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The Bulletin, Undergraduate Catalog 1991-93, volume 91, number 5, September (1991)

Moorhead State University

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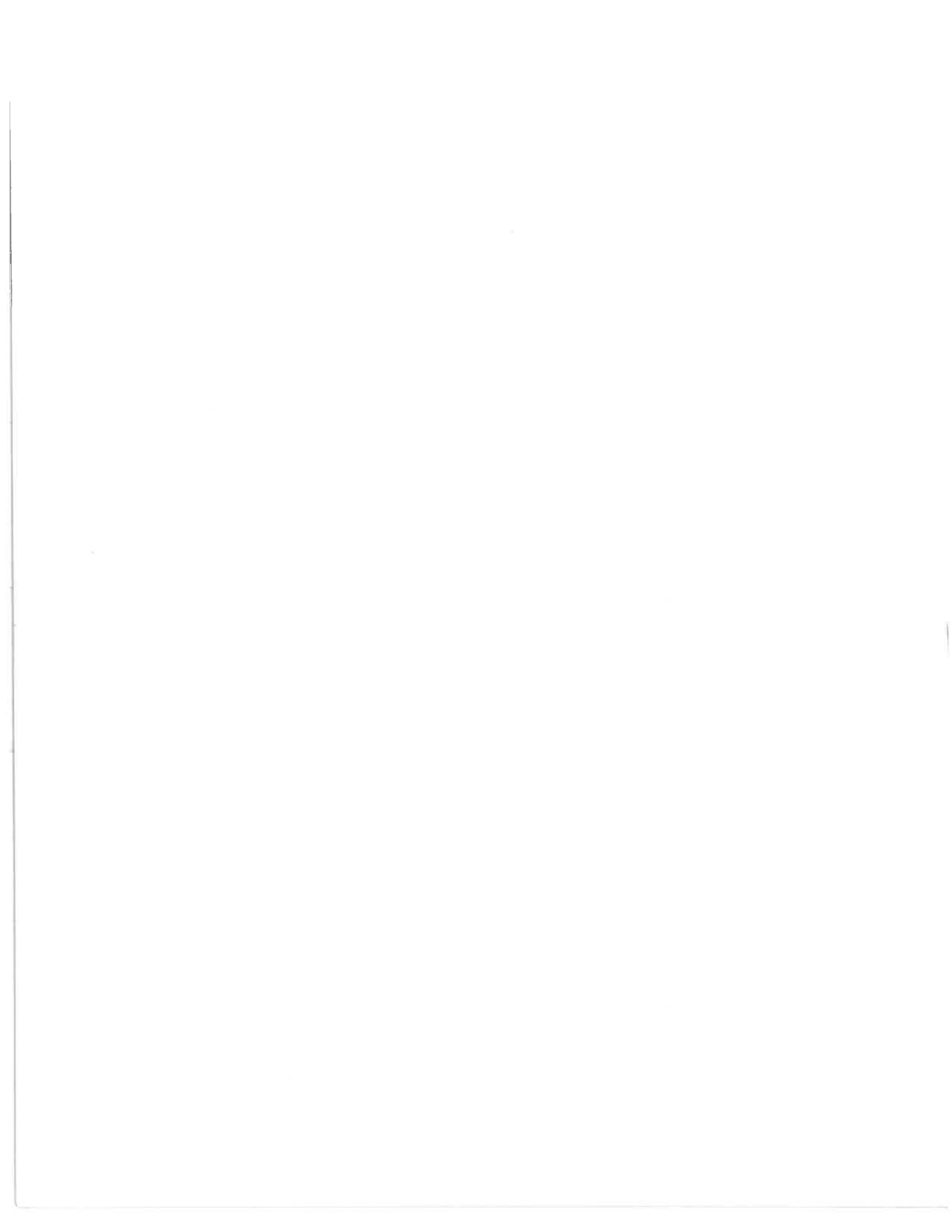
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MOORHEAD
STATE UNIVERSITY

U N D E R G R A D U A T E

C A T A L O G



Addendum to 1991-93 Undergraduate Catalog (The Bulletin)

SCHOLARSHIPS (Page 27)

Freshman Scholarship Program

Honors Apprenticeship

Applicants must be in the top 5 percent in high school class rank and 5 percent on standardized test scores. The scholarship includes tuition and fees up to 16 credits per quarter, renewable for up to 4 years. Freshmen must maintain a 3.25 GPA; the sophomore through junior year the GPA must be 3.5 or above to renew. Recipients apprentice in the academic department of their choice under the supervision of a faculty member. Special university honor activities are also planned. Deadline is January 15.

National Merit Finalist Award

This is a renewable scholarship of \$2,000 per year for up to 4 years with the maintenance of a 3.5 GPA. Documentation of finalist status is necessary for application. Deadline is June 30.

Freshman Academic Award

This award is for freshmen receiving ACT scores of 28 and above and top 7 percent high school rank, \$750. Applicants below the 7 percent rank are eligible for a \$500 scholarship. For those receiving ACT scores less than 28, a formula combining high school rank and ACT or PSAT scores is used to determine the award. Scholarship amounts are \$500 and \$750 and are not renewable. Deadline is March 15.

Achievement Award

This award is for freshmen in the top 25 percent of their academic class. Applicants should document achievement in areas such as academics, leadership and participation in school organizations and activities, and community service. Amount of the award is \$500 and it's not renewable. Deadline is March 15.

Special Talent Award

This award is for students possessing exceptional talent in music, art or speech-theatre. Contact specific departments directly for audition and requirements. Awards vary from \$200 to \$800 and require participation in departments that award the scholarship. It's not renewable. Deadline is March 15.

Upperclass Awards

Currently enrolled MSU sophomores, juniors and seniors with a GPA of 3.5 or above and a minimum of 32 MSU credits are eligible for awards ranging from \$100 to \$500. This award is not renewable. Deadline is March 15.

Community College

Eligible students who are transferring to MSU with an AA degree from a community college are eligible for these awards which are based on GPA: 3.75-4.0, \$350; 3.5-3.74, \$250. Deadline is March 15.

Minority Scholarships

Applicants include freshmen, transfers and currently enrolled MSU students who are American Indian or Native Alaskan, Hispanic/Mexican American, Black/Afro-American or Asian American/Pacific Islander. Criteria: For freshmen, top 50 percent of high school rank and score well on entrance exams; minimum GPA of 2.5 for transfers and upperclassmen. College potential, community and school activities and financial need are also considered in the awarding process. There is a special application for upperclass and transfer students. Freshmen can use the standard scholarship application. Awards range from \$300 to \$1,000 and are non-renewable.

Athletic Awards

Students must contact the Athletic Department. Awards are based on athletic talent, academic ability, financial need, stability of athlete and programmatic needs. Financial aid options are reviewed before athletic awards are offered. Awards range from \$200 to full tuition and fees. The average award for athletics is \$600 annually. Students must finalize the scholarship by signing the Financial Assistance Agreement with the coach, athletic director and parents. Students must apply for financial aid and meet all required deadlines. Athletic awards are usually a combination of scholarship and financial aid.

Athletes must meet conference and NAIA requirements for participation. Both men's and women's athletics provide handbooks on conference rules and regulations.

The following also award scholarships through the MSU Foundation:

Fargo Eagles Aerie #153
Fargo Teamsters Local #116
West Fargo VFW Post #7564
Fargo American Legion Post #2

Applications are available in the MSU Scholarship Office.

Also, if you or your parents work in a company, inquire about possible company scholarship funds. Many large companies award scholarships to students who are interested in or have demonstrated talent in fields related to the company. A list of these can be found in the Counseling Center.

The Scholarship Office has a computer software program available to students looking for scholarship possibilities outside of the university. The program takes about 45-60 minutes to finish and will provide a list of organizations and agencies that offer scholarships based on the student's personal profile. It will also print individual letters, in the student's name, requesting a scholarship application.

There are also other places you can look for financial aid. It may be that your major field offers special aid to students showing talent in the area. You can also try contacting your local American Legion, Lions, Elks and PTA organizations. Organizations like these may have scholarships recognizing leadership or talent, or simply to help a local student get an education. State vocational rehabilitation offices usually have funding available for students with disabilities. Just contact the office in your area for details. The Veterans Administration has money available for eligible veterans and reserve members.

BUSINESS EDUCATION (Page 64)

Secretarial Science A.S. Degree (96 credits)

Liberal Arts (45 credits)

Freshman English—one year

Other Liberal Arts Courses, including a minimum of 6 credits each in areas B, C, D & E.

Requirements in Accounting and Business Education (23 credits)

Acct 229 Prin I: Finc (4)

Acct 230 Prin II: Finc (4)

BEd 207 Business Communications (4)

BEd 212 Adv Keyboarding/WP (2)

BEd 260 Microcomp/Bus App (3)

BEd 323 Secretarial Administration (3)

BEd 414 Adv Word Proc/Trans (3)

Additional Courses in Business Education (17 credits from courses listed below)

BEd 220 Shorthand I (4)

BEd 221 Shorthand II (4)

BEd 222 Shorthand III (4)

BEd 241 Intro to Lotus (2)

BEd 242 Work Experience I (1)

BEd 243 Work Experience II (1)

BEd 244 Work Experience III (1)

BEd 315 Consumer Education (4)

BEd 320 Records Management (4)

BEd 330 Office Management (4)

BEd 420 Int Micro Bus App (3)

BEd 469 Internship (1-4)

BEd 470 Independent Study (1-4)

DEPARTMENT OF SPEECH/LANGUAGE/ HEARING SCIENCES (Page 201)

SLHS 347 Introduction to Augmentative and Alternative Communication (3) (F)

A discussion of the nature and purposes of augmentative and alternative communication (AAC) for non-speaking persons of all ages. Designed to familiarize students with specific components of AAC systems suitable for clients with either congenital or acquired disorders. Exposure to basic assessment and intervention procedures in the clinical setting and overview of assistive technology. Prerequisite: SLHS 204.

