research (3) (F)**

Methodology of design of research studies; preparation of effective technical reports. Ed 502 recommended.

### **Ed 548 Foundations of Counseling (3) (F)**

Introduction to the profession of counseling. Emphasis is on introductory concepts in the profession including developmental theories; aspects of counseling role, relationship, and theories; professional organizations and code of ethics.

### **Ed 549 Counseling Skills I (3) (F)**

Study and development of basic counseling skills in the one-to-one counseling interview. Practical application occurs through tapes and transcripts of actual counseling situations. Improves interpersonal communication skills in listening and responding.

### **Ed 550 Counseling Theories (3) (W)**

Students study and examine current counseling principles and theories in order to utilize counselor techniques associated with those theories.

### **Ed 551 Counseling Skills II (3) (W)**

A continuation of Counseling Skills I through mastery

of additional skills. Application and practice occurs through audio and video tapes and transcripts.  
Prerequisites: Ed 500, 548, 549.

**Ed 552 Group Counseling II (3) (S)**

Group dynamics in theory and practice. Prerequisite: Ed 549.

**Ed 552L Group Counseling Lab (1-3) (S)**

Practice of group skills. Must be taken with 552.

**Ed 553 Individual Appraisal (3) (S)**

Study of various types of tests, testing programs, and appraisal techniques and tools for individuals.  
Prerequisite: Knowledge of descriptive statistics or Ed 502.

**Ed 554 Career Development (3) (W)**

Theories of career development and vocational guidance programs. Guidance strategies to promote career development sources of occupational/educational information.

**Ed 555 Organization and Administration of Guidance Services (3) (F)**

Examination of principles of organization and administration of guidance and counseling programs. Development of skills to administer program. May not be taken prior to Practicum.

**Ed 560 Organization of Student Personnel Services (3) (F)**

Introduction to all the college student services, development theory and professional issues.

**Ed 561 The College Student (3) (W)**

Discussion of the characteristics of college students and the ways they change while in college.

**Ed 562 Higher Education in the U.S. (3) (S)**

Introduction of the system of higher education in the U.S.

**Ed 564 Theory and Process of Consultation (3) (SS)**

Exploration of theory and process of various consultation models, consultant roles, research and evaluation across community, mental health, and school settings.

**Ed 565 Counseling Skills III (3) (S)**

A continuation of Counseling Skills I and Counseling Skills II. Expectations are for refinement of counseling techniques. Prerequisites: Ed 550, 551, tape.

**Ed 570 Advanced Issues in Counseling Seminar (1) (FWS)**

Emphasizes current issues and developments in the broad field of counseling and human development. May be taken after 36 credits.

**Ed 571 Research Seminar (1-3) (FWS)**

Discussion of research topics, methodologies, and procedures in Counseling and Human Development. Prerequisites: Ed 502, 503 and after 36 credits.

**Ed 591 Practicums (in various options) (6-9) (FWS)**

A practical and field experience in counseling and guidance. Prerequisite: Ed 565.

**Ed 597 Plan B (Project—3) (FWS)**

Major work in chosen area in one of three options: project paper, journal article, or videotape presentation, available for candidates for the master's degree. Project approval required from advisory committee.

**Ed 599 Plan A (Thesis—6) (FWS)**

Major study in chosen area. Available for candidates for the master's. Project approval required from advisory committee.

**Psy 463g Abnormal Psychology (4) (W)**

Description and explanatory models are detailed in relation to their relevance to behavior pathology and the prevention of abnormal behavior.

**Psy 465g Clinical Psychology (4) (S)**

Introduction to techniques of psychotherapy, crisis intervention, interviewing, clinical assessment and prevention of disorder. Emphasis on psychotherapy as a process of understanding.

**SpEd 471g Behavioral and Environmental Management (3) (FWS)**

Analysis and programming of behavior and environmental variables as they relate to handicapped children in the classroom. Learning theory.

**Master of Science—Educational Theatre**

The degree may be earned with a major in Educational Theatre. Scores on the General Aptitude portion of the Graduate Record Examination (GRE) are required with the application for admission.

This program is available to qualified students who seek careers in educational 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 course work to correct deficiencies will be required by their major advisor.

In addition to completing the research component and nine hours of professional education, 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. 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 Courses**

**Spch 322(g) Development of the Drama I (4) (F)**

Greek and Roman tragic and comic playwrights, Aristotelian criticism, and classical theatre history. (Cross-listed as Engl 232)

**Spch 324(g) Development of the Drama II (4) (W)**  
Western drama from the Middle Ages through the eighteenth century as reflected in readings from representative plays and theatre history. (Cross-listed as Engl 344.)

**Spch 326(g) Development of the Drama III (4) (S)**  
The drama of the nineteenth and twentieth centuries, viewed as a revolutionary, cultural, political, and artistic force. (Cross-listed as Engl 345)

**Spch 330(g) Dramatic Production I (3-6) (SSI)**  
Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audiences. May be repeated by undergraduates. Prerequisite: Consent of instructor.

**Spch 331(g) Dramatic Production II (3-6) (SS2)**  
Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audiences. May be repeated by undergraduates. Prerequisite: Consent of instructor.

**Spch 332(g) Stage Movement (4) (F, alternate years)**  
The theory and practice of movement, pantomime, and improvisation in the actor's creation of a physical characterization for the stage. Prerequisite: Spch 222 or consent of instructor.

**Spch 333(g) Stage Voice (4) (F, alternate years)**  
The theory and practice of voice usage as it pertains to the actor's creation of a vocal characterization for the stage. Prerequisite: Spch 101.

**Spch 334(g) Stage Design I (4) (F)**  
The fundamentals of designing for the stage; the designer's responsibilities, including the study of position, color, line, and form. Practical experience in design presentation through the execution of color renderings and scale models. Prerequisite: Spch 334(g) or consent of instructor.

**Spch 336(g) Stage Design II (4) (on demand)**  
Advanced investigation into designing for the stage, includes designing for different types of theatres and theatrical events. Designs presented through the execution of color renderings and scale models. Prerequisite: Spch 334(g) or consent of instructor.

**Spch 337(g) Stage Lighting (4) (W, alternate years)**  
The use and capabilities of light in dramatic productions, lighting instruments, control devices, and lighting design. Prerequisite: Spch 224.

**Spch 340g The Teaching of Speech (4) (F, alternate years)**  
Methods of conducting high school communication classes, structuring speech curriculum, selecting textbooks, and methods of speech evaluation. Prerequisite: Core courses or equivalent.

**Spch 341(g) Creative Dramatics (3) (S)**  
The principles and practices of informal drama and storytelling with children; the use of creative dramatics in the elementary classroom.

**Spch 342(g) Children's Theatre (3) (F, alternate years)**  
The principles which govern children's theatre; the analysis of scripts, production problems, and procedures to be used for young audiences.

**Spch 344(g) Principles of Play Direction (4) (W)**  
The theory and practice of selecting and blocking plays; a consideration of composition picturization, movement, stage business, and pantomimic dramatization.

**Spch 416(g) Special Projects in Speech Communication (4) (on demand)**  
Advanced individualized creative or investigative work in a particular phase of speech communication. May be taken more than once if content is substantially different. Prerequisite: Consent of Instructor.

**Spch 429(g) Advanced Play Direction (4) (W)**  
Advanced study of techniques of visual dramatization through the use of movement, pantomime, tempo, and the analysis of character. Prerequisite: Spch 344 or consent of instructor.

**Spch 430(g) Styles of Directing (4) (S, alternate years)**  
Principles and problems in direction of major historical and theatrical styles. Prerequisite: Spch 344 or consent of instructor.

**Spch 431(g) Styles of Acting (4) (S, alternate years)**  
Principles and problems in the acting of major historical and theatrical styles. Prerequisite: Spch 222 or consent of instructor.

**Spch 432 Shakespearean Acting (4) (F, alternate years)**  
Techniques for and problems in acting and staging Shakespeare's plays in the contemporary theatre.

**Spch 434(g) Special Projects in Theatre Arts (4) (on demand)**  
Opportunity for the advanced student to do individual creative or investigative work in a particular phase of theatre. May be taken more than once if content is substantially different. Prerequisite: Consent of instructor.

**Spch 437(g) Stage Design History (4) (on demand)**  
The study of historical styles of theatre architecture and stage design through history.

**Spch 438(g) Contemporary Playwrights (4) (F or S, alternate years)**  
Individual British, American, and continental playwrights; may be elected twice when the reading lists are substantially different.

**Spch 520 Seminar in Educational Theatre (3) (on demand)**  
Problems involved in the development of educational theatre programs. Prerequisite: Consent of instructor.

**Spch 522 Dramatic Theory and Criticism (3) (on demand)**

Principles of dramatic criticism from Aristotle to the present day. Critical standards and methods, and theory application in the evaluation of drama in performance. Prerequisite: Consent of instructor.

**Spch 540 Problems in Speech Education (3) (on demand)**

An examination of the problems involved in the development of speech communication programs.

**Spch 595 Special Problems (1-3) (on demand)**

Seminar designed to focus on topics of special concern in the field. Topics and content will vary.

**Spch 597 Individual Study (1-3) (on demand)**

Individualized creative or investigative work in a particular phase of speech communication. May be taken more than once if content is substantially different. Prerequisite: Consent of instructor.

**Spch 599 Thesis in Speech (6) (on demand)**

Research and preparation of major study in a chosen area. Available for candidates of the Master's degree. Project approval required from advisor committee.

***Master of Science—Elementary Education***

Applicants for a Master of Science degree in Elementary Education must have completed a satisfactory undergraduate program in Elementary Education or the equivalent, and present the score on the Miller Analogies Test (MAT).

**Course Requirements**

**Group I** - Research Component (minimum nine credits)

\*Ed 502 (3) Statistics in Education Research

\*Ed 503 (3) Methods of Research

AND

\*Ed 599 (6) for Plan A Thesis

OR

\*Ed 597 (3) for Plan B Project

**Group II** - Elementary Education Major (21-24 credits)

\*Ed 501 (3) Psychological Foundations of Education

\*Ed 540 (3) Elementary Children and Learning

\*Ed 541 (3) Developments in Elementary Education

\*Ed 542 (3) Elementary School Curriculum

**\*Required Courses**

To complete Group II, selected courses from any or all areas listed below must be approved by advisor and department:

**Early Childhood**

Ed 471g (4) Curriculum and Instruction for Early Childhood Education

Ed 474g (3) Practicum in Early Childhood Education

Ed 475g (3) Curriculum Development for Young Children

SpEd 425g (4) Teaching Young Children with Special Needs

Ed 478g (3) Play and Development

Ed 476g (3) Early Childhood Education Workshop

**Curriculum and Foundation**

Ed 423g (3) Current Trends in Elementary Social Studies

Ed 495g (3) Comparative Education

Ed 497g (3) Readings in Education

Ed 537 (3) Curriculum Theory and Principles

Ed 553 (3) Individual Appraisal

**Reading/Language Arts**

Ed 425g (3) Improvement of Instruction in Reading and Language Arts

Ed 441g (4) Children's Literature: Content and Methods

Ed 445g (3) Remedial and Corrective Reading

Ed 446g (2) Remedial and Corrective Reading Clinic

Ed 346g (3) Linguistic Foundations for Reading Instruction

Ed 447g (2) Reading Workshop

Ed 448g (3) Reading Study Skills in the Content Areas

SpEd 592 (3) Administration and Supervision of Reading Instruction

SpEd or Ed 545 (3) Diagnosis and Correction of Reading Difficulties

SpEd or Ed 546 (2) Reading Clinic: Diagnosis

**Special Education -**

SpEd 471g (3) Behavioral and Environmental Management

SpEd 545 (3) Diagnosis and Correction of Reading Difficulties

SpEd 572 (3) Educational Diagnosis and Programming

**Gifted Education—**

SpEd 421g (3) The Gifted Child

SpEd 422g (3) Curriculum and Methods for the Gifted

SpEd 562 (3) Gifted Reader

Ed 558 (3) Counseling the Gifted

**Supervision—Ed 535 (6), 536 (3), 531 (3)**

Ed 535 (6) The Process of Supervision

Ed 536 (3) Supervisory Theories

Ed 531 (3) Teacher/Student Rights

**Group III—Related Fields (6-9 credits)**

All students are required to complete a minimum of six credits in fields that differ from the professional areas of emphasis used in Group II. For example, graduate Liberal Arts Studies (MLA) courses may be applied to Group III. Related fields credits are determined with advisor and department consent.

***Elementary Education Courses***

**Ed 346(g) Linguistic Foundations for Reading Instruction (3) (Fs)**

Establishes a foundation of linguistic principles and language processing as a basis for understanding reading as a communication process. Prerequisite: Ed 345.



**Ed 423(g) Current Trends in Elementary Social Studies (3)**

Examines social studies as a process approach. Emphasis on skill development in inquiry teaching as social science study technique. Prerequisite: Teaching experience.

**Ed 425(g) Improvement of Instruction in Reading and Language Arts (3)**

Designed to meet needs of teachers enrolled. All phases of reading and language arts process or evaluation are appropriate. Prerequisite: Teaching experience.

**Ed 441(g) Children's Literature: Content and Methods (4) (FWS)**

Systematic study of trade books available for use with students preschool through adolescence. Overview of current trends, selection criteria and strategies for making literature an integral part of the curriculum are included.

**Ed 445(g) Remedial and Corrective Reading (3) (FS)**

Presentation of special methods and materials in teaching reading to disabled readers at the primary, intermediate and secondary level. Prerequisites: Ed 345 or teaching experience. [Same as SpEd 445(g)]

**Ed 446(g) Remedial and Corrective Reading Clinic (2) (Fs)**

Supervised practice in remediating reading-disabled children at the primary, intermediate, and secondary level. Prerequisites: Ed 345 or teaching experience, SpEd 445. [Same as SpEd 446(g)].

**Ed 447(g) Reading Workshop (2)**

Designed for reading teachers to update theories and practices in teaching reading. Topics will vary as offered.

**Ed 448(g) Reading Study Skills in the Content Areas (3) (S)**

Teaching techniques to improve reading ability in content materials; vocabulary, comprehension, study skills, and provisions for individual learning differences.

**Ed 471(g) Curriculum and Instruction in Kindergarten Education (4) (Fs)**

Overview of early childhood education. Required for kindergarten licensure. Prerequisites: Ed 110, 213, and junior status.

**Ed 474(g) Practicum in Early Childhood Education (3) (S)**

In-depth study of language development; reading readiness and early reading instruction. Required for kindergarten licensure. Prerequisites: Ed 110, 214, 471, or concurrent with 471.

**Ed 475(g) Curriculum Development for Young Children (3) (FS)**

Provides knowledge of curriculum approaches and instructional methods in the content areas of mathematics, science, social studies, language, reading readiness and health. Prerequisites: Ed 375 or consent of instructor.

**Ed 476(g) Early Childhood Education Workshop (1-3)**

Workshop for experienced nursery school and kindergarten teachers in improvement of teaching skills. Topics vary.

**Ed 478(g) Play and Development (3) (S)**

Examination of the central role of play to learning and development of young children. Content, functions, outcomes, environments and teacher responsibility are explored. Prerequisites: Ed 370, 371 or consent of instructor.

**Ed 495(g) Comparative Education (3)**

Foreign education systems. International understanding through education. Introduction to UN education agencies.

**Ed 497(g) Readings in Education (3)**

Readings and supervised study of topics in depth. On demand only. May be repeated up to six credits.

**Ed 501 Psychological Foundations of Education (3)**

A systems approach to schools and systems of psychology: Principles affecting learning and instruction.

**Ed 502 Statistics in Educational Research (3) (W)**

Basic theory, techniques for using descriptive and inferential statistics, and application in educational research designs.

**Ed 503 Methods of Research (3) (F)**

Methodology of design of research studies; preparation of effective technical reports. Ed 502 recommended.

**Ed 531 Teacher/Student Rights (3) (S)**

Examination of the legislative and judicial actions affecting teachers and students, including due process relating to exceptional children.

**Ed 535 The Process of Supervision (6) (S)**

Specific techniques and systems to supervise instruction. Interpersonal communication and group process skills are applied to administrative supervision. Prerequisite: Ed 530.

**Ed 536 Supervisory Theories (3)**

A study of management models and techniques for supervisors to systematically improve instruction in a variety of organizational climates. Prerequisite: Ed 530 and Ed 535.

**Ed 537 Curriculum Theory and Principles (3) (S)**

Examination of principles, contemporary theories and change process alternatives as they impact on the school education program.

**Ed 540 Elementary Children and Learning (3)**

Recent trends and research in educational foundations and effect upon elementary curriculum and/or practice. Topics vary each quarter.

**Ed 541 Developments in Elementary Education (3)**

Deals with a particular problem or recent program developments in elementary education. Topics vary each quarter.



**Ed 542 Elementary School Curriculum (3)**

History, development and evaluation of curriculum. Analysis of recent trends and development of curriculum sequence at elementary level. Ed 537 recommended.

**Ed 545 Diagnosis and Correction of Reading Difficulties (3)**

Advanced study of reading difficulties. Prerequisites: Ed/SpEd 445.

**Ed 546 Reading Clinic: Diagnosis (2)**

Individual case studies or supervision of individual case studies. Prerequisite: Ed 545.

**Ed 553 Individual Appraisal (3) (F)**

Study of various types of tests, testing programs, and appraisal techniques and tools for individuals.

**Ed 558 Counseling the Gifted (3)**

A variety of theoretical and practical issues related to counseling and teaching the gifted student. Prerequisites: SpEd 421g/Ed 432g or equivalent, and SpEd 422g/Ed 432g/Ed 431g or equivalent, and SpEd 422g/Ed 432g or equivalent, or permission of instructor.

**Ed 597 Individual Study in Education (1-3) (FWS)**

Independent research for advanced graduate students. Repeated to a maximum of six credits. Prerequisites: Consent of instructor and advisor.

**Ed 599 Thesis or Field Research (1-6) (FWS)**

Major study in chosen area. Available for candidates for the master's or specialist degree. Project approval required from advisor committee.

**SpEd 420(g) Curriculum and Methods for the Gifted (3)****SpEd 421(g) The Gifted Child (3)**

Definition, identification, and current school program for the mentally-superior or specially-talented child.

**SpEd 422(g) Curriculum and Methods for the Gifted (3)**

Exploration of ways to construct a curriculum suitable for the education of gifted students at elementary and secondary levels. Prerequisite: SpEd 421(g)

**SpEd 425(g) Teaching Young Children with Special Needs (4) (W)**

Provides the day care or kindergarten teacher with skills in assessment, child study procedures and curricular adaptations for young children with handicaps in integrated settings. Prerequisites: SpEd 220 or consent of instructor.

**SpEd 471(g) Behavioral and Environmental Management (3) (Fw)**

Analysis and programming of behavior, environmental variables as they relate to handicapped children in the classroom.

**SpEd 545 Diagnosis and Correction of Reading Difficulties (3)**

Advanced study of reading difficulties. Prerequisites: SpEd 445(g).

**SpEd 572 Educational Diagnosis and Programming (3)**

Critical analysis of selected applications of behavioral science to education of handicapped children and youth, including implications for use in education. Prerequisites: Graduate standing, SpEd 411/463 and consent of instructor.

**SpEd 592 Administration and Supervision of Reading Instruction (3)**

Problems in the administration and supervision of remedial reading programs. Prerequisites: Six credits of remedial reading courses.

**Master of Science—Music Education**

Admission to the music education Master's program requires an undergraduate GPA of 3.00. Upon admission, all students are required to take examinations in music theory and music history. In addition, performance auditions are required. The examinations and the audition are used for advising purposes and the students who show deficiencies are required to correct them with undergraduate study.

Students with a lower GPA may be admitted on a provisional basis after consultation with the Dean of Graduate Studies.

Plan A is designed for thesis research. Students interested in presenting Lecture—Recitals should follow Plan B.

The program should include, in addition to 9 hours of professional education, 27 hours of music with elective hours in the major or related areas.

**Plan A**

**Group I**—Research Component (minimum nine credits)  
Mus 502 (3), 599 (6)

**Group II**—Major (minimum 21 credits)  
Performance/Composition (6 cr.); minimum of two credits at the

500-level required for lecture/recital presentation.  
Ensemble (3 cr.)

Theory/History (12 cr.); Mus 510 (3), 511 (3), 576 (3),  
Electives (3)

**Group III**—Electives (minimum six credits)  
from the major and/or related areas

**Group IV**—Education (nine credits)

**Plan B**

**Group I**—Research Component (minimum six credits)  
Mus 502 (3), 597 (3)

**Group II**—Major (minimum 24 credits)  
Performance/Composition (six cr.); minimum of two credits at the 500-level required for lecture/recital presentation.

Ensemble (three cr.)  
Theory/History (15 cr.); Mus 510 (3), 511 (3), 576 (3),  
Electives (6)

**Group III**—Electives (minimum nine credits)  
from the major and/or related areas

**Group IV**—Education (nine credits)

### **Music Courses**

**Mus 318(g) Composition—Intermediate (3) (FWS)**  
Private composition instruction one hour a week  
including two-hour seminar with all composition  
students. Study includes composition in all musical  
styles. Prerequisite: Mus 218 and upper divisional jury.

**Mus 329(g) Women's Chorus (1) (on demand)**  
Open to all students on demand with director. May be  
repeated for credit.

**Mus 330(g) Concert Band (1) (Fws)**  
Open to all students on demand with director. May be  
repeated for credit.

**Mus 331(g) Symphonic Wind Ensemble (1) (Fws)**  
Membership by audition only. May be repeated for  
credit.

**Mus 332(g) Stage Band (1) (Fws)**  
Membership by audition only. May be repeated for  
credit.

**Mus 333(g) Orchestra (1) (Fws)**  
Membership by audition only. May be repeated for  
credit.

**Mus 335(g) Concert Choir (1) (Fws)**  
Membership by audition only. May be repeated for  
credit.

**Mus 336(g) Festival Choir (1) (Fws)**  
Open to all students on demand with director. May be  
repeated for credit.

**Mus 337(g) Pop Choir (1) (FWS)**  
Membership by audition only. May be repeated for  
credit.

**Mus 338(g) Chamber Singers (1) (FWS)**  
Membership by audition only. May be repeated for  
credit.

**Mus 357(g) Commercial Keyboards (1) (FWS)**  
Study and practice of keyboard usage in popular  
literature of the last 100 years. Styles will range from  
early blues and ragtime through dixieland, swing, folk,  
gospel, boogie woogie, country, various Latin styles  
and rock. Extensive analysis of chordal structures and  
idiomatic usage. May be repeated for credit.

**Mus 373(g) American Music (3) (on demand)**  
History of music in the United States to include  
analysis of stylistic features in the context of historic,  
cultural, and artistic developments. On request.

**Mus 378(g) Collegium Musicum (1) (FWS)**  
A workshop for the music history and musicology  
courses concerned with the performance of music from

the Middle Ages and Renaissance. May be repeated for  
credit.

**Mus 381(g) Electronic Music (3) (FW)**  
Equipment and techniques of electronic music,  
including basic synthesis and recording techniques.  
Permission of the instructor required.

**Mus 382(g) Solo and Ensemble Literature for Brass  
(1) (on demand)**  
Repertoire for brass instruments. On request.

**Mus 391(g) Survey of Music Literature: Solo Song  
(S88)**  
Study of solo song literature. Intended for majors and  
minors in music. Prerequisite: Mus 103

**Mus 392(g) Survey of Music Literature: Orchestral  
(on demand)**  
Study of orchestral literature. Intended for majors and  
minors in music. Prerequisite: Mus 103.

**Mus 393(g) Survey of Music Literature: Choral (on  
demand)**  
Study of choral literature. Intended for majors and  
minors in music. Prerequisite: Mus 103.

**Mus 394(g) Survey of Music Literature: Chamber  
Music (on demand)**  
Study of chamber music literature. Intended for majors  
and minors in music. Prerequisite: Mus 103.

**Mus 395(g) Survey of Music Literature: Keyboard  
(W)**  
Study of keyboard literature. Intended for majors and  
minors in music. Prerequisite: Mus 103.

**Mus 396(g) Survey of Music Literature: Wind Band  
(on demand)**  
Study of wind band literature. Intended for majors and  
minors in music. Prerequisite: Mus 103.

**Mus 399-404(g) Small Ensemble (1 each) (FWS)**  
Preparation and performance of both instrumental and  
vocal chamber music; accompanying. On request. May  
be repeated for credit. Areas as follows: 399(g)  
Percussion, 400(g) Vocal, 401(g) Strings, 402(g) Brass,  
403(g) Woodwinds, 404(g) Keyboard.

**Mus 406(g) Opera (2) (FWS)**  
Opera performance through small workshop ensembles  
and full productions. May be repeated for credit.

**Mus 410(g) Orchestration (3) (on demand)**  
The basic principles of orchestral writing.

**Mus 411(g) Band Arranging (3) (on demand)**  
Arranging for small ensembles and full band.

**Mus 414(g) Techniques of Musical Interpretation (3)  
(on demand)**  
Structural analysis as applied to basic interpretative  
techniques. Prerequisite: Consent of instructor. May be  
repeated for credit.

**Mus 418(g) Composition—Advanced (3) (FWS)**

Private composition instruction one hour a week plus two-hour seminar with all composition students. Study includes composition in all musical styles. Prerequisite: Mus 318 and upper divisional jury. May be repeated for credit.

**Mus 421(g) Seminar in Music Merchandising (3) (F)**

**Mus 422(g) Seminar in Music Management (3) (S)**

**Mus 423(g) Seminar in Commercial Music (3) (W)**

**Mus 441(g) Keyboard Pedagogy I (2) (W)**

Fundamentals of keyboard instruction on the elementary, secondary, and adult levels. Prerequisite: Private keyboard study and consent of staff.

**Mus 442(g) Keyboard Pedagogy II (2) (S)**

Methods of keyboard instruction. Prerequisites: Mus 441 and consent of the instructor.

**Mus 444(g) String Methods and Materials (2) (on demand)**

Literature pertaining to problems of string playing. Prerequisite: two credits of Music 267 in a secondary string instrument. (The second credit may be taken concurrently.)

**Mus 445(g) Stage Band Methods and Materials (2) (on demand)**

Course for the prospective teacher of stage bands in the public schools. Jazz history and analysis of technical problems. Literature, organization, instrumentation, notation, and improvisation. Prerequisite: Mus 341.

**Mus 446-447(g) Voice Pedagogy I-II (1 each) (on demand)**

446: Fundamental voice teaching techniques; 447: Instruction in repertoire interpretation and supervised teaching instruction. Prerequisite: Consent of instructor.

**Mus 450-468(g) Applied Music Performance—Level IV (1-3 each) (FWS)**

Private instruction, pedagogy, and master classes. May be repeated for credit. Areas as follows: 450(g) Piano, 455(g) Organ, 460(g) Voice, 465(g) Brass, 466(g) Woodwinds, 467(g) Strings, and 468(g) Percussion. Prerequisite: Advanced standing evaluation and completion of 300 level.

**Mus 470(g) Advanced Conducting (2) (S89)**

Advanced conducting. Prerequisite: Mus 206, 207, or 208.

**Mus 481(g) Audio Production (3) (WS)**

Equipment and techniques of electronic audio production, including multi-track recording, microphone techniques, mixing, and use of effects devices. Prerequisite: Mus 381.

**Mus 482(g) Music Synthesis (3) (S)**

Equipment and techniques of electronic music synthesis, including modular and integrated systems, analog and digital synthesis, MIDI, and electronic audio effects. Prerequisite: Mus 381.

**Mus 485(g) Projects in Audio Production (1-3) (FWS)**  
Individual projects in audio production. May be repeated for credit. Prerequisite: Mus 481.

**Mus 486(g) Projects in Music Synthesis (1-3) (FWS)**  
Individual projects in music synthesis. May be repeated for credit. Prerequisite: Mus 482.

**Mus 499(g) Workshop in Music Education (1-3) (on demand)**

Special topics in music. May be repeated for credit if topic varies.

**Mus 502 Research in Music and Music Education (3) (F)**

Research techniques and materials in music education and musicology.

**Mus 504 Workshops in Secondary School Music (2) (on demand)**

A series of one-week workshops held at the International Music Camp (International Peace Gardens) for vocal and instrumental music educators teaching in secondary schools.

**Mus 505 Graduate Recital (1-2) (on demand)**

May be repeated for credit.

**Mus 510 Directed Study in Music Theory (3) (F)**

Varied projects in the field of music theory. Course may be repeated for credit.

**Mus 511 Directed Study in Music History (3) (S)**

Varied projects in the field of music history. Course may be repeated for credit.

**Mus 540 Problems in Teaching and Supervising Music (3) (on demand)**

Advanced course in curriculum planning and materials. On request.

**Mus 541 Advanced Studies in Teaching Elementary School General Music (3) (on demand)**

Advanced study of music methods and materials for teaching music in the elementary schools.

**Mus 542 Advanced Studies in Teaching Secondary School General Music (3) (on demand)**

Advanced studies of music methods and materials for teaching music in the junior and senior high schools.

**Mus 545 Voice-Choral Techniques Institute (3) (on demand)**

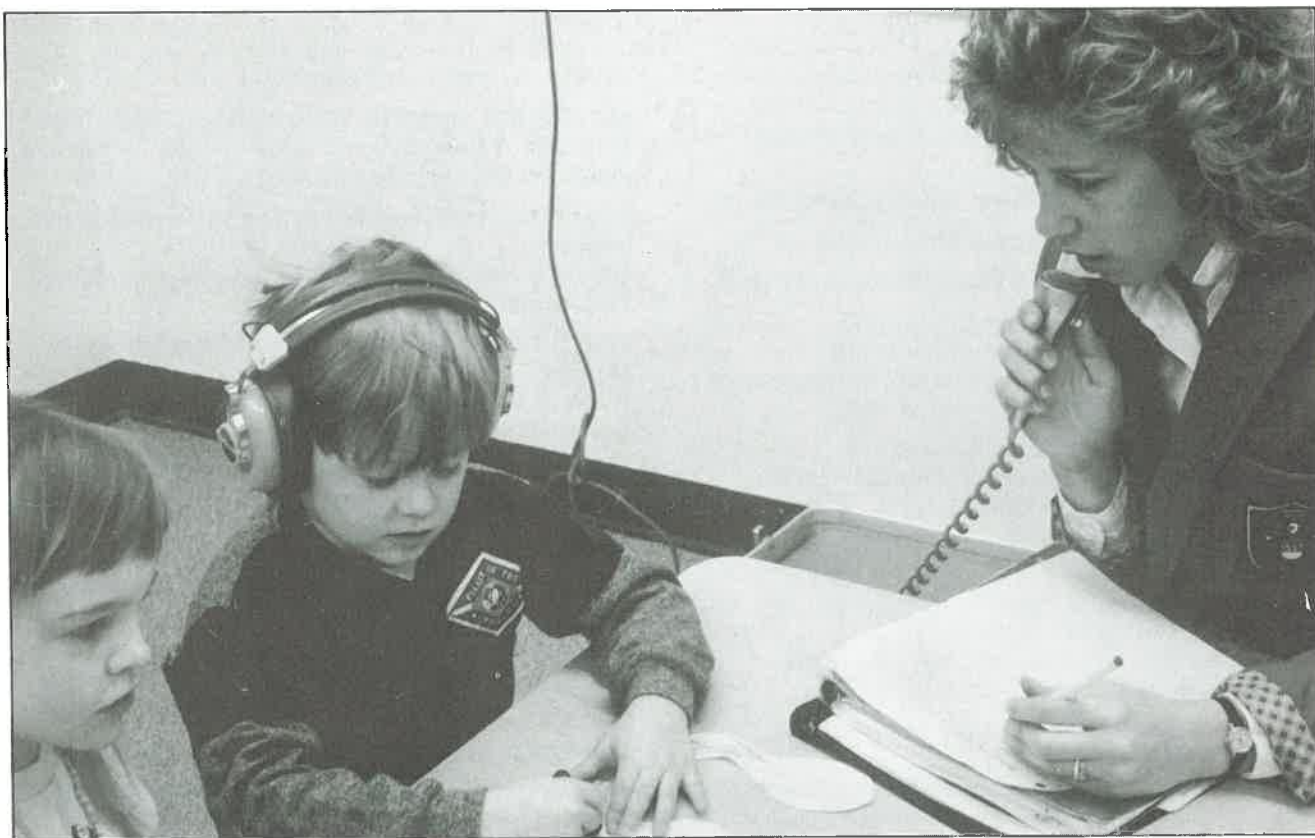
An institute designed to provide practical solutions to the problems of the adolescent voice.

**Mus 550-568 Applied Music Performance—Level V (1-2 each) (FWS)**

Private instruction, pedagogy, and master classes. May be repeated for credit. Areas as follows: 550 Piano, 555 Organ, 560 Voice, 565 Brass, 566 Woodwinds, 567 Strings, and 568 Percussion.

**Mus 570 Introduction to Musicology (3) (on demand)**

An introduction to musical research, bibliography, acoustics, philosophy of music, psychology of music, aesthetics, theory, and pedagogy.



**Mus 571 Music in the Middle Ages (3) (on demand)**  
(Mus 571 through 576 are seminar courses.)

**Mus 572 Music in the Renaissance (3) (on demand)**

**Mus 573 Music in the Baroque (3) (W89)**

**Mus 574 Music in the Classic Era (3) (S88)**

**Mus 575 Music in the Romantic Era (3) (W)**

**Mus 576 Music in the 20th Century (3) (S)**

**Mus 595 Special Problems (1-3) (FWS)**

**Mus 597 Individual Study (1-3) (FWS)**

**Mus 599 Thesis in Music (6)**

### ***Master of Science—Public and Human Service Administration (MSPHSA)***

This program is designed to provide people with the theoretical background and practical skills needed to administer public agencies, nonprofit organizations, and/or social service facilities. Applicants must hold a Bachelor's degree from an accredited institution with a minimum 2.75 grade point average overall or a 3.25 grade point average on the last 45 hours of academic work. In addition the applicant must have demonstrated proficiency in basic statistics, accounting and social sciences. People who are deficient in one or more of these areas may be granted provisional admission to the program, contingent on completion of specific requisite

courses. A score of 30 or higher on the Miller Analogies Test is required for admission to the MSPHSA program.

Completion of the program requires a minimum of 54 quarter credits with a minimum 3.0 grade point average. A grade of C or less in two or more courses is grounds for removal from the program. Not more than 16 credits earned in other accredited institutions or other graduate programs at Moorhead State University may be counted toward the minimum requirements of the degree. At least 38 credits must be earned through registration at MSU.

A "Proposed Graduate Course Plan" is to be filed with the Graduate Studies Office following admission and must be prepared in consultation with the MSPHSA Program Director. Information concerning the Final Project and other aspects of the program can be obtained in the Director's Office.

Students in the Public and Human Service Administration program are urged to consult with the Director prior to registration each quarter.