WOMEN'S STUDIES (Page 203-204)

Hist 375 Women in U.S. History (3)

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Frequently called phone numbers

Academic Affairs	236-2762
Administrative Affairs	236-2156
Admissions Office	236-2161
Bookstore	236-2111
Career and Placement Services	236-2131
Continuing Education	236-2183
External Studies	236-2182
Financial Aid Office	236-2251
Health Center	236-2211
Housing & Security Office	236-2118
Information	236-2011
Registrar's Office	236-2565
Scholarship Office	236-2555
Student Affairs Office	236-2171

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Moorhead State University is committed to providing equal education and employment opportunities to all persons and does not discriminate on the basis of race, religion, color, creed, veteran's status, national origin, sex, including sexual orientation/ affectional preference, age, marital status, physical and mental disability, status due to receipt of public assistance, or any other group or class against which discrimination is prohibited by Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Minnesota Statutes Chapter 363, and other applicable state or federal laws. Inquiries regarding compliance should be referred to Barbara Seiler, Affirmative Action Officer, 236-2229.

The university calendar is subject to modification or interruption due to occurrences such as fire, flood, labor disputes, interruption of utility services, acts of God, civil disorder and war. In the event of any such occurrences, the university will attempt to accommodate its students. It does not, however, guarantee that courses of instruction, extracurricular activities or other university programs or events will be completed or rescheduled. Refunds will be made to eligible students in accordance with State University Board policy.

ACCREDITATION

North Central Association Undergraduate Program

Moorhead State University is accredited by the North Central Association of Colleges and Secondary Schools to offer undergraduate four-year college programs leading to the Bachelor of Science and the Bachelor of Arts degrees.

Graduate Program

Moorhead State University is accredited by the North Central Association of Colleges and Secondary Schools at the master's degree-granting level and the Education Specialist in School Psychology.

National Council for Accreditation of Teacher Education

Moorhead State University is accredited by the National Council for Accreditation of Teacher Education as a five-year teacher education institution offering the degrees of Bachelor of Science and the Master of Science in Education.

American Chemical Society

Moorhead State University's Chemistry Department is on the approved list of the American Chemical Society.

Council on Social Work Education

Moorhead State University is accredited by the Council on Social Work Education to offer a Bachelor of Social Work degree.

National Association of Schools of Art and Design

The Moorhead State University Department of Art is an accredited institutional member of the National Association of Schools of Art and Design. Moorhead State offers the Bachelor of Fine Arts degree.

National Association of Schools of Music

Moorhead State University's Music Department is accredited by the National Association of Schools of Music, and offers the Bachelor of Music degree.

National League for Nursing

Moorhead State University's nursing program is accredited by the National League for Nursing, Board of Review, Council of Baccalaureate and Higher Degree Programs, and offers the Bachelor of Science in Nursing degree.

American Speech-Language- Hearing Association

Moorhead State University's graduate program in Speech-Language Pathology in the department of Speech/Language/Hearing Sciences is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association.

All provisions within this Bulletin are subject to change without notice.

INTRODUCTION

Moorhead State University, with an enrollment of over 9,000 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 in 1921, when it became Moorhead State Teachers College, authorized to offer the four-year degree of Bachelor of Science in Education; in 1946, when the Bachelor of Arts was added; 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 22 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 Faculty

There are more than 350 members of Moorhead State University's faculty. Over 60 percent of them have doctorates or other terminal degrees. Class sizes with these faculty members average 21 students to one faculty member.

Student Enrollment and Retention

Fall quarter enrollment reached 9,194 in 1990 (latest available data). This number includes 2,160 students living in campus residence halls, 7,526 full-time students and 1,668 part-time students.

Each fall for the past five years, an average of 1,448 new freshmen and 731 new transfer students have entered the university to enroll in degree programs or begin curricula that may eventually be completed at other institutions. Typically, more than 800 other new students enter MSU during the winter, spring and summer quarters.

For information about the academic progress of students and the numbers who complete degrees consult the Registrar's Office.

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 124,000 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.

ACADEMIC PROGRAMS

Baccalaureate Degrees

The four-year degrees available from Moorhead State University include the Bachelor of Arts, Bachelor of Science, Bachelor of Science in Nursing, Bachelor of Music and the Bachelor of Social Work. Each requires the satisfactory completion of 192 credits of college courses and includes 64 credits in liberal arts, from 48 to 96 credits in a major concentration and the remainder in electives. While no minor is required, you may choose from more than 60 possible minor programs. Information about the liberal arts requirement may be found in the Academic Information section and requirements for the various majors and minors are listed in the Departments and Curricula section of this catalog.

Liberal Arts and Professional Majors

Liberal Arts and other non-teaching major programs include:

Accounting
American Studies
Anthropology
Art
Biology
Business Administration
Chemistry
Community Health
Computer Information Systems
Computer Science
Criminal Justice
Cytotechnology
Economics
Energy Management
English/Mass Communications
Finance
French
German
History
Hotel-Motel-Restaurant Management
Individualized Major
Industrial Chemistry
Industrial Illustration
Industrial Technology
International Business
Languages
Legal Assistant
Management
Marketing
Mass Communications
Mathematics
Medical Technology
Music
Music Industry
Nursing (open to registered nurses)
Office Administration
Philosophy
Physical Education
Physics
Political Science
Psychology
Social Work
Sociology
Spanish
Speech Language & Hearing Science
Speech Communication
Theatre

Education Majors

Bachelor of Science degrees with teaching majors are offered as preparation for teaching at the elementary and secondary levels. Elementary Education majors must select a minor area of concentration or specialization. Education majors will choose one of the following specific academic areas:

Art Education
Biology (Life Science)
Business Education
Chemistry (Physical Science)
Early Childhood Education
Elementary Education
English
French
German
Health
Education
Industrial Education
Mathematics
Music
Physical Education
Physics (Physical Science)
Social Studies
Social Work
Spanish
Special Education
Speech Communication/Theatre Arts
Speech, Language and Hearing Science

Bachelor of Fine Arts

This 234 credit degree is offered as a professional program in the visual arts. See Art Department.

Business Studies

Students interested in pursuing a business field will be identified as pre-business majors. Prior to completion of 90 credits, students will complete an application for admission to a specific business major. See Accounting, Business Education or Business Administration sections of the Bulletin for further details.

Pre-Professional Studies

Not all students complete their degrees at MSU, but many find it convenient to complete the first few years of college here before transferring to other institutions for advanced specializations. Such students are assigned to faculty advisors with knowledge of these advanced specializations who work closely with both individual students and institutions where training will continue after transfer. Special programs developed to assure adequate preparation for continued study include:

* Agriculture
* Architecture
Athletic Training
Chiropractic
Dentistry
* Engineering
Foreign Service
Forestry
* Geology
Government Service
* Home Economics
Law

Medicine
 Meteorology
 Mortuary Science
 Nursing
 Occupational Therapy
 Optometry
 *Pharmacy
 Physical Therapy
 Theology
 Veterinary Science
 *Wildlife Management

* Covered Degree Programs

In cooperation with North Dakota State University, MSU students can take the first three years of the seven programs designated with asterisks (two years in pharmacy and engineering) at Moorhead State University before transferring to NDSU for completion of a degree.

Covered Program means any undergraduate major or degree program offered by the other school but not by students' home school. The other school will award a degree in a Covered Program to students who successfully complete all requirements for that degree and who enroll at that school for at least the final year of course work with the exception of Engineering and Pharmacy where MSU students must transfer after two years at the home institution.

The designation of Covered Program expressly allows for the possibility that students may spend three years on the home campus, one on the degree-granting campus (again with the exceptions of Engineering and Pharmacy). Following is a list of Covered Programs:

Covered Programs Available to NDSU Students at MSU:

American Studies

Art (ceramics, graphics and design, print making, sculpture)

Criminal Justice

Education (business, elementary, health, industrial and special)

Industrial Technology, Industrial Illustration

Energy Management

Music (stringed instruments)

Philosophy

Social Work

Speech, Language and Hearing Science

Covered Programs Available to MSU Students at NDSU:

Agriculture (agricultural economics, agricultural education, agricultural mechanization, agronomy, animal science, bacteriology, cereal chemistry and technology, entomology, horticulture and forestry, plant pathology, soils, veterinary science)

Architecture

Engineering (agricultural, civil, construction management, electrical, electronics, bioengineering, industrial, mechanical)

Geology

Home Economics (child development and family relations, design, food and nutrition, home economics education, consumer services, home management and family economics, textiles and clothing)

Pharmacy

Wildlife and Fisheries Biology

The major advantages of this arrangement are that Minnesota residents can use scholarships and loans available only for this state and that professional courses at NDSU can begin immediately through the Tri-College University student exchange program instead of waiting until the third or fourth year.