### **Public and Human Service Administration Courses** **PHSA 511 Introduction to Public and Human Service Administration (4) (F)**

An overview of the development of the field, plus discussion of conceptual and theoretical issues related to the practical skills involved in administering public and human service organizations.



**PHSA 512 Research Methods for Public and Human Service Administration (4) (WS)**

This course will provide the student with an understanding of how to structure research topics, gather and use appropriate data, employ valid statistical tests, and understand various qualitative and quantitative methodologies used in making managerial decisions. Prerequisite: Admission to the PHSA program.

**PHSA 535 Administrative Decision-Making in the Governmental Context (4)**

Analysis of the nature and processes of decision-making in the legislative and administrative realms of federal, state and local governments in the USA. A continuing theme is the possibilities and means of gaining access to such decision-making processes to understand why and how decisions are made and to better enable organizations to influence them. Prerequisites: Admission to the PHSA program or consent of instructor.

**PHSA 550 Topics in Public and Human Service Administration (1-4)**

Topics focusing on various issues and developments in the field of public and human service administration. May be repeated for credit under different topics. Prerequisite: Consent of Instructor.

**PHSA 563 Human Resource Development (4)**

Exploration of the training and development needs of employees and volunteers. Covers way adults learn,

motivation of volunteers, interviewing skills and the needs analysis, design implementation evaluation, administration, and cost effectiveness of training programs.

**PHSA 565 Legal Issues of Nonprofit Organizations (4)**

A study of nonprofit organizations with emphasis on their legal nature, tax status, and major concepts that determine rights, duties and liabilities of such organizations' employees and boards of directors.

**PHSA 571 Leadership in the Public and Nonprofit Sectors (4) (F)**

Theoretical and practical analysis of supervision, organizational innovation, creative policy development, fund raising, work-place design and the ethical dimensions of leadership in public and human service organizations.

**PHSA 581 Policy Analysis in Public and Human Service Administration (4) (S)**

Capstone course in the PHSA program, focusing on policy selection, estimation, implementation and evaluation with emphasis on problem solving within dynamic conditions in public and nonprofit contexts. Prerequisite: Must have completed 32 hours in the PHSA program.

**PHSA 595 Special Problems (1-4)**

Individual pursuit of topic through field experience, reading or research in public and human service



administration. May be repeated under various topics. Prerequisite: Permission of instructor and director of PHSA program.

**PHSA 597 Final Project in Public and Human Service Administration (3)**

Development, approval, research and defense of the student's Final Project which shall focus on a specific organization or general issue in public and human service administration. **Requires two (2) registrations for total of six hours.** Guidelines for completion of the Final Project may be obtained from the director of the PHSA program. Prerequisite: Completion of at least 44 hours in the PHSA program.

***Master of Science—Reading***

The Master of Science in Reading program is designed for teachers who wish to improve their instructional effectiveness in teaching reading. In addition to standard Moorhead State University Graduate School admissions standards, applicants for the Master of Science degree must achieve a Miller Analogies Test raw score of 30 or more and present evidence of one or more years of successful teaching. The Master of Science in Reading program is available in a prescheduled three-year sequence of courses. The three-year evening and summers sequence begins in September of odd numbered years. The Graduate Studies Office and the Department of Education have additional information on this program option.

**Course Requirements**

**Group I—Research Component** (nine credits minimum) Ed 502 (3), 503 (3), and 599 (6) for Plan A or 597 (3) for Plan B required.

**Group II—Reading Major** (24 credits minimum)

The program will include courses in instructional principles, professional reading, and clinical practicum.

**Group III—Electives** (9 credits minimum)

Courses selected from special education, psychology, counseling and human development, or other appropriate areas.

**Master of Reading Instruction Courses**

**Ed. 477(g) Annual MSU Reading Conference (1)**

Presentation of topics of current interest in reading.

**Ed. 480(g) Teaching Reading to Second Language Reader (3)**

Examines the psycholinguistic process of learning to read in a second language. Focuses on reading process, theories, literacy emergence, oral and written language relationships, strategies for assessing and teaching at elementary and secondary levels as well as in content subjects. Prerequisites: developmental reading and/or teaching experience.

**Ed. 503 Methods of Research (3)**

Methodology of design of research studies; preparation of effective technical reports. Ed 502 recommended.

**Ed. 513 Analysis of Developmental Reading (3)**

Literacy learning theories are studied and analyzed as basis for examining current instructional programs and practices. Pre-requisites: Ed 345 or 421c and classroom teaching experience.

**Ed. 514 Reading & Language Arts in the Content Area (3)**

Development of functional literacy competencies, K-12. Emphasizes strategies for improving and increasing literacy in content area subjects. Pre-requisite: Ed 513 and teaching experience.

**Ed. 515 Advanced Children's Literature (3)**

A study of several theories of literary criticism emphasizing: (1) ways they inform curriculum decisions about author/text/reader interactions, (2) the role of literature in the larger philosophical and social goals of education, and (3) standards for judging literary worth and strategies to guide students toward insightful use of literature in classroom and personal reading. Pre-requisite: Ed 441 or equivalent.

**SpEd 516 Gifted Children and Reading (3)**

Characteristics of and programming for gifted, talented, and creative learners are considered. Educational alternatives, to benefit gifted readers, are presented. Attention is paid to the role of parents and teachers in the education and guidance of gifted, talented, and creative students. Pre-requisite: Ed 345.

**Ed. 522 Perception, Language and Reading (3)**

Perceptual and language abilities of beginning readers are studied and the relationship of these abilities to reading success is examined. Prerequisite: undergraduate developmental reading course and classroom teaching experience.

**Ed. 524 Investigations in the Teaching of Reading (3)**

Presentation of an historical perspective to investigations in reading as well as discussion of current trends. Research on the grading process and on instructional practices is examined. Prerequisite: undergraduate developmental reading course and classroom teaching experience.

**Ed. 537 Curriculum Theory and Principles (3)**

Examination of principles, contemporary theories and factors effecting and impacting on educational programs with particular emphasis on literacy, preschool to 12.

**Ed. 545 Diagnosis/Correction in Reading Difficulties (3)**

Advanced study of reading difficulties. Analysis and use of standardized individual, standardized group, and teacher-constructed informal tests. Causes of reading difficulties, diagnosis and correction of word recognition and comprehension difficulties, difficulties in reading rate, and in oral reading are studied. Prerequisite: undergraduate developmental reading course and classroom teaching experience.



**Ed. 546 Reading Clinic: Diagnosis (2)**

Corrective reading procedures will be implemented based on standardized and informal assessment of reading difficulties. Teaching effectiveness will be monitored by daily evaluation of results. Parents, administration, and allied professionals will be consulted as appropriate.

**SpEd 595 Special Problems (3)**

Study of the effect that characteristics common to mildly handicapped learners have on the development of reading skills.

**Ed. 597 Graduate Project (3) and elective (3)**

or

**Ed. 599 Thesis (6)****Master of Science—School Psychology**

In addition to the general requirements for admission, the applicant must submit an undergraduate grade point average of at least 3.0 (B), preparation to include at least 12 quarter hours of course work in psychology, and a combined score of 1,000 on the Verbal and Quantitative portions of the Graduate Record Examination (GRE). The GRE scores may be no more than five years old. A letter of intent specifying career goals and research interests, and three letters of recommendation must be provided. Students are admitted only on a full-time basis with attendance beginning in the fall quarter. Limited enrollment.

The program must be completed under Plan B with a specialty paper being required. Written comprehensive examinations and oral examinations in defense of the specialty paper are required.

**Course Requirements**

**Group I—Research Component** (nine hours minimum)  
Ed 502 (3), 503 (3), Psy 597 (3) required.

**Group II—School Psychology Major** (24 hours minimum)

Psy 500 (3), 501 (2), 502 (4), 503 (3), 504 (3), 505 (2), 506 (5), 509 (2) required.

**Group III—Related Areas** (15 hours minimum)

Psychological foundations (personality, abnormal, learning, development), or curriculum and education foundations, and special education.

**Psy 401 Child Psychology (4) (F)**

Study of the developing child from the prenatal period to puberty with emphasis on emotional, social, and cognitive factors in growth and development.  
Prerequisite: Consent of instructor.

**Psy 401(g) (3) (F)**

Same as above; for graduate credit only.

**Psy 402(g) Adolescent Psychology (4) (W)**

An introduction to the psychological study of adolescent physical, intellectual, social, emotional, and sexual development. Prerequisite: Consent of instructor.

**Psy 403(g) Adulthood/Aging (4) (S)**

Discussion of some of the major theoretical approaches and current issues in human development from young adulthood through old age and death. Prerequisite: Consent of instructor.

**Psy 417(g) Child Psychopathology (3-4) (S)**

The nature, origins and consequences of behavioral disturbances in childhood. Topics include theoretical perspectives, assessment and classification, treatment and prevention. Prerequisite: 12 psychology credits, including child psychology, and upper-division status.

**Psy 442(g) Learning (4) (F)**

Laboratory course emphasizing the theories and principles of classical conditioning, operant conditioning, verbal learning, and memory. Laboratory included. Prerequisite: Psy 232.

**Psy 444(g)\*Motivation and Emotion (4) (F)**

An empirical and theoretical analysis of human and animal research in these areas. Experience and competence in research techniques are required. Laboratory required. Prerequisite: Psy 232.

**Psy 445(g) Physiological Psychology (4) (W)**

Study of the biological processes that underlie control and execution of behavior; demonstrated research competencies are required. Laboratory included. Prerequisite: Psy 232.

**Psy 446(g) \*Perception (4) (S)**

Information-processing approach to sensory and perceptual processes; emphasis on vision and audition. Laboratory included. Prerequisite: Psy 232.

**Psy 447(g) \*Comparative Psychology (4) (S)**

Ethological approach to animal behavior; intra- and inter-species comparisons of innate and learned behavioral patterns. Laboratory included. Prerequisite: Psy 232.

**Psy 448(g) Cognition (4) (W)**

Theoretical and experimental study of human cognitive processes, such as concept formation, problem solving, and creativity. Laboratory included. Prerequisite: Psy 232.

**Psy 461(g) Theories of Personality (4) (F)**

A survey of the major theories used in the study of personality assessment and research. Prerequisite: 12 credits of psychology or the consent of instructor.

**Psy 463(g) Abnormal Psychology (4) (W)**

Descriptive and explanatory models are detailed in relation to their relevance to behavior pathology and the prevention of abnormal behavior. Prerequisite: 12 credits of psychology or the consent of instructor.

**Psy 465(g) Clinical Psychology (4) (S)**

Introduction to techniques of psychotherapy, crisis intervention, interviewing, clinical assessment and prevention of disorder. Emphasis on psychotherapy as a process of understanding. Prerequisite: 12 credits of psychology or consent of instructor.

**Psy 467(g) Chemical Dependencies (4) (S)**

A study of the practical, legal and ethical problems in dealing effectively with chemical dependencies. Development and application of skills related to diagnosis, intervention and referral is stressed. Prerequisite: 12 credits of psychology or equivalent and consent of instructor. Psy 217 recommended.

**Psy 470(g) History and Systems of Psychology (4) (F)**

An overview of the development of psychology from associationism to the present. Schools, fields, and areas of psychology are emphasized. Prerequisite: Consent of instructor.

**Psy 481(g) Seminar in Psychology (4) (FS)**

Topics of special interest. For majors, and advanced students in other areas. Course may be repeated. Prerequisite: Consent of instructor.

**Psy 491(g) Independent Study (1-4)**

Individual topical studies of special interest. Course may be repeated. Prerequisite: Consent of instructor.

**Psy 495(g)\*Field Work in Psychology (2-4)**

Supervised field work, experience in social service agencies, or research settings. Prerequisite: Consent of instructor. Students must have obtained prior approval from the instructor for all projects they wish to take for credit.

**Psy 500 Observation & Interview Techniques (3) (W)**

Development of skills in observation, interviewing, obtaining case histories, and assessing adaptive behaviors. Prerequisite: Consent of instructor, concurrent enrollment in Psy 505.

**Psy 501 Introduction to School Psychological Services (2) (F)**

An introduction to the field of school psychology. Discussion of the historical and current factors influencing the development of the profession, the roles of the school psychologist, and group processes underlying team decision making. Prerequisite: Consent of instructor.

**Psy 502 Theory and Practice of Psychoeducational Measurement (4) (F)**

Theory and statistical principles involved in test construction and interpretation. Various types of instruments are surveyed with particular attention given to the administration of educational tests. Prerequisite: Consent of instructor.

**Psy 503 Individual Psychological Testing (3) (W)**

Theories of intelligence and administration and interpretation of commonly used psychodiagnostic evaluation techniques as they apply to school-age populations. Prerequisite: Psy 502, consent of instructor, and concurrent enrollment in Psy 505.

**Psy 504 Psychological Test Interpretation and Report Writing (3) (S)**

Advanced individual appraisal includes a case study

approach to assessment. Emphasis is on the interpretation and integration of test results.

Prerequisite: Psy 503, consent of instructor, and concurrent enrollment in Psy 506.

**Psy 505 Practicum in School Psychological Services I (2) (W)**

Supervised school psychology experience in the preschool, elementary school, or secondary school setting. A total of 100 clock hours. Prerequisite: Consent of instructor, and concurrent enrollment in Psy 500 and 503.

**Psy 506 Practicum in School Psychological Services II (1-5) (S)**

Supervised school psychology experience in schools with time divided among preschool, elementary, and secondary levels. 250 clock hours required. Prerequisite: Psy 505 and consent of instructor. May be repeated to a maximum of 5 credits.

**Psy 509 Issues in the Practice of School Psychology (2) (S)**

Seminar to discuss relevant issues in the interpretation and application of knowledge of psychological information in schools, including consideration of ethical issues, legal factors impacting on the practice of school psychology, evaluation of self-performance, and obtaining professional supervision. Prerequisite: Psy 501, consent of instructor, and concurrent enrollment in Psy 506.1L

**Psy 550 Advanced Psychological Testing: Personality (3) (F)**

Study of the theoretical foundations, development, administration and interpretation of major tests of personality and abnormal psychology. This course is open to graduate students in school psychology who have completed first-year training including course work in personality and abnormal psychology. Prerequisite: Advanced standing in school psychology program, consent of instructor and concurrent enrollment in Psy 560.

**Psy 552 Individual and Group Intervention Techniques (3) (W)**

An advanced school psychology seminar in which group processes will be analyzed and a variety of strategies for working with individuals and groups of children will be discussed. Prerequisites: Advanced standing in school psychology program, concurrent enrollment in Psy 562 and consent of instructor.

**Psy 554 Systems Intervention (3) (S)**

A seminar for advanced graduate students in school psychology. Systems level and organizational interventions will be the focus of study. Topics include organizational development, primary intervention, child advocacy, consultation, and intervention for classes of children. Prerequisites: Advanced standing in the school psychology program, concurrent enrollment in Psy 564, and consent of instructor.

**Psy 560, 562, 564 Internship in School Psychology I-II-III (2-4 each) (F-W-S)**

Supervised field experience as a school psychologist intern in a school district for from 200-400 hours per quarter. Concurrent enrollment in Psy 550, 552, 554 required. A project is required in each internship segment in conjunction with the advanced seminars. Prerequisite: Advanced standing in the school psychology program and consent of instructor.

**Psy 572 Practicum in School-Related Clinical Services (2-4)**

Supervised school psychology experience in a setting providing clinical psychological services. 200-400 clock hours will be required. Prerequisite: Advanced standing in the school psychology program and consent of instructor.

**Psy 575 Assessment of the Infant and Young Child (3) (SS)**

Intended to train practicing school psychologists to administer various developmental scales and explore various theories relevant to child development. Prerequisite: Advanced standing in the school psychology program and consent of instructor.

**Psy 581 Readings in Psychology (2-4)**

Directed readings on selected topics. May be repeated to a maximum of four credits. Prerequisite: General psychology or consent of the instructor.

**Psy 597 Specialty Paper in School Psychology (3)**

An independent library research project which reviews in depth the professional literature in an approved area of school psychology. Prerequisites: Completion of 24 hours toward M.S. degree including at least one course in statistics or research methods.

**Psy 599 Thesis in Psychology (1-6)**

Research and writing of the specialist's thesis. Registration only after consultation with major advisor.

\* These courses are not part of the graduate program

**Master of Science—Special Education**

The Master of Science in Special Education is available to students in several areas: Early Childhood-Special Education, Emotional Behavior Disorders, Learning Disabilities, Educable Mental Retardation, and Trainable/Severely Handicapped. The exact course of study is developed with the student and advisor. A Master's degree in these areas is not the same as a teaching license.

Applicants must have completed an appropriate undergraduate major with a cumulative GPA of 3.0. Admission to some of the areas includes the requirement of the Miller Analogies Test (MAT).

**Course Requirements**

**Group I—Research Component (minimum 9 credits)**

Ed 502 (3), 503 or SpEd 505 (3), and Ed 599 (6) for Plan A or 597 (3) for Plan B required.

**Ed 502 Statistics in Educational Research (3) (W)**

Basic theory, techniques for using descriptive and inferential statistics, and application in educational research designs.

**Ed 503 Methods of Research (3) (F)**

Methodology of design of research studies; preparation of effective technical reports. Ed 502 recommended.

**SpEd 505 Single Subject and Small Group Research Designs (3) (S)**

Introduction to research on single subjects and small groups, with application to problems in education and related areas. Prerequisite: Ed 502 or equivalent. (Same as Ed 505).

**Group II—Special Education Major (minimum 24 credits)**

The program will include a practicum or internship of 3-9 credits, and may include independent studies, in addition to Thesis, to a maximum of 6 credits.

**Group III—Electives (minimum 6 credits)**

Courses selected from psychology, sociology, education, biology, anthropology or other appropriate areas.

**Special Education Courses**

**SpEd 401(g) Ecological Assessment (3) (F)**

Transactional-ecological approach to observation and screening of children in the natural context of classrooms. Prerequisite: Consent of instructor.

**SpEd 411(g) Educating the Mildly Handicapped (4) (Fw)**

An introduction to definition, assessment, characteristics, and education programs for learners with mild and moderate mental retardation, learning disabilities, or behavioral disabilities. Prerequisites: SpEd 218 or SpEd 420.

**SpEd 412(g) Educating the Severely Handicapped (4) (Fs)**

An introduction to the definitions, assessment, characteristics, and educational/training programming for learners who are severe/profound and/or multiple handicaps. Prerequisites: SpEd 220, Professional core or consent of instructor.

**SpEd 413(g) Instructional Strategies Mildly Handicapped: Elementary (4) (F)**

Classroom techniques for teaching elementary level mildly-handicapped learners. Topics include classroom structures, adapting of instruction, curriculum, assessment and various content area learning problems. Prerequisites: SpEd 411.

**SpEd 414(g) Instructional Strategies Mildly Handicapped: Secondary (4) (WS)**

Classroom techniques for teaching secondary level mildly-handicapped students. Topics include alternative educational resources, methods and materials,

classroom adaptations, and techniques of basic skills instruction. Prerequisite: SpEd 411.

**SpEd 415(g) Career Education for the Mildly Handicapped (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)**

Definition, identification, and current school program for the mentally-superior or specially-talented child.

**SpEd 422(g) Curriculum and Methods for the Gifted (3)**

Exploration of ways to construct a curriculum suitable for the education of gifted students at elementary and secondary levels. Prerequisite: SpEd 421(g)

**SpEd 423(g) Theory and Practice in Early Childhood Special Education (3)**

Examination of the research related to early intervention and overview of program models for services to young children with handicaps.

Prerequisites: SpEd 220, 411(g), 412(g) or consent of instructor.

**Ed 424(g) Infant/Toddler Programs and Practices (4)**

An orientation to planning and implementing programs for children ages zero to three years and their families. Guidelines for supporting development and for providing quality physical care will be examined. Includes field experience in an infant program.

Prerequisites: Ed 370, 371, 375 or consent of instructor.

**SpEd 424(g) Assessment Strategies with Young Handicapped Children (4) (F)**

Examines assessment instruments and procedures with infants, toddlers, preschoolers with handicaps.

Approaches to identification, screening, assessment selection and programming are explored. Prerequisites: SpEd 401(g) or SpEd 423(g) or consent of instructor.

**SpEd 425(g) Teaching Young Children with Special Needs (4) (W)**

Provides the day care or kindergarten teacher with skills in assessment, child study procedures and curricular adaptations for young children with handicaps in integrated settings. Prerequisites: SpEd 220 or consent of instructor.

**SpEd 426(g) Instructional Strategies with Handicapped Infants & Toddlers (4) (W)**

Investigation of goals and decision-making process to develop objectives and methods to facilitate development of handicapped children from birth to three years. Prerequisites: SpEd 411(g), 412(g), 423(g) & 424(g) or consent of instructor.

**SpEd 427(g) Instructional Strategies with Handicapped Preschoolers (4) (W)**

Investigation of methods to design and implement individual and group instructional and behavioral programs for children with handicaps from three to six

years. Prerequisites: SpEd 411, 412, 423, 424 or consent of instructor.

**SpEd 428(g) Family Ecology of the Handicapped (3) (S)**

Inquiry into historical and ecological/transactional perspective, and functions of the family with special-needs child; school/family relationships. Prerequisites: SpEd 420(g) or consent of instructor.

**SpEd 431(g) Teaching Occupational Education to the Mentally Retarded (3)**

**SpEd 435(g) Topics in Mental Retardation (3)**

Advanced treatment of selected topics on research and practice in mental retardation. Prerequisite: SpEd 411(g).

**SpEd 436(g) Problems in Special Education (1-3)**

Directed field placement, reading, or research in special education. Prerequisite: SpEd 411(g). May be repeated up to six credits.

**SpEd 442(g) Creative Activities for Exceptional Children (3) (W)**

Creative activities for exceptional children; practical experiences in the areas of art, crafts, music, drama, and their interrelationships. Prerequisites: SpEd 220 (g)

**SpEd 443(g) Industrial Arts for Elementary or Special Education Teachers (4)**

**SpEd 444(g) Language Problems in Special Populations (3)**

Nature, etiology and management of language problems among learning disabled, educably mentally handicapped, and behaviorally disturbed children and youth. Prerequisites: SLHS 204 Language Development. (Same as SLHS 444).

**SpEd 445(g) Remedial and Corrective Reading (3)**

Presentation of special methods and materials in teaching reading to disabled readers at the primary, intermediate, and secondary level. Prerequisites: Ed 345 or teaching experience. (Same as Ed 445(g))

**SpEd 446(g) Remedial and Corrective Reading Clinic (2)**

Supervised practice in remediating reading-disabled children at the primary, intermediate, and secondary level. Prerequisites: Ed 345 or teaching experience, SpEd 445. (Same as Ed 446(g))

**SpEd 456(g) Curriculum Development and Teaching the Trainable Mentally Retarded (3) (F)**

Investigation of educational goals, objectives, methods and techniques, organizing and planning curriculum units and plans. Prerequisite: SpEd 412

**SpEd 457(g) Personal, Social and Vocational Education for the TMR (3) (F)**

Personal, social, and vocational adjustment needs and problems are studied. Emphasis placed upon work activity, sheltered workshops, or competitive employment.

**SpEd 458(g) Recreative Skills for the Severely Handicapped (3) (W)**

Motor development, physical education, recreation and leisure activity skills for handicapped children.

**SpEd 459(g) Language Development for the Severely Handicapped (3) (W)**

Methods, materials, and alternative communication systems for language development in the severely handicapped.

**SpEd 460(g) Education of the Emotionally Disturbed Child (3)**

Causes of and classroom procedures with the emotionally disturbed child. Prerequisite: SpEd 220(g) or consent of instructor.

**SpEd 462(g) Topics in Learning Disabilities (3)**

Advanced treatment of selected topics on research and practice in learning disabilities. Prerequisites: SpEd 411(g) and consent of instructor.

**SpEd 463(g) Measurement and Assessment in Special Education (3)**

An introduction to assessment in special education including statistics, measurements and the use of tests. Prerequisites: SpEd 220.

**SpEd 465(g) Special Education Reading (3)**

Presents methods, materials useful in teaching reading to children with behavior problems, mental retardation, neurological, visual, or auditory impairment. Prerequisites: Ed 345, SpEd 411(g).

**SpEd 466(g) Special Education Reading Clinic (2)**

Supervised practice in diagnosis and remediation of reading problems of handicapped children. Prerequisites: Ed 345, SpEd 411(g), SpEd 465(g).

**SpEd 467(g) Practicum: I (3-6) (FWS)**

Prerequisites: SpEd 220, 445, 446, 411, 463, and 471 with 3.0 average, consent of instructor.

**SpEd 468(g) Practicum: II (3-6) (WS)**

Prerequisites: SpEd 467 with grade of B or A and consent of instructor.

**SpEd 470(g) Guidance of the Handicapped (3) (S)**

Principles and techniques of guiding handicapped children and youth to personal, social and occupational adequacy. Includes field projects. Prerequisites: SpEd 411(g) or SpEd 412(g) or consent of instructor.

**SpEd 471(g) Behavioral and Environmental Management (3) (FW)**

Analysis and programming of behavior, environmental variables as they relate to handicapped children in the classroom.

**SpEd 472(g) Educational Diagnosis and Programming (3) (WS)**

Principles and practices of diagnostic-prescriptive programming for handicapped children. Prerequisite: SpEd 220(g).

**SpEd 473(g) Behavior Problems in Children (3) (S)**

Descriptive etiology of behavior deviancy and the methods and techniques used to alleviate problems resulting from deviancy.

**SpEd 474(g) Management of Severe Maladaptive (3)**

Advanced instruction in definition, identification, measurement, and programmatic remediation of severe maladaptive behaviors in severely handicapped population infant through adulthood. Pre-requisites: SpEd 471g and SpEd 412g or SpEd 473g or equivalent coursework approved by the instructor.

**SpEd 475(g) Teacher as a Resource Consultant (3) (S)**

Theory and practice for special education resource teacher including direct services, consultation with regular classroom teachers and working with parents of handicapped learners. Prerequisites: SpEd 220, or consent of instructor.

**SpEd 477(g) Seminar in Early Childhood Education of the Handicapped (3)**

Exploration of current childhood education of handicapped topics, legislation, political, funding, assessment, instruction, and parent education models. Prerequisite: Consent of instructor.

**SpEd 478(g) Methods of teaching Students with Behavioral Disorders (3) (W)**

Non-behavioristic classroom techniques for educating emotionally disturbed/behavioral disordered students. Prerequisites: SpEd 460(g) or consent of instructor.

**SpEd 479(g) Children & Adolescents in Crisis (3)**

Overview of life crises affecting children's behavior with special emphasis on disturbed adolescents. Prerequisites: SpEd 460(g) or consent of instructor.

**SpEd 545 Diagnosis and Correction of Reading Difficulties (3)**

Advanced study of reading difficulties. Prerequisites: SpEd 445(g).

**SpEd 546 Reading Clinic: Diagnosis (2)**

Individual case studies or supervision of individual case studies. Prerequisite: SpEd 545.

**SpEd 562 Seminar: Special Education (3)**

Seminar in selected SpEd topics. Prerequisite: Consent of instructor.

**SpEd 564 Theory and Process of Consultation**

Same as Ed 564.

**SpEd 565 Program Development/Administration (3)**

Selected topics in SpEd program development. Prerequisite: Consent of instructor.

**SpEd 567 Practicum I (3-9) (FWS)**

Prerequisites: 3.0 in major and consent of instructor.

**SpEd 568 Practicum II: (3-9) (WS)**

Prerequisites: SpEd 567 with grade of B or A and consent of instructor.



**SpEd 569 Advanced Practicum in Special Education (3)**

Advanced practicum experience in indicated area of special education, includes assessment, formulation of treatment program, and supervision of others.

Prerequisite: Graduate standing, SpEd 468 or 568, and consent of instructor.

**SpEd 572 Educational Diagnosis and Programming (3)**

Critical analysis of selected applications of behavioral science to education of handicapped children and youth, including implications for use in education.

Prerequisites: Graduate standing, SpEd 411/463 and consent of instructor.

**SpEd 575 Administration of Special Education (3)**

**SpEd 590 Seminar: Current Trends in Special Education (1-3)**

Exploration of current practices, relevant literature, professional practices, legal issues, research, and funding patterns. Prerequisite: Graduate status.

**SpEd 592 Administration and Supervision of Reading Instruction (3)**

Problems in the administration and supervision of remedial reading programs. Prerequisites: Six credits of remedial reading courses.

**SpEd 595 Special Problems (1-6)**

Advanced work in a special area. Prerequisite: Consent of graduate advisor.

**SpEd 597 Individual Study (3) (Fws)**

Plan B project in special education. Prerequisite: Consent of graduate advisor.

**SpEd 599 Thesis (6) (Fws)**

Thesis in special education. Prerequisite: Consent of graduate advisor.

**Master of Science—Speech/Language Pathology and Audiology**

The Speech/Language/Hearing department offers a program leading to the Master of Science Degree in Speech/Language Pathology and Audiology. An undergraduate major in Speech/Language/Hearing Sciences is recommended but not required for admission to the graduate program. The applicant who has limited or no background in this area of study will be expected to remove deficiencies by taking basic undergraduate prerequisites. Completing the minimum degree requirements of 55 credits requires more than one year of full-time study.

Candidates for the Master's degree must fulfill academic and clinical requirements established by the American Speech-Language-Hearing Association (ASHA) for the Certificate of Clinical Competence. This level of training is regarded as the minimum entry-level requirement for speech-language pathologists. It includes a minimum of 150 clock hours

of clinical practicum at the graduate level. No more than 15 credit hours of clinical practicum and internship can be applied toward the Master's degree.

In addition to graduate course work in Speech/Language Pathology and Audiology, candidates may select courses in such related areas of study as counseling, linguistics, psychology, special education, and speech. Work in professional education is not required but may be included with electives if such course work was not taken at the undergraduate level.

**Course Requirements**

For the M.S. in SLPA, the student is to complete a *minimum* of 55 graduate credits, approved by the department and distributed according to the following schema.

Group I—*Research* (six or nine credits)

Plan A: SLPA 501 (3) and SLPA 599 (6)

Plan B: SLPA 501 (3) and SLPA 597 (3)

Group II—*Major* (minimum of 36 credits)

A minimum of 21 credits of departmentally approved course work and from 12 to 15 credits of clinical practicum and internship

Group III—*Electives* (up to 10 credits)

Courses selected from outside of the department and complementary to professional goals

(A maximum of two workshop credits may be counted toward the major, providing the workshops are offered for graduate credit by Moorhead State University.)

**Speech/Language Pathology and Audiology Courses**

**SLHS 401(g) Psycholinguistics (3) (W)**

Nature, structure, and function of language with special emphasis on comprehension and production processes.

**SLHS 422(g) Organic Speech Disorders in Children (3) (W)**

Nature, etiology, and management of cleft lip/palate in children.

**SLHS 423(g) Organic Speech Disorders in Adults (4) (S)**

Etiology, diagnosis, evaluation, and treatment of brain damaged, communicatively impaired adults (including aphasia, agnosias, apraxias); opportunities for observation of evaluation and treatment of adult brain-injured individuals.

**SLHS 424 (g) Fluency Disorders (4) (F)**

A study of the nature and management of fluency disorders. Prerequisite: SLHS 202 or consent of instructor.

**SLHS 444(g) Language Problems in Special Populations (3) (W)**

Nature, etiology and management of language problems among learning disabled, educably mentally handicapped, and behaviorally disturbed children and youth. Prerequisite: SLHS 204 (Cross-listed as SpEd 444(g); not applicable toward SLPA graduate degree.)

**SLHS 447(g) Diagnostic and Appraisal Procedures (4) (W)**

The evaluation and use of diagnostic tools; participation in evaluations and preparation of clinical reports. Prerequisites: Senior standing and consent of the instructor.

**SLHS 448(g) Program Management in Speech-Language Pathology (3)**

The organization, management and administration of speech/language pathology programs in various clinical settings such as public schools, hospitals, and clinics. Prerequisite: Consent of instructor.

**SLHS 453(g) General Semantics (3)**

Analysis of the limitations of language and of the effects of verbal habits; application of general semantics principles and techniques.

**SLHS 491(g) Independent Study in SLHS (1-3) (FWS)**

Selected readings or a guided independent research project in some aspect of communication disorders. May be repeated for up to six credits. Prerequisite: Consent of academic advisor and project supervisor.

**SLHS 499(g) Topical Workshop (1-4)**

**SLPA 501 Research in Speech-Language Pathology and Audiology (3) (F)**

Basic methodology of descriptive, experimental and single-case designs for research in speech-language pathology and audiology.

**SLPA 509 Seminar in Scientific Topics (3)**

Examination of a selected aspect of the scientific bases of communication.

**SLPA 521 Seminar in Articulation (3) (F)**

A critical review of research related to the nature, assessment and treatment of articulatory disorders.

**SLPA 522 Seminar in Child Language (3)**

Selected topics in the area of language development and disorders in children with emphasis on specific scientific inquiry. Prerequisite: SLHS 401(g).

**SLPA 523 Seminar in Voice (3) (W)**

Advanced study of the etiology, evaluation, and management of voice problems.

**SLPA 524 Seminar in Fluency (3) (S)**

Advanced study of the nature, etiology, and treatment of fluency disorders.

**SLPA 541 Language Assessment and Intervention (3) (FS)**

Assessment and intervention of cognitive, linguistic, and social deficits in children's language with special emphasis on informal assessment procedures. Prerequisite: SLHS 401(g).

**SLPA 542 Augmentative and Alternative Communication (3) (W)**

Advanced appraisal techniques for speech, language, and related areas as they apply to determining a need

for augmentative communication systems; additional emphasis on selecting appropriate aids and initial programming.

**SLPA 543 Seminar in Supervision (3)**

Review of literature, techniques and systems specific to supervision in speech-language pathology.

**SLPA 544 Supervision Practicum (1)**

Supervised practicum experience in supervision; includes planning, observing, and analyzing the clinical work of student clinicians. Prerequisite: SLPA 543.

**SLPA 546 Clinical Practicum: Speech-Language (1) (FWS)**

Supervised clinical experience with children or adults who present speech or language problems; usually taken in blocks of 3 credits. Should be repeated for a total of 9 credits. Prerequisites: 9 credits of SLHS 446, graduate standing, and consent of the academic advisor.

**SLPA 548 Internship (6) (FWS)**

Supervised experience in a public or private agency; goals, nature of experience, and criteria for evaluation established beforehand by student, departmental advisor, and a representative of the agency. Prerequisite: Departmental approval of proposal.

**SLPA 571 Seminar in Rehabilitation Audiology (3) (S)**

A review of the major concepts that influence the delivery and shape consequences of rehabilitative services to the hearing impaired.