Two-Year Associate Degree

Moorhead State University offers programs leading to the two-year Associate in Arts (A.A.) or Associate in Science (A.S.) degree. Each requires 96 credits for completion but is so designed that students may continue to study for a baccalaureate degree should educational plans change. The curricula include a combination of liberal arts courses, and, for the A.S., one area of specialization. Required courses are listed under the respective Departments of Study for the following Associate Degree programs:

A.A. Degree

Liberal Arts

A.S. Degree

Career Education (see Multidisciplinary Studies)
 Medical Records Technology
 Secretarial Services

Graduate Studies

Graduate students at Moorhead State University may earn the Master of Arts in Studio Art or Music, Master of Business Administration (MBA), Master of Liberal Arts (MLA), Master of Science or the Ed. Specialist degree. The Master of Science programs are available in Elementary Education, Reading, Special Education, Counseling and Human Development, Speech Pathology, and the M.S. and Ed. Specialist in School Psychology. The education-based M.S. may also be earned with majors in Art, Music, or Educational Theatre. The Master of Science in Public and Human Service Administration and the M.S. in Computer Science are available. Majors in Educational Administration at the M.S. and Ed. Spec. Levels are offered through the Tri-College University. Complete information on graduate programs is provided in a separate Graduate Bulletin available from the

Moorhead State University Office of Graduate Studies. Questions related to graduate programs should be directed to that office.

Teaching License Programs

Many enroll at Moorhead State University in programs that will provide professional licenses in various fields of education. Upon completing one of these programs, students should apply for licensure through the Office of the Registrar. If the license program is combined with study for a postgraduate degree, students must meet admission requirements established by the Office of Graduate Studies.

Elementary or Secondary Teaching

Those who hold baccalaureate degrees without teaching license may earn a Bachelor of Science degree from Moorhead State University or qualify for license by following procedures in the section on Education programs.

Licensure in Special Fields

Licenses for several specialties in education can be earned by persons who hold valid teaching licenses. Such licensure is made by the State of Minnesota on recommendation by the university after completion of a program approved by the State Department of Education. Study for licensure may be combined with an undergraduate or graduate degree program if required courses are offered at the appropriate undergraduate or graduate level.

The following special licensure programs are offered at Moorhead State University:

Athletic Coach
Developmental/Adapted Physical Education
Early Childhood Education
Early Childhood Special Education
Elementary Remedial Reading
Emotionally/Behaviorally Disordered
English as a Second Language
Kindergarten
Mild to Moderate Mentally Handicapped
Mildly Handicapped
Moderate to Severe Mentally Handicapped
Pre-Kindergarten
School Psychologist
School Social Worker I
Secondary Developmental Reading
Secondary Remedial Reading
Specific Learning Disabilities
Speech Correction

Because of variations in specific requirements for each license, candidates should first contact the Education

Department for information and continue to work closely with an advisor. Minnesota licensure does not guarantee reciprocal licensure in other states. Therefore, students who intend to teach in other states should contact licensure boards in those states as early as possible to determine appropriate course work for certification.

State University Common Market

Students at Moorhead State University may attend another Minnesota State University —Bemidji, Mankato, Metropolitan, Southwest, St. Cloud or Winona —under provisions of a Common Market agreement outlined below:

Students secure a Common Market passport application from the Registrar's Office, list preferred courses with the signed approval of the faculty advisor, and return the passport application to the Registrar.

Eligibility is limited to sophomores and above with cumulative grade point averages of at least 2.0, and participation is limited to one quarter of attendance.

The passport and a transcript of students' records will be forwarded to the host university, which will send an acceptance notice and registration instructions to the student.

No admission or matriculation fee is charged, and credits earned at the host university will be considered as resident credits and will be included in students' grade point averages at the home university.

Tri-College University

MSU belongs to a cooperative arrangement with Concordia College (Moorhead) and North Dakota State University (Fargo) through which students may take courses at the other colleges without paying any additional tuition or fees. (See Covered Programs) At Concordia, MSU students may take one course per term if that course is not offered at Moorhead State. No limits are placed on the number of courses MSU students can take at NDSU. At NDSU, students may take as many courses each term as needed to satisfy Covered Programs.

Tri-College also offers regular bus service among the three campuses as well as reciprocal parking privileges. A comprehensive cooperative arrangement among the libraries gives students and faculty direct access to the resources of all three libraries. The Tri-College University also sponsors a Center for Environmental Studies. One may earn a master's or specialist degree in educational administration through the Tri-College University (see Graduate Bulletin).

Reserve Officers Training Corps Program

Both Army and Air Force ROTC offer four-year programs that provide students with leadership and management experience that is found in few other college courses. The ROTC program not only offers an opportunity for a military career, but also provides academic credit and a living allowance of up to \$1,000 each year (during the Advanced Course). Scholarships are offered for those who qualify.

Army ROTC has a program that allows students to serve in the National Guard or Reserve while earning a commission. For more information call 701-235-7575. Air Force ROTC prepares selected students with the opportunity to earn an active duty Air Force Officer's commission while attending college. For more information call 701-237-8186.

SPECIAL PROGRAMS

Individualized Major

Students who wish to develop a multidisciplinary major built around a chosen theme may do so with the help of a faculty advisor. Such a major consists of at least 72 credits of which 28 to 42 credits come from one department or rubric. Thirty-six of the 72 credits in the major must be 300- and 400-level courses. No more than 24 previously completed credits should be included in the plan for this type of major.

Each student's plan for an individualized major is unique and will require careful consideration and ultimately, an evaluative judgment. Early planning of the individualized major with the student's academic advisor is strongly recommended.

For further information, contact the Coordinator of Individualized Majors, Owens 205.

The New Center for Multidisciplinary Studies

The New Center for Multidisciplinary Studies is an alternative academic program for freshmen and sophomores. The Center's mission is to provide courses in liberal arts which meet the university's requirements for a broad foundation of learning in English composition, the natural sciences, social sciences, humanities, and communications and symbolic systems. Through these courses and supplemental electives, students integrate knowledge, skills and values. "Multidisciplinary" means that the Center's curriculum includes courses from a variety of academic subjects.

Students are encouraged to identify their career goals based on knowledge of their strengths, interests and opportunities. Diagnostic and interest testing, as well as three courses, assist students in making decisions. If these

goals require basic skills in reading, writing or math, which have not yet been developed, the Center can provide assistance.

Multidisciplinary Studies uses an outcomes-based approach to learning. Credit is awarded for objectives mastered. Since traditional A-F grades are not appropriate for this kind of instruction, students' progress is measured by number of credits earned. To remain in good academic standing, students must satisfactorily complete 70 percent of the credits they attempt.

A variety of criteria is used by the Admissions Office to select students for Multidisciplinary Studies. Students' talents, accomplishments and interests are weighed more heavily than high school rank or entrance exam scores. Students who demonstrate the ability to succeed in college but would be excluded by the traditional admission requirements are invited to apply.

Students are considered for admission to the New Center when their file is completed and they have returned a New Center Questionnaire. The Admissions staff reviews all materials and determines whether to admit or deny admission to the New Center.

External Studies

Part-time adult students may choose to become a member of the External Studies program. This program can help bridge the barriers and hurdles that sometimes hamper older than average students who have off-campus responsibilities to attend to while they go to college. It is an adaptable plan for nontraditional students who are unable to consistently attend conventional daytime classes. Services are designed to provide help with some of the non-academic barriers that may present problems for people who are not routinely on campus during regular business hours. External Studies students generally take evening, Saturday and off-campus classes, plus a few External Studies packaged courses and some daytime classes. External Studies advisors understand that dropping in to see an advisor can be difficult, and do much of the advising by mail and telephone.

Admission requirements and degree requirements are the same for all Moorhead State University students, both traditional and nontraditional.

National Student Exchange

Moorhead State University holds membership in the National Student Exchange, a cooperative relationship among some 100 colleges and universities in the United States and its territories. Through the NSE, students may spend up to one full year in residence at a participating college as an exchange student. MSU students have recently been placed at the University of Northern Colorado, Hunter College-New York, Portland State University, Eastern Connecticut State University, East

Stroudsburg University of Pennsylvania, and the University of New Mexico. The largest single benefit of the NSE is the privilege of paying tuition at the in-state rather than out-of-state rates.

Students wishing to participate in the exchange for the following year, should meet a March 1 deadline. Limited placements are available after the deadline. Contact the Admissions Office, Owens 104, for more information.

Internship

An internship is a supervised work experience for up to 16 college credits. The general objective of this program is to allow students to gain applied experience that would not otherwise be possible in the classroom and to reinforce the choice of one's major field of study. (It is generally available only to junior and senior students.) Students must return to school for at least one academic quarter following the internship experience. A variety of internships are available in local, state and federal government agencies, public service organizations and private business. Interested students should address inquiries to internship advisors in the academic departments of their choice or to the university internship coordinator in the Career and Placement Services Office.

INTERNATIONAL STUDY OPPORTUNITIES

A variety of opportunities exist for students to study abroad, but detailed planning is essential in order for a successful experience. Students must consult with their faculty advisors if they wish to receive credit for their international study. The following are some of the opportunities available to Moorhead State students:

Student Teaching Abroad

Each year the Student Teaching Abroad program makes it possible for 70 students to spend one quarter abroad completing their student teaching. Approximately one-half of these students are from Moorhead State. Sites are located in Africa, Asia, Europe, South America and Australasia. Contact Howard Freeberg, Education Department.