**SLPA 576 Clinical Practicum: Audiology (1) (FWS)**

Supervised clinical experience in evaluation or management of children or adults with impaired hearing; may be repeated. Prerequisites: Graduate standing and consent of the academic advisor.

**SLPA 591 Topical Seminar in Speech, Language Pathology and Audiology (3)**

The examination of the literature on a selected topic of current interest.

**SLPA 593 Readings in Speech, Language Pathology and Audiology (1-3) (FWS)**

Selected readings in speech pathology, language pathology, audiology, or speech and hearing science under the direction and supervision of members of the department. Prerequisite: Approval of departmental advisor and the project supervisor.

**SLPA 595 Seminar in Professional Issues (3) (WS)**

A consideration of current topics and issues pertaining to the profession of speech-language pathology and audiology.

**SLPA 597 Research Project (1-3) (FS)**

Registration only after consultation with major advisor.

**SLPA 599 Thesis (1-6) (Fws)**

Registration only after consultation with major advisor.

## Specialist in School Psychology

The Specialist degree program is a continuation of Master's-level training in School Psychology. The curriculum of both programs is designed to meet requirements for School Psychologist licensure in the State of Minnesota.

Students who have completed, or are nearing completion of, the M.S. in School Psychology from MSU will be considered for admission to the Specialist degree program upon submission of a completed Application for Admission to the Graduate Studies Office and a letter of interest and intent to the Director of the School Psychology Program. Under this arrangement, all requirements for the M.S. degree must be completed before 15 quarter hours of credit toward the Specialist degree are earned. Applicants from other universities must submit evidence of satisfactory completion of a substantially equivalent Master's degree. In addition, all of the requirements for admission to the Master's degree program, as described above, must be met.

The Specialist program must be completed under Plan A, with a research-oriented thesis being required. Written comprehensive examinations and an oral examination in defense of the thesis are required.

### Course Requirements

**Group I**—Research Component (minimum six hours)  
Psy 599 (6) required

**Group II**—School Psychology Major (minimum 24 hours)  
Psy 550 (3), Psy 552 (3), Psy 554 (3), Psy 560 (4), Psy 562 (4), Psy 564 (4), Psy 575 (3)

**Group III**—Related Areas (minimum 12 hours)  
Consultation, counseling, and early childhood issues

## Educational Administration Programs

Moorhead State University cooperates in programs leading to the Master of Science and Specialist in Education degrees in the field of Educational Administration. Both degrees provide 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.

## Departmental Graduate Courses

These courses are open to graduate special students and graduate students seeking advanced degrees who may wish to use them to meet certain degree requirements or as electives.

### Accounting Department

#### Accounting Courses

#### Acct 420(g) Introduction to International Accounting (4) (S)

Focus on current applied managerial and financial methodologies in the international environment. Theoretical, philosophical and anthropological arguments will be presented and discussed concerning the world-wide diversity of accounting policies. Prerequisite: Acct 230.

#### Acct 430(g) Consolidations (4) (F)

Accounting for mergers, consolidations, and intercorporate investments. Emphasis on consolidated financial statements. Prerequisite: Acct 332 or consent of instructor.

#### Acct 435(g) Fund and Advanced Topics (4) (FS)

Fund accounting systems used by nonprofit entities. Various advanced topics as appropriate. Prerequisite: Acct 332 or consent of instructor.

#### Acct 441(g) Individual Income Taxes (4) (FWS)

Individual income tax planning; fundamentals of federal and state tax return preparation. Prerequisite: Acct 230.

#### Acct 443(g) Taxation of Corporations and Partnerships (4) (WS)

Tax planning and return preparation for corporations and partnerships; tax research method. Prerequisite: Acct 441.

#### Acct 446(g) Estate, Gift and Trust Taxation (4) (W)

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of estate planning. Prerequisite: Acct 230.

#### Acct 460(g)-461(g) Auditing I-II (4-4) (FW-WS)

460: Orientation to auditing. Purpose, ethics, legal liability, internal control, EDP, evidence and planning. Prerequisite: Acct 332 and Acct 370 or consent of the instructor. 461: Statistical sampling, audit objectives and procedures and report writing. Must be taken in sequence.

#### Acct 465(g) Internal Auditing (4) (W)

The role of the internal auditor; auditing procedures and practices; operational audits; effective reporting. Prerequisite: Acct 460 and Mgmt 360.

#### Acct 480(g) Accounting Theory (4) (S)

Intensive study of current authoritative pronouncements with emphasis on prescribed procedures and suggested alternatives. Prerequisites: Acct 332 and 351 or consent of instructor.

**Acct 498(g) Problems in Accounting (I-4) (FWS)**  
Special problems not in the regular curriculum. May be taken more than once since content will vary.  
Prerequisite: Consent of instructor.

## **Biology Department**

### **Biology Courses**

**Biol 301(g) Vertebrate Embryology (4) (F)**  
A study of principles in developmental biology and of the early developmental anatomy of vertebrates, with lab. Prerequisite: Biol 113.

**Biol 302(g) Histology (4) (S)**  
Microscopic characteristics of human tissues and organs, structural-functional correlation, histogenesis, with lab. Prerequisite: Biol 113.

**Biol 343(g) Microtechnique (4) (W)**  
Tissue preparation for histological, histochemical, and fluorescent studies, including whole organism preservation, with lab. Prerequisite: Biol 113 (Chem 113 recommended) or consent of instructor.

**Biol 350(g) Microbiology (4) (F)**  
Morphology, nutrition, genetics, and physiology of bacteria and other microorganisms, as well as introduction to medical applications, with lab. Prerequisites: one year each of chemistry and biology or consent of instructor; Biol 341 recommended.

**Biol 355(g) Wildlife Ecology (4) (F)**  
The application of ecological principles to the management of wildlife populations. Population dynamics and field techniques are stressed, with labs. Prerequisite: Biol 345.

**Biol 410(g) Parasitology (4) (S)**  
Principles and importance of parasitism as exemplified by selected parasitic protozoa, helminths, and arthropods, with lab. Prerequisites: Biol 112 and 113.

**Biol 417 Ornithology (4) (S89)**  
The basic features of avian anatomy, physiology, and behavior combined with field and laboratory observations of regional birds. Prerequisite: Biol 113.

**Biol 423(g) Plant Anatomy (4) (on demand)**  
Structure of the seed plants with emphasis on the development of vegetative and reproductive organs of the angiosperms, with lab. Prerequisite: Biol 123.

**Biol 424(g) Plant Physiology (4) (on demand)**  
A survey of plant physiology with emphasis on water relations, mineral nutrition, translocation, respiration, photosynthesis, and plant growth, with lab. Prerequisite: Biol 123 and Chem 113 or consent of instructor.

**Biol 433(g) Plant Morphology: The Lower Forms (4) (on demand)**  
The structure, development, life cycles, and relationships of algae, fungi, and bryophytes, with lab. Prerequisite: Biol 122 or consent of instructor.

**Biol 434(g) Plant Morphology: The Vascular Plants (4) (on demand)**  
The structure, development, evolution, life cycles, and relationships of the vascular plants, with lab. Prerequisite: Biol 122 and 123 or consent of instructor.

**Biol 445(g) Limnology (4)**  
Aquatic ecology; analysis of the physical, chemical and biotic factors that affect life in lakes, ponds, streams. With lab and field work. Prerequisites: 30 quarter hours of college biology, including Biol 345, and one year of college chemistry.

**Biol 449(g) Advanced Cell Biology (4) (W)**  
Cell structure in relation to function, reproduction, and development. Prerequisites: Biol 341, Chem 113.

**Biol 450(g) Cell Physiology (4) (on demand)**  
The relationship between cell structure and function with emphasis on cellular metabolism and its regulation, with lab. Prerequisites: Biol 113 or 123 and Chem 238 or consent of instructor.

**Biol 470(g) Immunology (3) (W)**  
Introduction to antibody-mediated immunity and cell-mediated immunity. Biol 471, Immunology Laboratory may be taken concurrently. Prerequisites: Biol 350 and one year of chemistry or consent of instructor; Biol 341 recommended.

**Biol 471(g) Immunology Laboratory (1) (W)**  
Selected methods in antibody-antigen assays and cellular immunology. Prerequisites: Biol 470 or concurrent registration.

**Biol 475(g) Pathogenic Microbiology (4) (S)**  
A survey of the major pathogens causing infectious disease in humans. Emphasis on bacterial pathogens including their cultivation, identification, and pathogenicity, with lab. Prerequisites: Biol 350 and 470; Biol 341 recommended.

**Biol 481-482-483(g) Biology Seminar I-II-III (1 each) (FWS)**  
Oral reports by students and staff based on critical evaluation of scientific literature, and/or independent research. Junior or Senior standing in major.

## **Business Administration Department**

### **Finance Courses**

**Finc 406(g) Small Business Management Consulting (2) (FWS)**  
Practicum in providing management assistance to small business. To be taken two quarters consecutively for a total of four credits. Senior or graduate standing and permission of the instructor required. Offered only on a pass/fail basis.

**Finc 425(g) International Trade and Finance (4)**  
Same as Econ 425.  
Theories and institutions of trade and finance are examined in traditional and contemporary contexts. Prerequisite: 304 or 320.



**Finc 442(g) Finance Seminar (4) (WS)**

Selected finance topics of contemporary interest. May be repeated with different topics. Prerequisite: Consent of instructor.

**Finc 450(g) International Financial Management (4) (W)**

Traditional areas of corporate finance will be explored including working capital, capital budgeting, cost of capital and financial structure evaluation and control of operations in a multinational setting. Prerequisites: Econ 206, Finc 340.

**Finc 456(g) Principles of Investment (4) (FS)**

Studies financial assets, brokerage firms and the security industry, and the mechanics and strategies of buying and selling various assets for investment purposes. Prerequisite: Finc 340.

**Finc 457(g) Portfolio Analysis (4) (W)**

Analysis of techniques used in combining a portfolio of securities. Examines various classes of securities and investments meeting a proper balance of investor's requirements. Prerequisite: Finc 456.

**Finc 458 Financial Decision Making (4) (FS)**

Long and short term aspects of finance with emphasis placed upon analysis and decision making. Case approach. Prerequisite: Finc 441 or consent of instructor.

**Finc 498(g) Problems in Finance (1-4)**

Individual inquiry into an aspect of finance not covered in the regular curriculum. Prerequisite: Consent of instructor.

**Finc 598 Research in Finance (3)**

Prerequisite: graduate standing

**Management Courses**

**Mgmt 405(g) Small Business Management (4) (FWS)**

Analysis of problems confronting the manager of a small retail, wholesale, or manufacturing enterprise. Prerequisite: Mgmt 360.

**Mgmt 406(g) Small Business Management Consulting (2) (FWS)**

Practicum in providing management assistance to small business. To be taken two quarters consecutively for a total of four credits. Senior or graduate standing and permission of the instructor required. Offered only on a pass/fail basis.

**Mgmt 415(g) Industrial Organization and Public Policy (4)**

Same as Econ. 415. Market structure, market conduct, and economic performance.

Public policy regarding the attainment of workable competition in industry. Prerequisite: Econ 315.

**Mgmt 416(g) Labor Economics (4) (W)**

Same as Econ 416. Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation.

Prerequisite: Econ 206.

**Mgmt 421(g) Decision Analysis (4) (FS)**

Structuring and analyzing of decisions under conditions of risk and uncertainty. Prerequisites: Mgmt 360, Math 275.

**Mgmt 430(g) Managerial Economics (4) (FWS)**

Integration of quantitative methods and economic theory for managerial decision-making. (Same as Econ. 430.)

Prerequisite: Econ 206 and Mgmt 360.

**Mgmt 440(g) Personnel Management (4) (FW)**

Management of people at work with emphasis on recruiting, selecting, training, and evaluating personnel. Prerequisites: Mgmt 360, Psy 119 or Soc 205.

**Mgmt 450(g) Production/Operations Management (4) (FWS)**

Description and analysis of the production/operations function in an organization. Prerequisites: Mgmt 360 and Math 275.

**Mgmt 452(g) Organizational Development (4) (W)**

Techniques used to assist in solving problems and dealing more rapidly with change. Prerequisites: Mgmt 360, Mgmt 440 or 451.

**Mgmt 456(g) Management Information Systems (4) (FWS)**

Design and use of communication processes in which data are recorded, transmitted, and revised as an aid in managerial decision making. Prerequisites: Mgmt 360, CIS 145 or ComS 201.

**Mgmt 458(g) International Management (4) (FWS)**

Examination of organizational management in the international environment will focus on private and public management in the exchange of goods and services. Prerequisite: Mgmt 360.

**Mgmt 461(g) Management Seminar (4)**

Selected management topics of contemporary interest. May be repeated with different topics. Prerequisite: Mgmt 360.

**Mgmt 598 Research in Management (3)**

Research in a specific problem area in management. Designed to provide training in the use of research techniques. Topic selected through conference with faculty advisor. Prerequisite: Graduate standing.

**Marketing Courses**

**Mktg 315(g) Industrial Marketing (4) (W)**

Methods of marketing goods and services to manufacturers, wholesalers, retailers, institutions, and governments. Prerequisite: Mktg 310.

**Mktg 406(g) Small Business Management Consulting (2) (FWS)**

Practicum in providing marketing assistance to small business. To be taken two quarters consecutively for a total of four credits. Senior or graduate standing and permission of the instructor required. Offered only on a pass/fail basis.



**Mktg 410(g) Marketing Logistics (4) (S)**

Movement and storage activities associated with the distribution of raw materials and finished goods.

Prerequisite: Mktg 310, Math 275.

**Mktg 420(g) Marketing Channels and Institutions (4)****Mktg 421 Consumer Behavior (4) (FWS)**

Behavioral science concepts applied to the study of consumer decision-making. Prerequisite: Mktg 310, Psy 119 or Soc 205.

**Mktg 442(g) Marketing Seminar (4) (FWS)**

Selected marketing topics of contemporary interest.

Prerequisite: Mktg 310. May be repeated with different topics.

**Mktg 444(g) Transnational Marketing (4) (FS)**

Comprehensive study of those factors affecting international marketing. Prerequisites: Mktg 310, senior standing.

**Mktg 470(g) Independent Study (1-4) (FWS)**

Individual inquiry into theoretical aspects of marketing not covered in the regular curriculum. Prerequisite:

Consent of instructor.

**Mktg 498(g) Problems in Marketing (1-4) (FWS)**

Individual inquiry into a practical marketing problem.

Prerequisite: Consent of instructor.

**Mktg 598 Research in Marketing (3)**

Research into a specific problem area in marketing to provide training in the use of research techniques. Topic to be selected with faculty advisor. Prerequisite:

Graduate standing.

**Economics Department****Economics Courses****Econ 411(g) Economic History of the United States I (4)**

Analysis of the economic history of the United States from the colonial period to the eve of the industrial age. Prerequisite: One year of college history.

**Econ 412(g) Economic History of the United States II (4)**

Economic history of the United States from the dawn of the industrial age to the present. Prerequisite: Econ 411 or equivalent.

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

Market structure, market conduct, and economic performance. Public policy regarding the attainment of workable competition in industry. (Same as Management 415). Prerequisite: Econ 315.

**Econ 416(g) Labor Economics (4) (W)**

Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation. (Same as Management 416).

Prerequisite: Econ 206.

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

Theories and institutions of trade and finance are examined in traditional and contemporary contexts. (Same as Finance 425) Prerequisite: 304 or 320.

**Econ 430(g) Managerial Economics (4) (W)**

Integration of quantitative methods and economic theory for managerial decision-making. (Same as Management 430.) Prerequisite: Econ 206 and Management 360.

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

An individual inquiry into economic problems not dealt with in the regular curriculum. Prerequisite: Econ 206 and consent of instructor. May be repeated for credit.

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

An intensive investigation of some aspect of economics. Subject matter and prerequisites depend upon the interests of the instructor.

**Econ 598 Research in Economics (3)**

Individual graduate-level research of an economic topic of mutual interest to student and instructor.

Prerequisite: Consent of instructor and MBA Program Director.

**English Department****English Courses****Engl 361(g) Introduction to Descriptive Linguistics (4)**

A broad survey of the field of descriptive linguistics.

**Engl 363(g) History of the English Language (4)**

An historical and linguistic approach to the phonology and morphology of English. Emphasis may be on Old, Middle, or Modern English.

**Engl 364(g) American English (4)**

An examination of the grammatical system of American English with some study of dialects.

**Engl 391(g) Teaching English in Secondary Schools (4) (W)**

Current practices in teaching secondary English; possible observation of secondary classes; discussion of curriculum, approaches, and techniques.

**Engl 392(g) Teaching Adolescent Literature and Reading (4) (S)**

Review of current trends in adolescent literature. Approaches and techniques for teaching reading and for studying literature in junior and senior high school. May be repeated after five years with consent of instructor.

**Engl 393(g) Grammars of English (4) (W)**

A survey of human communication, of the history of language study, of the history of the English language, and of the various kinds of grammars: traditional, structural and transformational.

**Engl 408(g) Studies in American Literature (4)**

**Engl 410(g)\* Studies in British Literature (4)**

Study of selected topics, movements, or genres.

**Engl 414(g) Advanced Shakespeare (4)**

**Engl 430(g)\* Individual Author (4)**

Intensive study of selected works of one author.

**Engl 440(g) Advanced Genre Studies (4)**

**Engl 450(g)\* Critical Traditions (4)**

Principal works of literary aesthetics and criticism from selected periods in history.

**Engl 480(g)\* Advanced World Literature (4)**

Intensive study of selected world masterpieces from one language, in translation.