Oxford Program

Moorhead State sponsors study in interdisciplinary work in the humanities at the Centre for Medieval and Renaissance Studies, Oxford, England. Students may participate for a full academic year or half-year, earning credits awarded by Moorhead State applicable to selected majors and liberal arts requirements. The program is coordinated on campus through the Office of International Programs.

Eurospring

Students may earn 16 humanities credits applicable to liberal arts (or other areas by arrangement) by studying at the Centre for Medieval and Renaissance Studies,

Oxford, England, for five weeks, and participating in a three-week tour of centers of Western civilization in Europe. Eurospring is offered annually in the spring. Contact the Office of International Programs.

Portsmouth

A one-for-one student exchange with Portsmouth Polytechnic, Portsmouth, England, allows students the opportunity of exchanging with their counterparts for one academic year. Students pay tuition at their home institution. Available in a limited number of disciplines. Contact Dean David Nelson or Dean Judy Strong.

China

Students may study Chinese language and culture at Nankai University, Tianjin, China, for a full academic year. Contact Dean Robert Badal.

Japan

The Minnesota State University System operates a campus in Akita, Japan. American students study Japanese language and culture, and other general studies alongside their Japanese peers. Students may study for one, two or three quarters.

Oslo Year

Students who complete one year of college-level study in Norwegian language may participate in a semester or entire year of study at the University of Oslo, Norway. Students may earn up to 48 credits in Norwegian language and culture or other subjects. Contact Ken Smemo, Scandinavian Studies.

International Internships

Students may have the opportunity to complete their internship requirements abroad with the permission of the academic department. Internships are available in England, Germany, Belgium, Spain, France and Australia.

For further information about these and other study abroad opportunities, contact individual program directors or the Office of International Programs. A reference library with directories, brochures, maps and other materials for study and travel abroad is located in Flora Frick 154.

FACILITIES AND SERVICES

Residence Halls

With nine residence halls offering a variety of living arrangements, there is a capacity for 2,200 students to live on campus. Each of the halls is designed in floor units of 25 to 40 students under the direction of a student resident assistant.

Room furnishings include draperies, lamps and all necessary furniture. Students provide linen, blankets, towels, pillows and personal or decorative items.

Each hall is under the supervision of a Resident Director, but social, recreational and cultural activities are conducted by student government through constitutions adopted by the residents.

Following is a list of halls with dates of construction and student capacity:

Ballard Hall (1950) 174
Dahl Hall (1958) 361
Snarr Hall (1963-67) 489
Grantham Hall (1965) 204
Nelson Hall (1966) 398
Holmquist Hall (1969) 200
Neumaier Hall (1971) 403

No campus housing is provided for families.

Dining Facilities

The university offers complete cafeteria service in Kise Commons. Meals are provided for all students living in campus residence halls, depending on the meal plan that they select. Off-campus students, faculty, visitors and guests are welcome to use the dining facilities. Several dining options are available, including 10, 14 or 21 meals per week; coupon booklets; and single meal purchase. Questions about the meal plans can be referred to the dining service office in Kise Commons, 236-2500. Off-campus student meal contracts are available through the Business Office in Owens Hall.

Student Union

Comstock Memorial Union is the community center of the university and is an integral part of its educational purpose.

Comstock Union offers a wide variety of services to students, faculty, administrators, alumni and their guests. It also provides a place for individuals to get to know and understand one another through informal association outside the classroom.

Funding for the CMU is, in part, provided by Student Union/Activities fees. The remaining income needed to support the union operation derives from service areas within the Union. Those services that are funded and administered by the Union are the Recreational Center, Outing Center, Design Center, The Exchange, Copies Plus, Main Office and the Underground, a non-alcoholic club and dance area.

Additional Union services include the Union Station Snack Bar, Deli, Bakery, meeting rooms, video rentals, lounges, telephones, vending machines, a multi-purpose ballroom and an extension of the MSU Bookstore—the EtCetera Shop.

Other offices and organizations located in the Union are: KMSC (campus radio), the Advocate (campus newspaper), the Student Senate, Campus Activities Board, New Student Orientation, Associate Dean of Students, Student Organization Development Center, Student Organization office area, Services to Students with Disabilities, Multicultural Center, Emerging Leadership Program, Job Service, and Career and Placement Services.

During the 1991-92 academic year, the CMUnion will undergo significant remodeling and renovation. Services may be temporarily suspended or moved for periods of time. Please watch for posted changes in service, location and hours of operation.

Livingston Lord Library

Livingston Lord Library has 350,000 volumes and is open 94 hours a week. Seating for about 850 students is available which provides a variety of study conditions. Facilities include microform collections and reading equipment, the Northwest Minnesota Historical Archives Collection, government document collection, copying equipment, listening and viewing equipment with collections of audio-visual materials. A computer catalog makes the collections easily accessible. Extensive loan arrangements make the collections of other libraries available to our students.

Science Facilities

Hagen Hall is the home for chemistry, physics and industrial studies with complete laboratory, classroom, office and research facilities. King Biology Hall features the most modern concepts for study and research, including greenhouses, animal rooms, culture room, herbarium, study-museum and laboratories.

Planetarium

Located in Bridges Hall and containing a Spitz Space Projection System 512, the Planetarium provides an environment for observing the appearance and motions of the sky at various seasons and from different locations. In

addition to the primary star projector, auxiliary projections and equipment are used to produce a variety of additional effects lending realism and atmosphere to the presentations.

In addition to its use by astronomy classes, the planetarium provides demonstrations for elementary and secondary school classes and for the general public.

Regional Science Center

The Regional Science Center is a program of Moorhead State University that provides programs in science, technology and environmental education for K-12 students, K-12 teachers, college students and the general public. The Center's programs are characterized by a heavy emphasis on providing activities that allow people to be actively involved in their learning. In 1990, the Center had more than 18,000 people take part in its programs.

The Center operates two sites where most of its programming occurs. The Buffalo River site is a 300-acre outdoor classroom adjacent to Buffalo River State Park, 16 miles east of Moorhead on Highway 10. The other site is a planetarium which is located in room 167 of Bridges Hall on the MSU campus. The Center maintains its offices in Hagen 201B on the MSU campus.

University students are involved in the Center as interns, Honor Apprentices, part-time employees and volunteers; the Center has over 150 volunteers, many of whom are students. Students have an opportunity to develop many skills working with the Center, including developing publicity materials to advertise Center programs, as well as working with K-12 students in an outdoor setting and/or in planetarium programs.

University Bookstore

The newly remodeled and expanded university Bookstore is located in the east wing of MacLean Hall. Required textbooks for classes are located in the lower level of the new addition. On the first floor of the Bookstore there is a large general trade book department that offers a wide selection of hardcovers and paperbacks for your reading enjoyment. Also on the first floor, you will find school supplies, clothing, greeting cards, computers and gift items. Directly next door to the Bookstore is the convenience store. The convenience store offers a large variety of items such as sandwiches, salads, bakery goods, fountain and bottled drinks, juices, coffee, slush drinks, candy, magazines, ice cream novelties and snacks. Seating is available in the connecting link between MacLean and Flora Frick Halls.

Center for the Arts

The Departments of Art, Music and Speech-Theatre occupy this building. It includes a 900-seat auditorium, a

seven-story stage area, an 80-foot gallery, a 316-seat thrust stage theatre, music recital hall, band rehearsal room, electronic music studio, record listening room, 32 individual music practice rooms, two scene shops, drama rehearsal room, dressing rooms, costume shop, classrooms, offices and studios for painting, drawing, design, glass blowing, ceramics, sculpture, graphics, crafts and heat processing. The Center is the scene of year-round cultural activity, including the Performing Arts Series, musical performances and recitals, photographic and art exhibits, the Moorhead State University Theatre, the Straw Hat Players summer theatre company and the Opera Workshop.

Alcohol/Drug Awareness Program

Moorhead State University does not encourage the use of, and cannot condone the misuse of, alcoholic beverages or other drugs. The university does encourage the responsible use of alcohol and supports those students who wish to abstain. However, MSU respects the rights of those of legal age to consume alcohol off campus.

Although university regulations are subject to change, the use or possession of alcoholic beverages or illegal drugs on the university campus, in the residence halls or at university-sponsored events on campus is prohibited by Minnesota State Law. Students caught selling alcohol or illegal drugs on campus will be subject to disciplinary action as set forth in the Student Handbook section "Disciplinary Procedures." Drug and alcohol violators may be referred to the Alcohol/Drug Awareness Coordinator.

To assure that state programs and service objectives are met (within the framework of the MSU policy statement governing alcohol use), the university has designated a Coordinator of Chemical Dependency Programs and Services. Under the guidance and support of a faculty/student advisory board, this individual will coordinate campus-wide services dealing with alcohol and other substance use/abuse. Contact the Coordinator at Hendrix Health Center.

Counseling and Personal Growth Center

The Counseling and Personal Growth Center provides a setting and staff where students may discuss personal or academic concerns. The Counseling Center staff assists students with their personal development in such areas as career and educational planning, personal and social adjustment, and study skills improvement. Counseling Center services include individual counseling, life skills classes, career and personality testing, free peer tutoring, study skills programs, special programs for returning adult students, and a comprehensive career library containing current career and educational information and related computer software.

Services to Students with Disabilities

All programs and services at Moorhead State University are accessible to disabled students, as mandated by Section 504 of the Rehabilitation Act of 1973. Possible accommodations include, but are not limited to: classroom accessibility, adaptive testing, notetaking services, readers, taped textbooks and tutoring services.