**Engl 488(g) Advanced Creative Writing (3)**

Advanced work in writing of poetry, short fiction, plays, or film. Prerequisite: Engl 388 and/or consent of the instructor. Students may repeat this course once when the topic varies.

**Engl 492(g) Transformational Grammar (4)**

An introduction to the theory of generative grammar and its applications.

**Engl 498(g) Tutorial (1-3)**

The consideration of various problems in literature or language agreed upon by the instructor and the student.

## **Health, Physical Education, and Recreation Department**

### **Health Courses**

**Hlth 410(g) Consumer Health (4) (S)**

Investigation of the impact on the consumer of various health-related products and services: provides an opportunity to analyze and evaluate in order to select more intelligently.

**Hlth 412(g) Marriage and Family Life Education (4) (Fws)**

An in-depth study of premarital, and family relations. Group and valuing processes are involved.

**Hlth 415(g) Design and Evaluation of Community Health Education Programs (3) (S)**

Study of a process and the technique to organize, implement, and evaluate community health education programs. Prerequisite: Hlth 215, Hlth 340, or consent of instructor.

**Hlth 465(g) Organization and Administration of School Health Programs (3) (S)**

A study of the philosophy of the three phases of the school health program, and the policies and procedures used in coordinating such programs.

**Hlth 474(g) Workshop in Health Education (2)**

Designed to meet special needs for up-to-date information in specific health areas. Prerequisite: Consent of instructor.

**Hlth 476(g) Seminar in Health Problems (2-6)**

Issues of major concern in the field of health. Topics of

special interest. This course may be repeated to a maximum of six hours. Prerequisite: Consent of instructor.

**Hlth 540 Problems in Health Education (3)**

In-depth study and research of the philosophical socioeconomic, and scientific implications of health education in a changing society and resulting needs. Prerequisite: Hlth 465 or equivalent.

### **Physical Education Courses**

**PE 421(g) Physiology of Exercise (4) (FWS)**

A study of the function of the systems of the human body most notably affected by exercise, the lack of exercise, and various work aids. Common physiological problems in teaching physical education and coaching athletics will be considered.

**PE 452(g) Adapted Physical Education (4) (FW)**

Activities, administration and programs related to the handicapped.

**PE 453(g) Assessment and Programming in D/APE(4) (S)**

A study of instructional/administrative methods and activities for the physical education program as it relates to the needs, interests and abilities of persons with physical and/or mental handicaps. Prerequisite: Consent of instructor.

**PE 475(g) Administration of Athletics (3) (S)**

Problems, policies and procedures in the administrative procedures of a high school athletic program. Prerequisite: Senior standing or instructor's consent.

**PE 495(g) Administration of Physical Education (3) (FS)**

Problems, policies and procedures in the administration of physical education. Prerequisite: Senior standing or instructor's consent.

**PE 540 Problems in Physical Education (3)**

Individual problems and problems common to groups in physical education.

**PE 595 Special Problems (1-3)**

### **Recreation Courses**

**Rec 465(g) Organization and Administration of Recreation (3) (F)**

Policies, procedures, and problems in establishing and operating a municipal recreation program.

**Rec 540 Problems in Recreation (3)**

Individual projects; problems common to the group.

## **History Department**

### **History Courses**

**Hist 305(g) Modern Middle East (4) (W)**

The Middle East since 1914. European imperialism and the background to the Arab-Israel struggle, nationalism, revolution, Islamic resurgence, and contemporary problems.

**Hist 307(g) Studies in Asian History (3-4)**

Selected topics in Asian history.

**Hist 308(g) Studies in African History (3-4)**

Selected topics in African History.

**Hist 309(g) Studies in Latin American History (3-4)**

Selected topics in Latin American history.

**Hist 310(g) Studies in European History (3-4) (W)**

Selected topics in European history.

**Hist 311 (g) Studies in North American History (3-4) (W)**

Selected topics in North American history.

**Hist 312-313-314(g) Ancient History I-II-III (4 each) (F-W-S)**

312: Ancient Near East: political, social, and cultural history from the dawn of civilization through the formation of the great empires. 313: Ancient Greece: social, political, economic, and cultural development. 314: Ancient Rome: political, social, economic, and cultural development.

**Hist 315(g) Medieval Europe (3)**

European history from the decline of the Roman Empire to the Renaissance.

**Hist 316(g) The Renaissance (3) (W)**

The political, religious, cultural, economic, and social evolution of Europe from the 14th to the 16th century.

**Hist 317(g) The Reformation (3) (S)**

Sixteenth century Europe during the Protestant and Catholic Reformation period; the development of the modern state system.

**Hist 318-319(g) History of Germany I-II (4 each)**

318: Germany from earliest times to the late 19th century. 319: Political, social and economic developments to the present.

**Hist 325(g) French Revolution and Napoleon (4)**

A survey of the French Revolutionary and Napoleonic periods in European history examining the causes and consequences of the Revolution in social, political and military terms.

**Hist 331-332-333(g) Russian History I-II-III (4 each) (F-W-S)**

331: Russia from earliest times to the end of the 18th century; 332: Imperial Russia in the 19th century to the end of the Romanovs (1917); 333: Russian Revolution and history, government, society and foreign policies of Soviet Union to the present.

**Hist 340-341(g) History of Scandinavia I-II (4 each) (F-W-S)**

340: Survey of the social, cultural, political and economic development of the peoples of the five Scandinavian countries from pre-historic times to the mid-18th century. 341: Mid-18th century to the present.

**Hist 355(g) The Scandinavian Heritage in America (4) (S)**

An examination of the conditions in the Scandinavian

countries in the 19th century which prompted mass migration to the U.S., the regions and nature of early Scandinavian settlements, adjustment and assimilation, and the nature and degree of ethnic retention among the descendants of these immigrants.

**Hist 357-358(g) United States Foreign Relations I-II (4 each) (F-W-S)**

357: Diplomacy in the era of the American revolution, continental expansion, the Civil War, and the Gilded Age. 358: American expansion into the Caribbean and to the Far East, World Wars I and II; the various forces that affected American foreign relations in the twentieth century.

**Hist 366-367(g) Constitutional History of the United States I-II (4 each)**

366: The origins and development of the American Constitution from Colonial times to the beginning of the industrial age. 367: The American constitutional system in its historic setting from early industrial times to the present.

**Hist 368-369(g) American Life and Thought I-II (4 each)**

368: From the beginnings to mid-19th century. 369: From Darwin to the present.

**Hist 370(g) The American West (4)**

The frontier movement as a factor responsible for North American character and institutions.

**Hist 375(g) Women in United States History (3-4) (W)**

This course will focus on the experience of women in America from colonial times through the present. Oral history and primary documents such as diaries and newspaper writings will be examined to better understand the changing lives of ordinary women. Major attention will also be paid to women's activism and women's issues.

**Hist 377(g) Afro-American History (3-4) (S)**

This course will focus on the black experience in America from the African background through the present. Major topics: Slave Experience, the Reconstruction Period, The Black Urban Experience in the 20th Century, the Civil Rights movement.

**Hist 381-382(g) History of Canada I-II (3 each) (WS)**

381: Pre-Confederation Canada: exploration and French settlement through the conquest, British rule, achievement of responsible government, and the development of Canadian nationality. 382: Post-Confederation Canada: the consolidation and expansion of Canada from Confederation to the present, emphasis on Canada's internal growth and multinational character.

**Hist 402(g) Seminar in African History (3-4)**

Problems in African history for advanced students.

**Hist 403(g) Seminar in Latin American History (3-4) (S)**

Problems in Latin American history for advanced students.

**Hist 404(g) Seminar in European History (3-4)**  
Problems in European history for advanced students.

**Hist 405(g) Seminar in North American History (3-4) (F)**  
Problems in North American History for advanced students.

**Hist 560 Tutorial in History: Graduate (1-3)**

**Hist 595 Special Problems (1-3)**

## **Humanities Department**

### **Humanities Courses**

**Hum 310(g) Women's Studies (4) (FS)**  
Inter-disciplinary perspectives on women from biology, humanities, the arts, and the social sciences. Core class for Women's Studies minor program.

**Hum 311(g) Topics in Women's Studies (3-4)**  
May be repeated for credit as topics vary. Prerequisite: Hum 310 or consent of instructor.

**Hum 351(g) American Religion (4)**  
An interdisciplinary examination of religious life and thought in America.

**Hum 410(g) Directed Readings in Women's Studies (1-8)**  
Projects designed by students and instructor. Prerequisites: Hum 310 or consent of instructor. May be repeated for credit.

**Hum 411(g) Christian Origins (4)**  
An interdisciplinary approach to the study of the origins of Christianity.

## **Languages Department**

### **French Courses**

**Fren 480(g) Special Topics in French Literature and/or Culture (2-4)**  
In-depth study of a selected topic in French. May be repeated for credit. Counts toward the French major or minor. Prerequisite: Fren 203 or consent of instructor.

**Fren 487(g) Studies in the French Language (3)**  
In-depth study of a selected topic in French linguistics (history of the language, structure of modern French). Prerequisite: Fren 403 or consent of instructor. May be repeated for credit.

### **Spanish Courses**

**Span 480(g) Special Topics in Spanish Literature and Culture (2-4)**  
In-depth study of a selected topic in Spanish. Focus may be historical or a theme, motif, genre, movement, period, or a single major author. May be repeated for credit. Prerequisite: Span 311-312-313 or consent of instructor.

**Span 431(g) Nineteenth Century Novel of Spain (4)**

**Span 432(g) Twentieth Century Novel of Spain (4)**

**Span 433(g) Twentieth Century Poetry and Drama of Spain (4)**

**Span 434-435(g) Spanish American Prose Fiction I-II (4 each)**

**Span 436(g) Latin-American Poetry, 1890 to Present (4)**

## **Mass Communications Department**

### **Mass Communications Courses**

**MC 440(g) Communications Law (4) (FWS)**  
Consideration of the legal philosophy bearing on the mass media.

**MC 460(g) International Communication (4) (W)**  
An examination of comparative media systems in the Western, Marxist and Third Worlds and of the current issues in international communication.

**MC 465(g) Investigative Processes (4) (W)**  
Examination of human and library reference sources and their applications to investigative and in-depth news reporting. Prerequisite: MC 205 & 305.

**MC 496(g) Journalism Workshop (1-3) (FWS)**  
A course designed for workshops in broadcast or print journalism.

**MC 497(g) Advertising, Public Relations Workshop (1-3)**  
A course designed for workshops in advertising or public relations.

**MC 499(g) Topical Workshop (1-4) (S)**  
A course designed for workshops on current media topics.

**MC 580 Problems in Mass Communications (1-4) (FWS)**  
Individual problems in areas of specific interest to the student.

## **Mathematics Department**

### **Mathematics Courses**

**Math 383(g) Applied Regression Analysis (4) (F88)**  
Regression models, inferences on regression models; multiple regression; correlation; model selection techniques; forecasting. Prerequisite: Math 273 and 275 or 376 or consent of instructor.

**Math 400(g) History of Mathematics (4) (F87)**  
Topical and chronological survey of the main branches of mathematics. Prerequisite: Math 233 or consent of instructor.

**Math 410(g) Actuarial Science II (2) (S)**  
Analysis and application of mathematical probability and statistical theory included in the second examination administered by the Society of Actuaries. Prerequisite: Math 475 or concurrent registration.

**Math 415(g) Foundations of Geometry (4) (F)**  
Euclidean geometry, transformations, cross ratio, geometry of circles, constructions. Prerequisite: Math 391.

**Math 420(g) Mathematical Modeling (4) (F88)**  
Techniques of developing and analyzing mathematical descriptions of physical phenomena. Prerequisites: Math 234, Math 327 and Math 375 or consent of instructor.

**Math 424-425(g) Abstract Algebra I-II (4 each) (F-W)**  
Groups, rings, and fields studied as abstract mathematical systems. La Grange's theorem, factor groups, homomorphisms, polynomial rings, quotient rings, integral domains and algebraic extensions. Sequential. Prerequisites: Math 327 and Math 391.

**Math 427(g) Linear Algebra (4) (S)**  
The theory of finite dimensional vector spaces. Linear transformations and their matrix representations, duality and characteristic values. Prerequisite: Math 424.

**Math 450(g) Numerical Analysis I (4) (W)**  
Numerical solutions to equations, finite differences, interpolation formulas, and numerical calculus. Prerequisites: Math 331 and ComS 250 or consent of instructor.

**Math 451(g) Numerical Analysis II (4) (S89)**  
Topics related to linear algebra and differential equations. Prerequisites: Math 327 and Math 450.

**Math 467(g) Complex Analysis (4) (W)**  
Complex numbers and variables, analytic functions, the Cauchy integral formula, infinite series, and conformal mappings. Prerequisite: Math 392.

**Math 470(g) Introduction to Operations Research (4) (F87)**  
Linear programming, network analysis, dynamic programming, queueing theory, decision analysis, advanced programming techniques. Prerequisites: Math 327 and Math 375.

**Math 474(g) Probability (4) (W)**  
Probability, probability distributions, limiting distributions. Prerequisite: Math 375.

**Math 475(g) Mathematical Statistics (4) (S88)**  
Estimators, order statistics, hypothesis testing, likelihood tests, analysis of variance, linear models. Prerequisites: Math 376 and Math 392.

**Math 480(g) General Topology (4) (W)**  
Metric spaces, topological spaces, continuity, compactness, connectedness, and separation axioms. Prerequisite: Math 392.

**Math 495(g) Theory of Numbers (4) (S89)**  
Topics from elementary number theory such as divisibility, congruences, Diophantine equations, number theoretic functions and continued fractions. Prerequisite: Math 391.

**Math 574 Statistical Methods for Business Management (3)**  
Probability, sampling distributions, estimation of mean and proportion, tests of hypotheses. Prerequisite: Consent of MBA coordinator and instructor.

## Philosophy Department

### Philosophy Courses

**Phil 320(g) Philosophy of the Arts (4) (Annual)**  
A consideration of philosophical questions relating to the fine arts. Representative topics include the nature of art, aesthetic experience, criticism in the arts, representation, symbolism, and evaluation. Prerequisite: One course in Philosophy or consent of instructor.

**Phil 365(g) Philosophy of Science (4) (Alternate years)**  
An examination of traditional and contemporary views of the nature, function and value of science. Representative topics include the nature of scientific inquiry, the relationship between theory and observation, the idea that science provides an objective picture of reality, "progress" in science, and the differences between science and pseudo-science. Prerequisite: One course in philosophy or consent of instructor.

**Phil 370(g) Skepticism and Knowledge (4) (Alternate years)**  
Study of some of the major issues in the theory of knowledge, focusing on the question of whether or not knowledge is possible. The course will cover such issues as: the definition of "knowledge"; rationalism and empiricism; truth; perception; self-knowledge and knowledge of others; necessary truth. Prerequisite: One course in philosophy or consent of instructor.

**Phil 380(g) Plato (4) (Alternate years)**  
A study of several major dialogues of Plato. Prerequisite: One course in philosophy or consent of instructor.

**Phil 440(g) Seminar in Philosophy (1-4)**  
Study of selected philosophical problems, major philosopher, or philosophical movement. Specific topics will be announced in class schedule. Students may register more than once when content varies. Prerequisite: One course in philosophy or consent of instructor.

**Phil 490(g) Independent Study (2-4)**  
Intensive independent study of a philosophical problem, major philosopher, philosophical movement, under the direction and supervision of one or more members of the department. May be repeated to a maximum of nine credits. A maximum of four credits may be used to fulfill the requirements of the major in philosophy. Students who desire to undertake independent study will submit a written proposal indicating the problem or philosopher(s) they wish to study, and their tentative procedure for carrying out the study. The proposal must be submitted at least two weeks before the beginning of the quarter. The members of the department will examine the proposal to determine the feasibility of the plan and, if the proposal is approved by the department, the amount of credit to be given for it. Prerequisite: Approval of independent study proposal by the department of philosophy.



## Physics Department

### Physics Courses

#### Phys 330-331-332 Intermediate Mechanics I-II-III (3 each) (F-W)

An advanced unified approach to physical problems: Newton's Laws; algebra and calculus of vectors; particle dynamics in one, two, and three dimensions; systems of particles, gravitation, moving reference frames; Lagrange's equations, dynamics of rigid bodies; Hamilton's equations, variational principles, Hamilton-Jacobi theory, small oscillations, mechanics or continua; special theory of relativity. Prerequisites: Phys 202 and Math 331 or permission of instructor.

#### Phys 345 Aerospace Education Workshop (4)

Scientific principles of aerospace topics. Field trips, guest lecturers, flying lesson. Air tour when possible. Resources for public school teachers. May be taken for pass-fail credit only. Prerequisites: Elementary or Secondary teachers and teaching candidates or permission of instructor.

#### Phys 370-371(g) Electromagnetic Theory I-II (3 each) (F-W)

Advanced study of electromagnetism: boundary value problems, electrostatics of microscopic media, magnetostatics, Maxwell's equations, and plane electromagnetic waves. Prerequisite: Phys 202 and Math 331.

#### Phys 372(g) Optics (3) (S)

Geometrical optics, interference, diffraction, polarization and optical instruments. Prerequisite: Phys 371.

#### Phys 430(g) Quantum Mechanics (4) (On demand)

Application of quantum mechanics to atoms and molecules. Prerequisites: Phys 322, 331 and 370 or permission of instructor.

#### Phys 432(g) Introductory Solid State Physics (3)

Crystalline structure of solids. Lattice properties. Electron theory of metals. Prerequisites: Phys 322, 430, or permission of instructor.