Questions or requests for services should be directed to the Coordinator, Services to Students with Disabilities, Comstock Memorial Union, 218-299-5859, or the MSU 504 Coordinator, Comstock Memorial Union, 218-236-2081. The campus TDD phone number is 218-236-3697.

Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic provides service to students, faculty and staff members as well as their families, and children and adults from the community and surrounding area. Services include detailed diagnostic evaluations, consultation and therapy, and referral to other agencies as individual needs are indicated. The Clinic is located in Grier Hall. Inquiries should be addressed to: Speech-Language-Hearing Clinic, 236-2286.

Veterans Office

The Veterans office provides counseling, GI Bill certifications and tutorial assistance and is concerned with recruiting veterans and veterans' dependents. Interested veterans should call 236-2876, or stop by the library, room 201C between 7:30 - 11:30 a.m.

Career and Placement Services

Although leaving college and finding a career may seem far away, the staff of Career and Placement Services wishes to serve students as soon as they arrive. They help plan careers, not merely assist with the job search. The office provides a wide variety of services for students and alumni in the career awareness and development areas. Resources available include company and governmental job descriptions, projections on the job market, and a career information library open to students, faculty and alumni. In addition, staff members are available to speak to classes or provide seminars on careers for particular majors or for college graduates in general.

Internship coordination is a special function of the office. A library of internship directories and files is available to students. Planning for internships before the junior year is advised and an orientation slide presentation is available to students seeking initial information concerning the internship program.

The office continues to provide placement services for graduates and alumni of MSU. These placement services consist of on-campus interviewing, notification of job vacancies and maintenance and upkeep of a credential file. Additional placement services deal with job inter-

viewing techniques, resume and letter writing, and the development of a job search strategy and are available to all MSU students and graduates.

All seniors are encouraged to register with Career and Placement Services and begin a credential file whether they will be seeking employment or going on to graduate school since the recommendations in the file may be invaluable at a later date. There is no charge for initial registration with the Career and Placement Services provided the registration is completed prior to graduation. Alumni will be charged a \$25 annual registration fee for active placement services.

Moorhead State University Foundation

Incorporated in 1970, the Foundation serves as the umbrella for all development and fund-raising programs of the university. Headed by a 32-member board comprised of business and professional leaders, faculty, administrators, and alumni, the Foundation coordinates all MSU fund raising and acknowledgment of gifts and grants. Its primary goal is scholarship contributions.

Alumni Association

The purpose of the Alumni Association is to promote and provide services to the university, its students and alumni. All graduates or former students who have attended Moorhead State University for at least one year may be members of the Association. The Alumni Association is governed by an elected 24-member board of directors.

Activities of the association include: providing grants to students, faculty and organizations; sponsoring special projects, such as homecoming and awards; raising money for scholarships; and serving as a liaison between the community and the university.

STUDENT INFORMATION

Student Affairs

The Office of Student Affairs coordinates the following programs: admissions, housing, security, counseling, financial aid, health services, career and placement services, student union, services to students with disabilities, orientation/new student life, student activities, student organizations, student government, food services, student development, minority student affairs, international student services, the Women's Center, intercollegiate athletics, campus discipline, cultural diversity and enrollment management.

Student Senate

Most activities and concerns of the entire student body are subject to consideration by the Student Senate, whose officers and members are elected by the students of Moorhead State.

Student Advisor Program

The student advisor program supplements the faculty advising program. About 40 upper-division students, nominated by their major departments, are appointed to assist students, particularly freshmen, to take advantage of all the learning opportunities at Moorhead State University. Student Advisors work through their departments and also sponsor a Student Information Center, located in Flora Frick Hall. They are employed by the Office of Academic Affairs.

Student Activities and Organizations

In addition to numerous activities related to academic studies, various campus agencies provide opportunities for extracurricular participation by students at Moorhead State University. For a list of recognized student organizations on campus, contact the Student Organization Development Center, CMU 222, 236-2174.

Men's Intercollegiate Athletics

Basketball
Cross-Country
Football
Golf
Tennis
Track (indoor and outdoor)
Wrestling

Women's Intercollegiate Athletics

Basketball
Cross-Country
Golf
Softball
Tennis
Track and Field
Volleyball

Intramural Athletics

(m—Men, w—Women, c—Coed)
Basketball m, w & c
Basketball Challenge m & w
Broomball m & c
Flag Football m & w
Golf m & w
Ice Hockey Open
Mini-Triathlon m & w
Racquetball m, w & c
Sandlot Volleyball c
Softball m, w, & c
Swimming m & w
Tennis m, w, & c
Track m & w
Volleyball c
Wallyball c
Wrestling

Speech-Theatre Activities

KMSC Radio
Forensics
MSU Theatre
Straw Hat Players
Readers Theatre

Music Organizations

Concert Band
Percussion Ensemble
Orchestra
Jazz Band
Vocal Ensembles
Instrumental Ensembles
Festival Choir
Snowfire
Wind Ensemble
Opera Workshop
Concert Choir
Chamber Singers
Collegium Musicum

Comstock Memorial Union

The Union conducts a regular program of events: movie series, art exhibits, billiards, concerts, dances, outdoor recreation, table tennis, video tapes and special events.

Center for the Arts

The CA is the site for photographic and art exhibits, music recitals and programs, and the annual Performing Arts Series with nationally known artists.

Other Fee-Funded Activities

Advocate (student newspaper)
Campus Activities Board
Delta Pi Delta
Dramatics
Forensics
Homecoming
International Films
International Students
Intramurals
Journal of Social and Behavioral Sciences
KMSC (radio)
Minority Students
Music Activities
Performing Arts Series
Recreational Swimming
Student Senate
Summer Theatre
Visiting Scholar Lecture Series
Volunteer Connection

Student Organizations

Cultural

American Indian Association
Black Student Alliance
Chinese Student Club
Hispanic Cultural Organization
International Club
Japanese Club
Pakistan Students Association
Russian Culture Club
Vietnamese Club

Departmental

Accounting club
Ad II Club
Administrative Management Society
American Institute of Graphic Arts
American Marketing Association
Association for Computing Machinery
BETA BETA BETA
Blackfriars/Board of Governors
Business Professionals of America
Chemistry Club
Criminal Justice Association
Energy Management Society
Financial Management Association
French Club
German Club
GraphiComm
History Club
HyPEd Club
International Business Club
Legal Assistant Student Association
Mathematics Club
Moorhead State Student Social Work Association
(MSSSWA)
MSU Homebuilders/Construction Management Society
MSU Spanish Club
Music & Entertainment Industry Students Association
(MEISA)
National Student Speech, Language and
Hearing Association
Norwegian Club
Pi Sigma Epsilon
Pre-Law Club
Pre-Professional Club
Psi Chi-Psychology Club
Public Relations Student Society of America
Sigma Alpha Iota (Music)
Sigma Delta Chi-Society of Professional Journalists
Social Studies
Student Advisory Committee
Society of Hosteurs
Society of Manufacturing Engineers/
Industrial Technology Club
Student Minnesota Education Association
Students Involved in Visual Arts (SIVA)

Social Sororities

Panhellenic Council
Delta Zeta
Gamma Phi Beta

Social Fraternities

Phi Sigma Kappa
Old Order of the Owls

Honorary

Alpha Lambda Delta (English)
Delta Mu Delta (Business)
Honors Club
Kappa Delta Pi (Education)
Minnesota Kappa Chapter of Pi Kappa Delta (Speech)
Pi Omega Pi (Business Education)
Sigma Tau Delta (English)

Political

College Republicans
MSU College Democrats

Publications

Advocate

Special Interest

Campus Activities Board
Heritage Dancers
Homecoming Committee
KMSC (radio)
Lighthouse Toastmasters
Model United Nations Club
MSU Collegians for Life
MSU Science Fiction and Fantasy Club
MSU Sign Language Club (pending)
New Center Student Activities Committee
Non-Traditional Students Association
(Delta Pi Delta/SOTA)
Photography Club
PHSA Graduate Student Association
Professional and Social Council (PASC)
Progressive Student Organization
Society for Technical Communication
Student Council for Exceptional Children
Student Human Resources Association
Ten Percent Society
Tri-State Flying Club
Unicorn
United Nations Tour

Residence Halls

Residence Hall Association
Ballard Hall Council
Dahl Hall Council
Nelson-Grantham Council
Neumaier-Holmquist Council
Snarr Hall Association

Religious

Campus Ambassador Christian Ministry
 Campus Crusade for Christ
 Campus in Action
 Fellowship of Christian Athletes
 Inter-Varsity Christian Fellowship
 Lutheran Student Movement
 St. Thomas Newman Center
 United Campus Ministry

Service

Circle K
 SPURS
 Volunteer Connection

Student Government

Student Senate

Sports and Recreation

Cheerleaders
 Dragon Danceline
 MSU Okinawan Martial Arts Club
 MSU Scout Team
 MSU Tae Kwon Do

Parking and Traffic Regulations

All motor vehicles driven or parked on the campus must be registered and bear a current parking permit which may be purchased in the Office of Administrative Affairs, Owens Hall 206.

All motor vehicles must be operated in conformity with the official published parking and traffic regulations of the university.

Housing Policies

Housing reservation forms are mailed to all students following their admission to the university and are also available from the Housing & Security Office.

Off-campus students are requested to give notification of any change of address or telephone number to the Office of Student Services.

Health Service and Insurance

The Hendrix Health Center, located in the lower level of Dahl Hall, is an excellent out-patient clinic staffed with local doctors, nurse practitioners and other professional staff members. They offer medical treatment, referrals, health education and counseling, and pharmacy services. Minimal charges are made for pharmaceuticals and some of the laboratory tests.

A group plan of accident and health insurance is available through the university. Information concerning the

student group policy is provided at the time of registration or may be secured upon request addressed at the university's business office. It is strongly recommended that all students have some form of insurance protections against the cost of accident and illness.

All students are requested to fill out a medical history form. One may be obtained at Hendrix Health Center.

Minnesota Law (M.S.135A.14) requires that all students born after 1956 and enrolled in a public or private post-secondary school in Minnesota be immunized against diphtheria, tetanus, measles, mumps, and rubella, allowing for certain specified exemptions. This form is designed to provide the school with the information required by law and will be available for review by the Minnesota Department of Health and the local community health board.

Enter the month, day (if available), and year of the most recent "booster" for diphtheria and tetanus (must be within the last 10 years) and for all doses of vaccine for measles, mumps, and rubella that were given after 12 months of age.

ADMISSION

104 Owens Hall
 Moorhead State University
 Moorhead, MN 56563

Telephone: 218-236-2161 Local & Out of State
 1-800-593-7246 Toll Free in Minnesota
 218-236-2161 Call collect in ND & SD

The Office of Admissions welcomes inquiries about the University. Prospective students may obtain applications for admission by writing or calling the address listed above. Campus tours may be scheduled with the Office of Admissions on Monday through Friday when classes are in session. Tours are available at 10:00, 11:00, 12:00, 1:00 and 2:00. Summer tours are offered at 10:00 and 2:00.

MSU encourages early planning for college. Applicants' past academic achievement, college entrance examination scores and recommendations are all considered in the admissions decision. Moorhead State University is not an open enrollment institution. Minimum admission requirements have been established to emphasize the need for preparation prior to admission.

APPLICATION DEADLINES

Term	Deadline
Fall	August 15
Winter	November 15
Spring	February 15
Summer	May 15

FRESHMAN ADMISSION

Freshman Application Procedures

Applying for admission and financial aid are two separate procedures. Prospective students need to complete the appropriate applications for each office. Freshman applicants are required to submit the following to the Office of Admissions:

1. Application for Admission
2. \$15 non-refundable Application Fee
3. ACT, PSAT, or SAT scores (ACT is preferred)
4. High School Transcript

Applicants should request that their high school send an official transcript to the Admissions Office at the time of application. Students must also have a final transcript sent after graduation. FAX (facsimile) copies are not accepted. If transcripts are not in the same name as the application (due to a legal name change), it is the responsibility of the applicant to have the name corrected on the transcripts so that the application and transcripts can be matched. Students wishing to begin classes in the fall are encouraged to apply for admission as early as the previous December.

Freshman Admission Requirements

High school graduation, or the G.E.D., and the following qualifications are necessary for regular admission to Moorhead State University:

1. High school rank in the upper one-half of the graduating class, **OR**
2. Achieve the following score(s) on any one of the standardized college admissions tests: (ACT is Preferred)

ACT Composite Score of 21 or above
PSAT Verbal and Math Combined Score of 90 or above
SAT Verbal and Math Combined Score of 900 or above

Preparation Standards

New entering freshmen from Minnesota High Schools. Beginning Fall 1994 must have completed the following courses:

- 4 years of English (including composition and literature)
- 3 years of Mathematics (2 years of algebra, of which one is Intermediate or Advanced Algebra, and 1 year of geometry)
- 3 years of Science (at least 1 year of a biological and a physical science and at least one course including significant laboratory experiences)
- 3 years of Social Studies (including American history and at least one course that includes significant emphasis on geography)

3 years of specified electives chosen from at least two of the following: World Language, World Culture, Visual and Performing Arts

It is strongly recommended that students develop skills in word processing, computing, and technology. The university strongly recommends that students complete an additional year of advanced mathematics, an additional year of advanced science, and that two of their three specified elective credits be earned in a single world language, which may include non-English native languages and American Sign Language.

New entering freshmen from reciprocity states (ND, SD, WI) and the Province of Manitoba who have met preparation standards for university admission in their respective states will usually be deemed to have met our preparation standards when the new requirements go into effect Fall 1994. Significant deficiencies, if any, can be made up at MSU.

New entering freshmen from other states may not have completed the required preparation standards. MSU recognizes that high schools may vary in their ability to meet preparation for college and that not all students have access to, or make use of, counseling services available to assist them in making appropriate course selections. As a result, MSU acknowledges that some applicants may not be able to meet all of MSU's admission requirements. The university will review each transcript and note any deficiencies. If required preparation courses are not offered at a student's previous school, exceptions may be granted in order to be admitted. Students admitted without required preparatory coursework will be required to make up deficiencies at MSU.

Students not meeting admission requirements, but who reside within the MSU service region, may be considered for admission to the Center for Multidisciplinary Studies and will be asked to complete and return a New Center Questionnaire. (See section of the Bulletin on New Center for Multidisciplinary Studies). Enrollment in the New Center is limited both numerically and geographically. The application process will be delayed for those who do not meet the MSU admissions requirements, since additional time is needed for a committee to review the files.

Students who have completed a G.E.D. must have their test scores and a copy of their certificate forwarded by the test center. An official high school transcript for those courses completed is also required.

If an enrollment limitation is necessary, priority is given to students in MSU's service region.

Following formal admission, students are sent applications for housing and financial aid. Those applying for financial aid should complete and return all required

forms as soon as possible after January 1. It is recommended that students applying for Fall quarter housing should return their housing contract before February 1.

Non-traditional Students

MSU defines a non-traditional student as someone who has been out of high school and/or college two or more years.

The admission of non-traditional students who have not taken college entrance examinations will be based primarily on high school rank. Students whose high school ranks are not sufficient for admission may want to take a college entrance examination; however, scores from college entrance examinations taken several years after the student has been away from high school may be lower than if taken during high school. All non-traditional applicants and GED graduate applicants will be reviewed individually.

TRANSFER ADMISSION Transfer Application Procedures

Students who wish to transfer from another institution must submit the following:

1. Application for Admission with Advanced Standing
2. \$15 non-refundable Application Fee
3. Official Transcript(s) of all previously attended post-secondary institutions. Transcripts must be sent directly from the previous institution's registrar's office to the MSU Office of Admissions. FAX (facsimile) copies are not acceptable.
4. Official High School Transcript

If transcripts are not in the same name as the application (due to a legal name change) it is the responsibility of the applicant to have the name corrected on the transcripts so that the application and transcripts can be matched.

Transfer Admission Requirements

High school graduation, or the G.E.D., is required for admission. Transfer students who have completed a minimum of 32 ACADEMIC quarter hour credits (does not include technical, remedial, or vocational courses) from a regionally accredited college or university with a 2.0 cumulative grade point average generally will be admitted to Moorhead State University. (NOTE: All grades of F, NC (no credit) or Incomplete will be treated as F's in computing grade point average). No courses with "D" grades can be transferred to MSU.

Although a 2.0 GPA is required for admission, a higher grade point average may be required for entry into some academic departments. These requirements are described in the specific department sections of the bulletin.

Transfer students must also submit a final high school transcript. Both college and high school records are used

in determining eligibility for admission.

High school transcripts are also required for those students who have attended a technical college/institute. Students are generally given regular admission if they meet admission requirements for freshmen and are in good standing at the technical college/institute. *Students may apply for admission before completion of studies at another college, but a final transcript must be forwarded before enrollment. MSU reserves the right to revoke admission to those students who, after final grades are received do not meet the minimum GPA.*

No student currently under suspension from another institution will be admitted. Transfer students must submit complete transcripts from all post-secondary institutions previously attended. Violation of this regulation will be regarded as a serious offense and may result in the student's dismissal from the University and the withdrawal of all credits completed.

Following formal admission, students will be sent applications for housing and financial aid. Those applying for financial aid should complete and return all required forms as soon as possible after January 1. It is recommended that students applying for Fall quarter housing should return their housing contract before February 1.

Preparation Standards for Transfer Students

Students who wish to transfer with an A.A. degree from a public Minnesota Community College will be exempt from the preparation requirements. Students who wish to transfer from another institution who are in good standing at that institution but who have not completed an AA degree must either have completed all required high school courses or have completed 36 collegiate credits that are judged to have satisfied all preparation requirements.

SPECIAL STUDENTS

Undergraduate students who do not plan to work on a degree at Moorhead State or graduate students who have not been admitted to a graduate program, may enroll as special students. Undergraduate students must meet the Admissions requirements of degree-seeking students. Undergraduate special students are encouraged to apply as degree candidates if they have or plan to take more than 20 undergraduate credits. Students who have been denied admission may not be considered for special student status.

- Special students are not assigned to a faculty advisor.
- Special students do not qualify for financial aid.
- Special students are not given registration priority.
- No student is eligible for graduation while in special student status.

READMISSION

Students who leave Moorhead State University for one or more quarters need to reapply for admission. Former students of MSU, including those who have enrolled in off-campus courses, should complete a readmission form. Official transcripts of all post-secondary study since the last date of attendance at Moorhead State must be submitted before the readmission process is complete. Transfer credits not reported before readmission may be disallowed and academic suspension at another institution, if unreported, is cause for cancellation of enrollment. Readmission is not automatic. Returning students must be in good standing or have approved clearance.