#### Phys 490(g) Physics Seminar (1)

## Political Science Department

### Political Science Courses

#### Pol 310 Scope and Method (3) (F)

Approaches to the study of politics: methodologies and techniques of political research.

#### Pol 311(g) American Political Thought (4) (S)

A survey of American political thought from New England Puritanism to modern pragmatism, conservatism, and radicalism.

#### Pol 312(g) Communist and Marxist Foundations of Government (3)

Evolution of Communism in Eastern and Western cultures as a theory and practice of government. Marxism and the nineteenth century development of Communism.

#### Pol 341(g) Public Policy (3) (F)

The policy processes and issues of the national government.

#### Pol 352(g) Political Problems in Developing Countries (3) (S)

Social and economic conditions affecting political institutions in the developing countries. The third world in international relations.

#### Pol 355(g) Politics of Scandinavia (4)

#### Pol 360(g) American Foreign Policy (4) (W)

U.S. foreign policy: its historical evolution, geographical position, economic, military, and political interest.

#### Pol 361(g) Topics in International Law (3-4 each) (W)

The doctrine of sovereignty; rights and obligations of states; freedom of the high seas; disputes, conflicts and the laws of war. May be repeated.

#### Pol 362(g) Topics in International Organizations (3-4 each) (W)

The nineteenth century European experience; from the League of Nations to the United Nations; the UN charter and its meaning and interpretation; specialized agencies of the UN. May be repeated.

#### Pol 410(g) Topics in Western Political Thought (4 each) (F)

May be repeated.

#### Pol 411(g) Eastern Political Thought (3)

#### Pol 420(g) Seminar in American Politics (3) (WS)

Research and advanced analysis of selected topics; supervised individual studies. May be repeated as content is changed.

#### Pol 430(g) Topics in Constitutional Law (2-4 each) (WS)

May be repeated. Interpretation of the Constitution of the United States by federal courts.

#### Pol 431(g) Social Work and the Law (3)

#### Pol 455(g) Topics in Comparative Government (2-4 each)

Variable topics such as the British Commonwealth, Europe, Africa, Asia, the Middle East; or comparative government. May be repeated for credit.

#### Pol 460(g) International Politics (4)

Contemporary theories of international conflict, roles of the individual, the state, and the international environment in global politics.

#### Pol 461(g) Independent Study in Political Science (1-6) (FWS)

Readings, research papers, special projects under the close supervision of members of the department. Prerequisites: Pol 110 and 120 or consent of instructor.

#### Pol 469 Student Internship (3-16) (FWS)

**Pol 490(g) Senior Seminar in Political Science (2-4) (WS)**

Examination of an issue, problem, or concept at a senior level in a seminar setting. May be repeated as the topic varies. Prerequisites: Pol 110 and 120 or consent of instructor.

**Social Work Department**

***Social Work Courses***

**SW 406(g) Advocacy(4)**

**SW 407(g) Social Group Work (4)**

Social work practice with groups. Understanding the stages of group process, the role of the social group worker in working with groups, group assessment and intervention. Prerequisite: SW 359 or consent of instructor.

**SW 408(g) Community Organization (4)**

Social work practice with communities around community issues and problems. Understanding several models of community organization, the role of the community organizer, community assessment, and intervention. Prerequisite: SW 259 or consent of instructor.

**SW 409(g) Social Policies and Services for the Elderly (4) (S)**

A critical examination of social policies and services for the elderly. Role of the social worker in direct and indirect service. Prerequisite: SW 259 and 308 or consent of instructor.

**SW 425(g) Topical Seminar in Social Welfare (1-9)**

Selected topics of concern to social work students and human service professionals. Prerequisite: SW 250 or consent of instructor. (May be repeated to nine credits)

**Sociology and Anthropology Department**

***Anthropology Courses***

**Anth 445(g) Seminar in Anthropology (4) (S)**

Selected topics in anthropology. Prerequisite: Junior or senior standing or consent of instructor.

**Anth 461(g) Readings in Anthropology (1-8) (on demand)**

Selected readings in anthropology under the close supervision of a member of the department.

Prerequisite: Upper division status and permission of the instructor.

***Sociology Courses***

**Soc 312(g) Sociology of Complex Organizations (3-4)**

**Soc 411(g) Current Sociology (3-4) (W or S)**

Current theory and research. Emphasis on theoretical models and research design. Prerequisite: Soc 211 and 351.

**Soc 414(g) Topics in Political Sociology (3)**

**Soc 417(g) Topics in Sociology of Change (3)**

**Soc 418(g) Sociology of Education (3-4) (on demand)**

Social factors that affect learning in education institutions. Prerequisite: Soc 110 and nine credits in sociology or nine credits in education or consent of instructor.

**Soc 420(g) Trends in American Society (3-4) (on demand)**

Examines larger social and institutional developments in American society since the Civil War; economics concentration, bureaucratization, class structure, minority politics, societal coordination, decline of empire. Prerequisites: Soc 110, Soc 417 or consent of instructor.

**Soc 425(g) Seminar in Sociology (3-4) (on demand)**

Selected topics. Prerequisite: Upper-division status and consent of the instructor. May be repeated for credit.

**Soc 449(g) Topics in Social Stratification (3-4)**

Studies in the nature and processes of social inequality. Prerequisites: Upper-division status and consent of instructor. May be repeated for credit.

**Soc 452(g) Topics in Advanced Research Techniques (3-4)**

Advanced methodologies and analytic techniques for sociological research. Prerequisite: Upper-division status and consent of instructor. May be repeated for credit.

**Soc 461(g) Readings in Sociology (1-6) (FWS)**

May be repeated to a maximum of six credits. Prerequisites: Senior status and consent of instructor.

**Soc 500-501 Sociological Theory I-II (3 each)**

Prerequisite: Graduate standing and permission of the instructor.

**Soc 510 Individual Research (3-6)**

Maximum three credits per quarter. May be repeated once for credit. Prerequisite: Graduate standing and consent of instructor.

**Soc 512 Topical Seminar in Sociology (3-6)**

Maximum 3 credits per quarter. May be repeated once for credit. Prerequisite: Graduate standing and permission of instructor.

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## GRADUATE FACULTY

**Roland Dille**, 1963. President and Professor of English. B.A., Ph.D., University of Minnesota.

**Mary Ellen Heian Schmider**, 1977. Dean of Graduate Studies and Coordinator of Grants. B.A., St. Olaf College; M.A., University of Southern California; Ph.D., University of Minnesota.

**Earl D. Alberts**, 1985. Professor of Business Administration. D.B.A., University of Colorado; B.S., Morningside College; M.A., University of Nebraska.

**M. Wayne Alexander**, 1977. Professor of Business Administration. B.S., M.B.A., Fresno State College; Ph.D., University of Illinois at Urbana-Champaign.

**Dean Alger**, 1982. Associate Professor of Political Science. M.A., Ph.D., University of California (Riverside).

**Roman Alvarez**, 1985. Associate Professor of Languages. B.S., University of Santiago, Spain; "Licenciado" in Law, University of Oviedo, Spain; Language Certificate, University of Heidelberg; M.A., Temple University; Ph.D., University of Pennsylvania.

**Beth C. Anderson**, 1969. Associate Professor of Secondary Education. B.A., Jamestown College; M.A., Washington State University; Ed. D., University of North Dakota.

**Lawrence R. Anderson**, 1966. Professor of Education. B.S., Valley City State College; M.S. in Ed., North Dakota State University; Ph.D., George Peabody College for Teachers.

**Robert S. Badal**, 1971. Dean of Arts and Humanities and Associate Professor of Speech. B.A., University of Illinois; M.A., Ph.D., Northwestern University.

**James R. Barnett**, 1982. Associate Professor of Industrial Studies. B.S.E., M.A., North East Missouri State University; Ed.D., East Texas State University.

**Virginia Barsch**, 1976. Professor of Art. B.A., Barat College; M.A., San Francisco College; Ph.D., Northwestern University.

**Monroe H. Bartel**, 1963. Professor of Biology. A.B., Tabor College; M.S., Ph.D., Kansas State University.

**Paul L. Beare**, 1979. Associate Professor of Special Education. B.A., M.Ed., Ph.D., University of Missouri.

**Rufus T. Bellamy**, 1964. Assistant Professor of English. B.A., M.A., Yale University.

**Leonard W. Bergquist**, 1969. Professor of Education. B.S., M.S., Moorhead State University; Ph.D., University of Minnesota.

- Dieter G. Berninger**, 1970. Professor of Humanities and Multicultural Studies. B.A., M.A., Ph.D., University of Wisconsin.
- Richard R. Bolton**, 1979. Associate Professor of Multidisciplinary Studies. B.A., Stanford University; M.A., California State University, Los Angeles; Ph.D., Washington State University.
- Barbara J. Boseker**, 1980. Associate Professor of Education. B.S., University of Wisconsin, Milwaukee; M.A., Ph.D., University of Wisconsin, Madison.
- Richard F. Bowman**, 1978. Professor of Secondary Education. B.S., M.Ed., Ohio University; Ph.D., University of Toledo.
- Bradley A. Bremer**, 1968. Professor of Psychology. B.A., Moorhead State University; M.A., Ph.D., Michigan State University.
- Curtis R. Bring**, 1973. Chairman and Professor of Computer Science. B.S., M.A., North Dakota State University; Ed.D., University of Northern Colorado.
- Deborah M. Broad-Schimmer**, 1981. Associate Professor of Art. B.A., Hollins College; M.F.A., University of Tennessee.
- Lyndon E. Brown**, 1979. Chairperson and Associate Professor of Health, Physical Education and Recreation. B.A., University of North Carolina; M.S., Ph.D., University of New Mexico.
- Dewey O. Brummond**, 1966. Professor of Chemistry. B.S., North Dakota State University; M.S., Ph.D., University of Wisconsin.
- M. Anne Brunton**, 1969. Chairperson and Associate Professor of Sociology and Anthropology. B.A., M.A., Ph.D., Washington State University.
- Norman A. Buktenica**, 1976. Professor of Education. B.A., Wabash College; M.A., Roosevelt University; Ph.D., University of Chicago.
- Dolores J. Buttry**, 1978. Associate Professor of Languages. B.A., M.A., Illinois State University; M.A., Middlebury College; Ph.D., University of Illinois.
- Richard F. Bynum**, 1979. Associate Professor of Health, Physical Education and Recreation. B.S., M.S., Florida State University; Ed.D., University of Tennessee.
- Allen E. Carter**, 1969. Professor of Mass Communications. B.F.A., M.F.A., Ohio University; M.F.A., University of Guanajuato.
- Joel M. Charon**, 1972. Professor of Sociology. B.S., M.A., Ph.D., University of Minnesota.
- Mark G. Chekola**, 1969. Professor of Philosophy. B.A., Concordia College; M.A., Ph.D., University of Michigan.
- Timothy Y. C. Choy**, 1969. Professor of Speech Communication and Theatre Arts. B.A., Pacific University; M.A., Ph.D., Pennsylvania State University.
- David D. Cole**, 1970. Professor of Psychology. B.S., Purdue University; A.M., Ph.D., West Virginia University.
- Thomas W. Collins**, 1962. Chairperson and Professor of Biology. B.S., Southern Illinois University; Ph.D., University of Minnesota.
- James F. Condell**, 1965. Professor of Psychology. A.B., Kentucky State College; M.A., Teacher's College, Columbia University; Ed.D., University of Nebraska.
- Yvonne C. Condell**, 1965. Professor of Multidisciplinary Studies and Biology. B.S., Florida A & M; M.A., Ph.D., University of Connecticut.
- Marjorie K. Corner**, 1966. Professor of English. B.A., Hamline University; M.A., Ph.D., Washington State University.
- Delmar G. Corrick**, 1976. Director and Professor, New Center for Multidisciplinary Studies, B.A., M.A., University of New Hampshire; Ph.D., Washington State University.
- Leslie W. Crawford**, 1972. Professor of Education. B.S., M.S., Eastern Montana College; Ed.D., University of California, Berkeley.
- Ruth N. Dahlke**, 1976. Professor of Music. B.M., Lawrence University; M.M., D.M.A., Eastman School of Music, University of Rochester.
- Elizabeth Bull Danielson**, 1982. Director of School Psychology Program and Associate Professor of School Psychology. B.A., Baylor University; M.A., Ph.D., University of Colorado.
- Robert B. Davies**, 1966. Professor of History. B.A., College of Wooster; M.A., Rutgers University; Ph.D., University of Wisconsin.
- Louis J. DeMaio**, 1980. Associate Professor of Speech/Language/Hearing Sciences. B.S., Brescia College; M.A., Montclair State College; Ph.D., Southern Illinois University.
- Daniel P. Deneau**, 1976. Chairperson and Professor of English. B.A., St. Joseph's College; M.A., Ph.D., University of Notre Dame.
- Joseph M. DiCola**, 1973. Professor of Education. B.A., Shimer College; M.S.Ed., Ed.D., Northern Illinois University.
- Sidney J. Drouilhet**, 1981. Associate Professor of Mathematics. B.A., M.A., Ph.D., Rice University.
- Richard A. DuBord**, 1973. Chairperson and Professor of Social Work. A.B., St. Francis College; M.S.W., St. Louis University, D.S.W., University of Utah.

- William E. Eagan**, 1967. Professor of History. B.A., St. Michael's College; M.A., University of Vermont; Ph.D., University of Western Ontario.
- David C. Ferreira**, 1974. Professor of Music. B.M., Illinois Wesleyan University; M.M., Ph.D., University of Cincinnati.
- Wilbert B. Fischer**, 1971. Professor of Accounting. B.S. in Ed., State University of North Dakota at Ellendale; M.S., Ph.D., University of North Dakota.
- David P. Flint**, 1971. Chairperson and Professor of Political Science. B.S., University of North Dakota; M.A., Ph.D., Washington State University.
- Verle Dennis Flood**, 1962. Professor of English. B.A., M.A., Ph.D., State University of Iowa.
- Howard G. Freeberg**, 1965. Coordinator of International Studies and Professor of Education. B.S., University of North Dakota at Ellendale; M.Ed., Ed.D., University of North Dakota.
- Carol J. Gaede**, 1975. Professor of Speech Communication and Theatre Arts. B.A., Concordia Teachers College; M.S., Ph.D., Southern Illinois University.
- Peter Geib**, 1982. Associate Professor of Business Administration. B.A., University of Minnesota; M.A., Ph.D., University of Michigan.
- Nancy Gilliland**, 1977. Associate Professor of Sociology-Anthropology. B.A., Nebraska Wesleyan University; M.A., University of Nebraska, Omaha; Ph.D., University of Nebraska, Lincoln.
- Sandra L. Gordon**, 1980. Associate Professor of Education. B.S., St. Louis University; M.A., Ph.D., University of New Mexico.
- Douglas A. Greenley**, 1978. Professor of Economics. B.A., M.A., North Dakota State University; Ph.D., Colorado State University.
- Virginia Gregg**, 1981. Assistant Professor of Speech Communication and Theatre Arts. B.A., Southwest State University; M.A., Murray State University; Ph.D., University of Columbia.
- Martin A. Grindelund**, 1981. Associate Professor of Mass Communications. B.S., Mayville State College; M.A., University of North Dakota; Ph.D., University of Wisconsin, Madison.
- K. Dale Gronhovd**, 1974. Professor of Speech/Language/Hearing Sciences. B.S., M.A., University of North Dakota; Ph.D., University of Oregon.
- Evelyn L. Grove**, 1968. Associate Professor of Business Education. B.A., Mayville State Teachers College; M.A., University of Minnesota; Ed.D., University of North Dakota.
- Henry Gwiazda**, 1981. Associate Professor of Music. B.M., Eastman School of Music; M.M., Hartt College of Music; D.M.A., University of Cincinnati.
- Ernest W. Hallford**, 1984. Assistant Professor of Psychology. B.A., University of Alabama; B.A., University of New Orleans; M.A., Ph.D., Ohio State University.
- Allan J. Hanna**, 1960. Associate Professor of English and Latin. A.B., A.M., University of Michigan.
- Mark V. Hansel**, 1974. Associate Professor of Sociology. B.A., Nyack Missionary College; M.A., Ph.D., University of Iowa.
- Delmar J. Hansen**, 1958. Chairperson and Professor of Speech Communication and Theatre Arts. B.S., University of Omaha; M.S., Florida State University; Ph.D., State University of Iowa.
- Bruce R. Hanson**, 1979. Assistant Professor of Speech/Language/Hearing Sciences. B.S., M.S., Moorhead State University.
- Phyllis A. Harber**, 1972. Professor of Biology. B.A., Omaha University; M.S., Wyoming University; Ph.D., Iowa State University.
- Nancy S. Harris**, 1966. Associate Professor of Music. B.M., M.M., Julliard School of Music.
- James P. Hatzenbuehler**, 1973. Professor of Mathematics. B.S., Dickinson State College; M.S., Ph.D., Kansas State University.
- Gerhard K. Haukebo**, 1967. Vice President for Public Affairs and Professor of Education. B.S., M.A., Ph.D., University of Minnesota.
- John B. Holland**, 1966. Professor of Art. B.F.A., Texas Christian University; M.A., Harvard University; Ph.D., University of Minnesota.
- Christopher C. Hong**, 1968. Professor of History. A.B., Ottawa University; B.D., Westminster Seminary; Ph.D., University of Chicago.
- Rosalinda L. Hoops**, 1980. Professor of Business Administration. B.S., University of Philippines; M.S., Oklahoma State University; Ed.D., State University of New York, Buffalo.
- Michael W. Hughey**, 1979. Associate Professor of Sociology. B.A., University of North Carolina; M.A., Ph.D., Graduate Faculty of the New School for Social Research.
- Hi Sook Hwang**, 1969. Professor of French. B.A., Seoul National University; B.A., University of Tampa; M.A.T., Emory University; Ph.D., State University of New York, Buffalo.
- Charlotte Iiams**, 1980. Associate Professor of Education. B.A., University of California, Berkeley; M.A., Ph.D., University of Idaho.
- Gary L. Jacobson**, 1977. Associate Professor of Social Work. B.A., Yankton College; M.S.W., University of California, Berkeley.