All students who began their study in 1965 or later must pay the application fee if they haven't already done so. If transcripts are not in the same name as the application (due to a legal name change), it is the responsibility of the applicant to have the name corrected on the transcripts so that the application and transcripts can be matched. Students will be readmitted to their original status and major unless they request a change. Students who were originally admitted as special students who wish to change their status to degree seeking must notify the Admissions Office of this change and request all official transcripts to be sent to the Admissions Office.

ADMISSION TO THE NEW CENTER FOR MULTIDISCIPLINARY STUDIES

The New Center offers an alternative way to begin university studies. Its purpose is to provide an integrated program of Liberal Arts and support courses for freshmen and sophomores. "Multidisciplinary" means that the courses link knowledge and insights from a variety of fields: English, natural sciences, social sciences, humanities, and communications. Moorhead State requires that one-third of studies be from these areas. Most courses offered by the New Center satisfy these requirements, but rather than limit study to one subject, or discipline, many of these courses explore problems or themes that cross subject lines.

If students have a gap in their preparation or need a review in basics, the Center also offers review courses in reading, writing and mathematics. These review courses are not awarded college credit. The remaining forty-seven courses award university credits. They are fully transferable to MSU baccalaureate programs.

The New Center does not use the standard letter grading method. Instead each course has a number of objectives which students are required to master. As the objectives are attained, credit is earned. Although students do not receive letter grades, they are expected to make steady progress toward educational goals. In order to be in good standing, a student must complete at least seventy percent of the credits attempted.

Students not meeting the admission requirements but who reside within the MSU service region, may be considered for admission to the New Center. Enrollment in the New Center is limited both numerically and geographically. Students are considered for admission to the New Center once their file is completed and they have returned a New Center Questionnaire. An Admissions Committee will review all materials and determine whether to admit to the New Center or deny admission.

Admission To External Studies

Students applying to the External Studies Program must meet Admission requirements as previously explained.

Permanent Resident Admissions

Permanent residents (or resident aliens) are individuals who currently hold a "green card." Resident aliens must fulfill the same academic requirements for admission that international students and/or U.S. citizens are required to fulfill. Resident aliens are not required to provide evidence of financial support since they are able to apply for federal and state-based financial assistance. As evidence of English proficiency, resident aliens must include with their application a TOEFL examination report indicating a score of 500 or higher.

INTERNATIONAL STUDENTS

Freshman International Students

International students who wish to be considered for admission to MSU should obtain an international student admissions packet from the International Student Affairs Office. This packet should be returned with a \$15 application fee. All international student applicants must meet (1) academic, (2) English proficiency, and (3) financial support requirements:

Academic:

- (1) International student applicants should submit official or certified copies of all appropriate transcripts, marks sheets and/or certificates of completion indicating successful completion of an appropriate secondary school program. Successful applicants will have achieved an academic standard of performance similar to that which would be expected of applicants from the United States (see "Freshman Admission Requirements" section above).

English Proficiency:

- (2) International students are required to provide evidence that their English proficiency is sufficient to enable them to be academically successful at MSU. Evidence of English proficiency is provided by submitting a score report from a TOEFL examination taken less than two years prior to the date of application. TOEFL exam scores of 500 or higher are acceptable for admission.

Financial Support:

(3) International students are not eligible for U.S. federal or state need-based financial assistance. Therefore, they are required to provide evidence that they have sufficient financial support to meet their educational expenses during their period of enrollment at MSU. International student applicants should complete the International Student Financial Statement form and submit it with a recent bank statement revealing a current account balance.

Transfer International Students

International students who have completed post-secondary course work should follow the admissions procedures described above for freshman international applicants. In addition, official or certified copies of all appropriate transcripts, marks sheets and/or certificates of completion for post-secondary course work should be submitted.

Applicants who have completed post-secondary course work in the United States should arrange to have a transcript sent directly from all institutions previously attended to the International Student Affairs Office. Academic admissions requirements will be the same as those for U.S. residents (described in the "Transfer Admission Requirements" section.) Post-secondary course work completed outside of the United States will be evaluated and transfer credit will be awarded, if appropriate. No course work with "D" grades or their equivalent will be transferred to MSU.

TOEFL Testing

The institutional TOEFL examination is offered each quarter on campus at MSU. Results from this examination are used to determine eligibility for admission to MSU. Other educational institutions may, or may not, accept institutional TOEFL results. Therefore, individuals who are seeking admission to other educational institutions may want to take the examination at an international TOEFL test center.

To take the MSU institutional TOEFL test students must:

1. Register for the examination at least six weeks prior to the date of the test;
2. Submit a \$20 examination fee;
3. Apply for admission to MSU prior to sitting for the test;
4. Present their passport, or other official photo-bearing document, at the time of the examination.

For more information about the TOEFL examination write to the International Student Affairs Office.

International (Temporary Resident) Admissions

Applicants for permanent residency are classified as international students until they hold the resident alien

"green card." Therefore, temporary residents must fulfill all requirements for admission (academic, financial support and English proficiency) that international student applicants are required to fulfill except that applicants who do not request an I-20 will not be required to provide evidence of financial support. Temporary residents are not eligible to apply for the waiver of out-of-state tuition program which is available to outstanding international students.

Mandatory Health Insurance

All international students and their accompanying dependents are required to carry health insurance through our designated carrier.

Special Advanced Standing for High School Students

Juniors and seniors in high school who show exceptional academic ability, may enroll in courses at MSU by submitting a completed application form, high school transcript, \$15 application fee, and a statement from their high school principal or counselor granting permission to attend college courses.

Any credits earned here must be in addition to those studies required by your high school for graduation. Official credit granted by the university will be deferred until after high school graduation.

(Note: The provisions of this admission policy do not apply to Minnesota high school students enrolled for both high school and college credit under the Post-Secondary Enrollment Options Program (PEOP) described below. Students participating under the PEOP are advised to follow the appropriate procedures.)

Post-Secondary Enrollment Options Program

As enacted by the 1985 Minnesota Legislature, a Minnesota high school junior or senior may enroll for courses at Moorhead State University as part of the student's full-time high school enrollment and receive both college credit and credit toward high school graduation requirements. No charge will be made to students for the costs of tuition, fees or required textbooks and materials.

To be eligible for this program, students need to submit a completed Minnesota College Admission form including or accompanied by a transcript or statement from the high school indicating that the student ranks at least in the upper half of their high school class or has an equivalent score on a college admission examination.

It's recommended that students carefully consider their participation in this program before applying for admission. Students should discuss participation in the PEOP program with their parents and high school counselor/principal.

Admissions applications will be reviewed and program eligibility established by the PEOP coordinator at MSU. Upon request, a conference will be arranged for the student and at least one parent with the program coordinator. The Notice of Student Registration form must be completed by the student and the high school counselor/principal prior to registration for classes. Students in the PEOP program will register after all regularly admitted students have been registered, on a space-available basis.

Class schedules and registration forms will be supplied by Moorhead State University. Application forms are available at all Minnesota high schools.

High school students taking classes at Moorhead State University are classified as special students. Students are not eligible for graduation at MSU while in special student status.

Students who seek degree status after participating in the PEOP program, must notify the Admissions Office of their intention, pay the \$15 application fee, and have final transcripts which verify that all course work has been completed and which certify high school graduation, sent to the Admissions Office.

FINANCIAL INFORMATION

University Expenses

Since Minnesota taxpayers provide a good share of the support for the education costs at Moorhead State University, students are able to complete their studies with less expense than at many other colleges and universities.

Basic costs usually fall into three categories: tuition and fees, housing and meals, and incidental or personal expenses. Barring any unusual financial obligations, students living on campus can expect estimated total annual expenses at MSU to range from \$5,400 to \$6,300.

The following is a table of estimated costs for the 1991-92 academic year, based on a normal undergraduate load of 16 credits per quarter.

Tuition (including mandatory comprehensive fee):

Resident	\$2,193.60
Non-Resident	\$3,832.80

Housing and Meals

Resident (Double)	\$2,529.00
Non-Resident	\$2,529.00

Total

Resident	\$4,722.60
Non-Resident	\$6,361.80

Incidental and personal expenses—books and supplies, clothing, laundry, recreation, transportation, etc.—may range from \$1,200 to \$1,600 depending upon individual needs.

Tuition Rates

Charges for tuition are based upon the quarter credit unit, varying according to student status and the type of course offered.

Resident Status

Undergraduate	\$39.20
Graduate	\$57.20

Non-Resident Status

Undergraduate	\$73.35
Graduate	\$82.50

These rates are subject to change without advance notice by the Minnesota State University Board which establishes uniform tuition rates for all state universities in Minnesota.

Comprehensive Student Fee

All students enrolled for regular instruction (resident credit) are assessed a mandatory comprehensive fee at a rate of \$6.50 per credit hour not to exceed \$78.00 per quarter.

Fee assessments are required by the State University Board to defray costs of maintaining such essential university services as student union operation and debt retirement, health services and co-curricular programs or activities.

Comprehensive fees are required for all campus-based courses, including student teaching, internships and other instructions which may not be located on the MSU campus. The comprehensive student fee is the only fee all students pay. In a few cases, laboratory and studio courses require supply fees, but these courses are few and the costs minimal.

Resident and Non-Resident Tuition Status

The physical presence of an individual in the state of Minnesota for a period of not less than one (1) calendar year shall be the minimum basic requirement for the purpose of determining resident tuition status, except as otherwise stipulated to Minnesota Statute. Resident tuition status shall be granted to:

- A) Individuals who have lived in the state substantially and continuously for the twelve (12) months immediately prior to the first class day of enrollment at a state university for which resident tuition status is being

sought and provided the individual has not enrolled as a full-time student at any Minnesota post-secondary institution during this period.