**Ronald M. Jeppson**, 1981. Associate Professor of Mathematics. B.S., Weber State College; B.S., University of Utah; M.S., Ph.D., Montana State University.

**Arnold E. Johanson**, 1966. Professor of Philosophy; B.A., University of Minnesota; M.A., Ph.D., Yale University.

**Oscar W. Johnson**, 1965. Professor of Biology. B.S., Michigan State University; M.S., Ph.D., Washington State University.

**Clyde O. Kale**, 1977. Professor of Industrial Studies. B.S., University of Southern Colorado; M.Ed., Colorado State University; Ed.D., University of Northern Colorado.

**James M. Kaplan**, 1975. Associate Professor of French. B.A., University of Massachusetts; M.A., Ph.D., University of California, Berkeley.

**Ray M. Kawaguchi**, 1979. Assistant Professor of Sociology. B.A., University of California, Los Angeles; M.A., California State College, Los Angeles; M.A., Ph.D., University of California, Riverside.

**Marcia S. Kierscht**, 1976. Tri-College Provost; Director of the Summer Sessions; Associate Professor of Psychology. B.A., M.A., University of Iowa; Ph.D., George Peabody College.

**Daniel R. Knighton**, 1970. Professor of Economics. B.A., Franklin and Marshall College; Ph.D., University of North Carolina.

**Richard A. Kolotkin**, 1977. Associate Professor of Psychology. B.A., Wesleyan University; Ph.D., University of Minnesota.

**Nicholas Kowanko**, 1968. Professor of Chemistry. B.S., Ph.D., University of Adelaide.

**Dennis L. Krzyzaniak**, 1962. Professor of Chemistry. B.S., M.S., North Dakota State University.

**Lyle F. Laske**, 1965. Professor of Art. B.S., Wisconsin State University, Platteville; M.S., M.F.A., University of Wisconsin.

**Milton W. Legg**, 1970. Chairperson and Professor of Mathematics. B.S., M.A., University of Minnesota; Ph.D., New Mexico University.

**Benjamin M. Lin**, 1973. Professor of Computer Science. Diploma, Taipei Institute of Technology; M.S., University of Wyoming; Ph.D., University of Iowa.

**Gary L. Litt**, 1969. Professor of English. B.A., Jamestown College; M.A., University of Denver; Ph.D., University of Washington.

**Evelyn C. Lynch**, 1980. Professor of Special Education. B.S., University of Tennessee; M.S., Ed.D., Indiana University.

**Alan MacDonald**, 1983. Professor of Business Administration. B.S.B., University of Minnesota; M.B.A., University of South Carolina; Ph.D., University of Oregon.

**Dennis R. Mathiason**, 1966. Chairperson and Professor of Chemistry. B.S., Mankato State University; Ph.D., University of South Dakota.

**Don A. Mattson**, 1973. Professor of Mathematics. B.A., Wesleyan University; M.S., Ph.D., University of Wisconsin, Madison.

**Stephanie M. Mattson**, 1984. Assistant Professor of Chemistry. B.S., University of Minnesota-Duluth; Ph.D., California Institute of Technology.

**LaRae McGillivray**, 1978. Assistant Professor of Speech/Language/Hearing Sciences. B.S., M.S., Minot State College.

**Donald B. McRaven, Jr.**, 1972. Associate Professor of Art. A.A., B.A., and M.F.A., University of Minnesota

**B. Spencer Meeks**, 1962. Professor of Chemistry. B.S., University of South Carolina; Ph.D., Cornell University.

**Darrel M. Meinke**, 1972. Dean of Instructional Resources and Professor. B.S.Ed., M.Ed., University of Nebraska; M.A., Denver University; Ed.D., University of Nebraska.

**Lysle E. Meyer, Jr.**, 1966. Professor of History. B.A., Western Reserve University; M.A., Ph.D., Ohio State University.

**Michael G. Michlovic**, 1975. Professor of Anthropology. B.A., University of Pittsburgh; A.M., Ph.D., University of Illinois.

**Bette G. Midgarden**, 1979. Associate Vice President for Academic Affairs; Associate Professor of Mathematics. B.A., Concordia College; M.A., Ph.D., University of Nebraska, Lincoln.

**Phillip J. Mousseau**, 1968. Professor of Art. B.F.A., Minneapolis School of Art; M.F.A., Indiana University.

**David Myers**, 1972. Professor of Philosophy. B.A., University of Houston; Ph.D., University of Texas.

**Jack A. Neufeld**, 1967. Professor of Education. B.A., Goshen College; M.A., Ph.D., University of North Dakota.

**Patricia A. Neuman**, 1972. Counselor and Associate Professor. B.A., University of Minnesota; M.S.Ed., Chicago State University; Specialist Certificate, University of Minnesota.

**Hameed G. Nezhad**, 1984. Professor of Industrial Studies. B.S., Teachers Training College; M.S. East Tennessee State University; Ph.D., University of Pennsylvania.

**Gary S. Nickell**, 1982. Associate Professor of Psychology. B.S., University of Southern Colorado; M.S., Ph.D., Oklahoma State University.

- Albert H. Noice**, 1965. Professor of Music. B.M.Ed., M.M.Ed., McPhail College of Music; Ed.D., Colorado State University.
- Orlow P. Nokken**, 1958. Associate Professor of Health, Physical Education and Recreation. B.S., Moorhead State University; A.M., Colorado State College; Ed.D., University of Northern Colorado.
- David E. Olday**, 1975. Associate Professor of Sociology. B.A., Fenn College; M.A., Kent State University; Ph.D., Washington State University.
- Dorian J. Olson**, 1965. Professor of Accounting. B.A., Concordia College; M.A., Ph.D., University of North Dakota. CPA.
- William T. Packwood**, 1983. Professor of Education. B.A., Yale University; Ph.D., University of Minnesota.
- Robert R. Pattengale**, 1968. Chairperson and Professor of Music. B.M., Western Michigan University; M.M., Ph.D., University of Michigan.
- Janet M. Paulsen**, 1966. Professor of Health Education and Chemistry. B.S., Moorhead State University; M.S., Ph.D., Virginia Polytechnic Institute; M.P.H., University of Minnesota.
- Richard H. Pemble**, 1969. Chairperson and Professor of Biology. B.A., Simpson College; M.A., University of Montana; Ph.D., University of California, Davis.
- Robert L. Pender**, 1966. Professor of English. B.S., M.A., Memphis State University; Ph.D., University of Indiana.
- Eugene A. Philipps**, 1966. Professor of Economics. B.S., M.A., Ph.D., University of Illinois.
- Cynthia Phillips**, 1979. Associate Professor of Accounting. B.S.P.A., M.A., J.D., University of North Dakota.
- Robert E. Pratt**, 1982. Associate Professor of Counseling. B.S., University of Minnesota; M.A., Arizona State University; Ph.D., University of Connecticut.
- Mary A. Pryor**, 1965. Professor of English. B.A., Grinnell College; M.N., Yale University; M.A., Ph.D., University of Nebraska.
- Timothy L. Ray**, 1970. Professor of Art. B.F.A., University of Manitoba; M.F.A., University of Arkansas.
- Dennis L. Rhoads**, 1981. Associate Professor of Mathematics. B.S., Bradley University; M.S., Ph.D., University of Illinois.
- Phillip L. Rice**, 1974. Chairperson and Professor of Psychology. B.A., Fort Wayne Bible College; M.A., St. Francis College; Ph.D., Colorado State University.
- Glen W. Ringstad**, 1961. Associate Professor of Humanities and Multicultural Studies. B.S., Moorhead State University; M.A., San Francisco State College.
- Sandra Robin**, 1978. Associate Professor of Social Work. B.A., University of Minnesota; M.S.W., University of Denver.
- Derald D. Rothmann**, 1962. Professor of Mathematics. B.S., University of North Dakota; M.A., University of Kansas; Ph.D., University of Missouri.
- Sam H. Roy**, 1978. Coordinator of MBA Program and Associate Professor of Business Administration. B.S., M.B.A., Louisiana State University.
- George N. Sanderson**, 1976. Associate Professor of Accounting. B.S., M.S., University of North Dakota. CPA.
- Swaran S. Sandhu**, 1968. Professor of Sociology. B.A., B.T., M.A., Punjab University; M.A., Ph.D., Wayne State University.
- G. Theodore Schaum**, 1969. Professor of German. B.A., Princeton University; A.M., Ph.D., Indiana University.
- Davis A. Scott**, 1966. Professor of Speech/Language/Hearing Sciences. A.B., Grinnell College; A.M., Ph.D., Indiana University.
- John S. Sherman**, 1969. Associate Professor of English. B.A., M.A., University of Denver; Ph.D., University of Washington.
- Mary A. Shimabukuro**, 1966. Professor of Biology. B.S., University of Wisconsin; M.S., Ph.D., University of Minnesota.
- Donald A. Short**, 1969. Professor of English. B.S., M.S., Moorhead State University; M.A., Ph.D., University of Pittsburgh.
- Walter S. Sizer**, 1980. Associate Professor of Mathematics. A.B., Dartmouth College; M.A., University of Massachusetts; Ph.D., University of London.
- Kenneth R. Skjegstad**, 1966. Professor of Biology. B.S., Moorhead State University. Ph.D., University of California.
- Leonard J. Sliwoski**, 1982. Director of Small Business Center and Associate Professor of Accounting. B.S., University of Illinois; M.S.A., DePaul University.
- I. Kenneth Smemo**, 1961. Professor of History. B.S., Wisconsin State University; M.A., Ph.D., University of Minnesota.
- Andrew W. Smith**, 1968. Professor of Music. B.S., Indiana State College; M.M., Ph.D., University of Michigan.
- Rosemary L. Smith**, 1968. Professor of English. B.A., M.A., Ph.D., University of Washington.
- James R. Stevens**, 1966. Chairperson and Professor of Humanities and Multicultural Studies. B.A., McGill University; M.A., Ph.D., University of Wisconsin.

- Judith A. Strong**, 1969. Dean of Natural and Behavioral Sciences; Professor of Chemistry. B.S., State University of New York, Albany; M.A., Ph.D., Brandeis University.
- Li-Teh Sun**, 1982. Professor of Economics. B.A., National Chung Hsing University; M.S., Ph.D., Oklahoma State University.
- Cherlyn Sunflower**, 1983. Assistant Professor. B.A., M.Ed., University of Texas; Ph.D., University of Oklahoma.
- James A. Svobodny**, 1974. Associate Professor of Social Work. B.A., North Dakota State University; M.S.W., University of Nebraska.
- Linda A. Svobodny**, 1972. Associate Professor of Special Education. B.S., North Dakota State University; M.Ed., University of Nebraska; Ed.D., University of North Dakota; M.S.Ed., Moorhead State University.
- Marie E. Swanson**, 1970. Assistant Professor of Speech/Language/Hearing Sciences. B.S., M.S., Minot State College.
- James K. Swenson**, 1972. Professor of Business Administration. B.S., B.A., M.S., Ph.D., University of North Dakota.
- Wade T. Swenson**, 1974. Chairperson and Professor of Industrial Studies. B.S., Moorhead State University; M.A., Ball State University; Ed.D., Indiana University.
- P. Richard Szeitz**, 1966. Chairperson and Professor of Art. B.F.A., Layton School of Art; M.S., M.F.A., University of Wisconsin.
- Keith Tandy**, 1976. Professor of English. A.B., Morningside College; A.M., Columbia University; Ph.D., University of California, Berkeley.
- Marie A. Tarsitano**, 1975. Associate Professor of English. B.A., M.A., Penn State University; Ph.D., State University of New York, Binghamton.
- Arne D. Teigland**, 1968. Chairperson and Professor of Speech/Language/Hearing Sciences. B.A., Moorhead State University; M.A., Ph.D., University of Washington.
- William L. Thomas**, 1966. Professor of Health, Physical Education and Recreation. B.S., Valley City State College; M.A., Ed.D., University of Northern Colorado.
- Joseph H. Thorman**, 1968. Professor of Education. B.A., Jamestown College; M.A., Ph.D., University of Minnesota.
- Robert J. Tolbert**, 1963. Professor of Biology. B.S., B.A., Moorhead State University; Ph.D., Rutgers University.
- Joyce M. Torgerson**, 1971. Director of Master of Liberal Arts Program; Coordinator of American Studies and Professor of Humanities. B.A., University of North Dakota; M.A., Ph.D., Washington State University.
- John F. Trainor**, 1967. Chairperson and Associate Professor of Economics. B.A., College of St. Thomas; M.A., University of Minnesota; Ph.D., Washington State University.
- Mark L. Vinz**, 1968. Professor of English. B.A., M.A., University of Kansas.
- Ricardo F. Visus**, 1972. Professor of Music. Professional Certificate in Voice, Royal Conservatory of Music, Pamplona, Spain.
- A. Clyde Vollmers**, 1979. Professor of Business Administration. B.S., M.S., North Dakota State University; Ph.D., Michigan State University.
- James T. Wallen**, 1967. Assistant Professor of Mathematics. B.A., Wartburg College; M.A., University of Nebraska.
- Barbara M. Wasson**, 1972. Chairperson and Professor of Education. B.A., M.A., Ph.D., University of Minnesota.
- John B. Wasson**, 1971. Associate Professor of Special Education. B.S., M.A., Ph.D., University of Minnesota.
- Robert S. Weibust**, 1970. Professor of Biology. A.B., Colby College; M.S., Ph.D., University of Maine.
- Beverly A. Wesley**, 1974. Professor of Multidisciplinary Studies. B.A., Moorhead State University; M.A., North Dakota State University; Ph.D., University of Minnesota.
- Walter G. Wesley**, 1966. Professor of Physics and Astronomy. B.A., Texas Christian University; Ph.D., University of North Carolina.
- Ariyaratna M. Wijetunga**, 1981. Associate Professor of Mathematics. B.S., University of Sri Lanka; M.S., University of Denver; Ph.D., Colorado State University.
- Thomas D. Williams**, 1968. Professor, Counseling Center. B.A., M.A., University of Wisconsin; Ph.D., Washington State University.
- Helen K. Wilson**, 1972. Professor of Psychology. A.B., San Diego State College; M.A., Ph.D., University of Minnesota.
- Donald A. Wirries**, 1966. Associate Professor of Accounting. B.S., M.B.A., University of Detroit; J.D., University of North Dakota.
- Kathryn M. Wise**, 1981. Associate Professor of Biology. B.S., University of Dayton; M.S., Ph.D., University of Wisconsin Madison.
- William T. Woolwine**, 1966. Assistant Professor of English. B.A., University of Richmond; M.A., University of Arizona.
- Fike A. Zahroon**, 1966. Professor of Mathematics. B.S., Baghdad University; M.S., Ph.D., Ohio State University.
- Mary Lou P. Zit̄er**, 1985. Associate Professor of Social Work. B.A., University of Vermont; M.S.W., M.P.A., and D.S.W., University of Utah.

## INDEX

- Accounting courses 38
- Administration 48
- Admission 6
- Anthropology courses 47
- Art Education 15
- Auditing courses 10
- Biology courses 39
- Business Administration 12
- Business Education 17
- Certification/Licensure 9
- Comprehensive examination 11
- Computer Science 18
- Counseling and Human Development 20
- Curriculum and Foundations 23
- Deadlines for Application 6
- Early Childhood 23
- Economics courses 41
- Educational Administration 38
- Educational Theatre 21
- Elementary Education 23
- Employment Opportunities 6
- English courses 41
- Equal Opportunity Statement 55
- Examining committee 11
- Fees 10
- Final report 11
- Finance Courses 39
- Financial aid 6
- French courses 44
- Gifted Education 23
- Grades 9
- Graduate Assistantships 6
- Graduate courses 9
- Graduate Faculty 48
- Graduate programs 6
- Graduate Special status 7
- Health, Physical Ed, & Recreation courses 42
- History courses 44
- Housing 6
- Human Rights Statement 55
- Humanities courses 44
- International Students 6
- Languages 44
- Liberal Arts Courses 14
- Management Courses 40
- Marketing Courses 40
- Mass Communications courses 44
- Master of Business Administration 13
- Master of Liberal Arts 14
- Master of Science 15
- Mathematics courses 44
- Music Education 25
- Oral examination 11
- Philosophy courses 45
- Physics courses 46
- Physical Education courses 42
- Plan A,B 10
- Political Science courses 46
- Programs offered 6
- Project 10
- Proposed Graduate Course Plan 10
- Psychology 31
- Public & Human Service Administration 28
- Reading 30
- Reading/Language Arts 23
- Recreation courses 42
- Registration 9
- Research Components 10
- Residence 8
- School Psychology 31
- Senior registration 7
- Social Work courses 47
- Sociology and Anthropology courses 47
- Special Education 33
- Spanish courses 44
- Specialist in Education 38
- Specialist in School Psychology 38
- Speech 36
- Speech/Language Pathology and Audiology 36
- Supervision 23
- Theatre 21
- Thesis 11
- Time limitation 9
- Transfer credit 8
- Tri-College University 38
- Tuition 10
- Veterans 6

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