- B) Individuals who have graduated from a Minnesota high school within thirty (30) months prior to the first class day of enrollment at a state university for which resident tuition status is being sought. Student must have been a Minnesota resident or a dependent of a Minnesota resident at the time of the graduation.

Individuals in the following categories are granted resident tuition status provided that evidence of their eligibility for the exemption is presented and accepted by the university:

1. An individual serving in the armed forces of the United States who is assigned to active duty in Minnesota for reasons other than college attendance, or who is assigned to active duty outside the continental United States, provided legal residence is not claimed in any other state or the District of Columbia. Dependents and spouses of such military personnel are included under this provision.
2. A veteran who has served in the armed forces of the United States for a period in excess of 190 days for purposes other than training and who has been released from such services within two (2) years of the date of initial enrollment in a state university providing legal residence is not claimed in any other state or the District of Columbia.
3. A graduate student appointed to a graduate assistant position. Resident tuition status is effective for the entire academic quarter if the appointment begins by the tenth (10th) class day of the quarter and is maintained there-after only for the duration of the appointment.
4. An individual or the dependents and spouses of an individual who is a permanent resident of the United States and who has been employed in seasonal agricultural labor in the state of Minnesota for a cumulative time period of not less than one (1) year in the past five (5) years.
5. A United States citizen, his or her spouse or dependents, who is employed by the federal government and stationed outside of the continental United States, provided legal residence is not claimed in any other state or the District of Columbia.
6. A full-time faculty member in the first year of his or her appointment at an accredited Minnesota college or university.
7. An individual enrolled for one (1) course for five (5) credits or less who currently resides in Minnesota.

8. An undergraduate student transferring to MSU, who, in the past twelve (12) months, has been granted residency status for tuition purposes by a Minnesota public post-secondary educational institution.

9. A spouse or dependent of an individual who has moved to Minnesota to accept permanent employment.

10. High ability students, as defined below, who reside in states that do not have reciprocity agreements with the state of Minnesota:

- a. Individuals who are in the top 15 percent of their high school graduating class who have an ACT composite score of 25 or more, a PSAT selection index of 150 or more, or combined
- b. math and verbal SAT of 1100 or more.

11. Individuals who have successfully completed an Associate of Arts or Associate of Science degree at an accredited college or university and who have a cumulative grade point average of 3.5 or better.

Special requirements for transferring students from underrepresented minority groups:

- a. Has completed 45 quarter hours of college-level work (not to include remedial courses).
- b. Demonstrated academic achievement with a cumulative minimum transfer grade point average of 3.0.
- c. Awards are renewable for a total of 192 credits or four years (including previous college work), whichever occurs first, if student meets the following academic progress standards:
- d. Maintain a 3.00 grade point average each academic year, and
- e. Complete a minimum of 36 credits per academic year.

12. Individuals who transfer from another accredited college or university and who were in the top 15 percent of their high school graduating class or who had an ACT composite score of 25 or more, a PSAT selection index of 150 or more, or a combined math and verbal SAT of 1100 or more, and have a current cumulative grade point average of 3.5 or better.

The MSU president may extend resident tuition status to such high ability students up to a number not to exceed 5 percent of the MSU initial fall quarter FTE enrollment. Students admitted or matriculating under this provision

must maintain a minimum grade point average of 3.0 in order to retain resident tuition status beyond the initial year of enrollment.

13. Individuals who reside in states that do not have a tuition reciprocity agreement with the state of Minnesota and who are members of underrepresented racial and ethnic minority groups (specifically, black, Hispanic, Native American and Asian-Pacific populations), and who are in the upper 25 percent of their graduating classes. The decision to implement this exemption shall be at the discretion of the university President.

a. Nonimmigrant Japanese students who have completed a program of study of at least one academic year at Minnesota State University-Akita and have been recommended by the Provost for transfer to MSU shall qualify for resident tuition status.

14. Any immigrant classified under 8.U.S.C 1101 (a)(15)(B), (C), (D), (F), (H), (J), and (M) is not eligible for resident tuition status, except that the MSU president shall have the discretion to grant international students resident tuition status up to a number not to exceed 3 percent of the university's initial fall quarter FTE enrollment.

Reciprocal Tuition Agreements

Residents of North Dakota, South Dakota or Wisconsin may qualify for reduced or resident tuition rates at Moorhead State University by complying with procedures of the reciprocal agreements between those states and the State of Minnesota.

Reciprocity application forms are available from the Records Office to be completed, notarized and submitted to the higher education authority in the student's home state. Notary services are available at most banks and courthouses or at the Moorhead State University Business Office, Student Financial Aid Office, or Records Office.

North and South Dakota and Wisconsin students will be charged at reciprocity tuition rates only if Moorhead State has been notified of their approval for reciprocity status by the appropriate higher education authority prior to regular billing dates.

Qualified students who are billed for non-resident tuition may pay reciprocity rates or receive refunds by providing evidence of their official approval within two weeks after the first class day. Copies of letters from their home state approving agencies will be satisfactory for this purpose. Payment deadlines may not be deferred to await approval.

Applications should not be submitted to Moorhead State but should be mailed directly to home state approving agencies.

Previous Minnesota residents and students who qualify for resident tuition under special Minnesota regulations shall be required to apply for reciprocity if they are residents of North and South Dakota or Wisconsin.

Minnesota-Manitoba Reciprocity

Effective 1990, the state of Minnesota and the Canadian province of Manitoba, have entered into a reciprocal tuition agreement. Students who are residents of Manitoba are now eligible for resident tuition at Moorhead State University. Please address any questions about Minnesota-Manitoba reciprocity to the MSU Registrar.

Payment of Tuition and Fees

All tuition and fees are payable in full each quarter on or before deadlines designated in the academic calendar.

Students who have any financial obligations to the university with the exception of loans scheduled to mature at a future date may be prevented from registering until their obligations are met. Room and board charges are payable in full at the beginning of each quarter or in two advance installments by special arrangement with the Business Office.

Refund of Payments

Students who withdraw from all courses at MSU may apply for a refund of their tuition and fees. No refund is paid if the amounts are less than \$1.00.

Refunds or reductions in tuition and fees for dropped courses will be made only in the first three calendar days of the fall, winter or spring quarter, on the first day of a summer class, and for off-campus or evening classes which are dropped after the first course meeting but before the second.

Following is a schedule of the percentage of refund that will be made according to the time of complete withdrawal:

During Regular School Year

On or before the 3rd class day	100%
4th through 8th class day	75%
9th through 13th class day	50%
14th through 18th class day	25%
After 18th class day	None

During Summer Session:

On or before 1st class day	100%
2nd through 4th class day	75%
5th through 7th class day	50%
8th through 10th class day	25%
After 10th class day	None

Off-campus and evening courses:

1st course meeting but before the second	100%
2nd course meeting but before the third	75%
3rd course meeting but before the fourth	50%
4th course meeting but before the fifth	25%
5th course meeting and later	None

Note: Class days refer to days in the MSU calendar and not the meeting days of the class to be dropped. Most students receiving financial aid who withdraw will have all, or a portion, of their refund credited to their financial aid programs and may incur repayment obligations if any direct cash disbursements were received.

Housing and Dining Contracts

If you are to live in a university residence hall, you must sign a contract. The complete contract will be mailed to you and should be carefully read for provisions affecting your plans. Specific questions should be addressed to the MSU Housing Office.

To help plan your costs, room and board rates including local telephone service for each quarter of the year are:

Quarterly	Single
Room/21 meals	\$953 S4
Room/14 meals	\$933 S3
Room/10 meals	\$916 S2
Room only	\$663 S1
	Double
Room/21 meals	\$843 D4
Room/14 meals	\$822 D3
Room/10 meals	\$807 D2
Room only	\$553 D1
	Triple
Room/21 meals	\$771 T4
Room/14 meals	\$751 T3
Room/10 meals	\$735 T2
Room only	\$483 T1
	Double/Single
Room/21 meals	\$965 T4
Room/14 meals	\$943 T3
Room/10 meals	\$928 T2
Room only	\$686 T1

Off-campus board only: 21 meals/\$384; 14 meals/\$362; 10 meals/\$347.

Financial Aid

Students seeking help for financing their educational plans should seek help from all possible sources including the university. When applying to MSU for aid, undergraduates are expected to apply to the Minnesota Grant and to the Federal Pell Grant Program as well as MSU

programs. Financial aid is available in two categories: (1) programs which require students to demonstrate financial need such as Pell, MN Grant, Work Study, SEOG, and Stafford and Perkins loans, and (2) programs that are not based on need such as PLUS, SLS and SELF loans.

Information and application forms about financial aid are available from the Financial Aid Office or Admissions Office.

Application for Financial Aid

University action on aid applications can only be taken for admitted or currently enrolled students at Moorhead State. Students must complete the ACT Family Financial Statement, designating MSU to receive a copy of the report to be considered for aid. In addition, applicants must complete and provide the MSU Application for Financial Aid form to the Financial Aid Office. All applicants should submit a signed copy of their Federal Income Tax Return and, in addition, all students under 24 years of age must submit a signed copy of their parents' Federal Income Tax Return as filed with the IRS. Graduate and married students should check with the Financial Aid Office for special requirements. Additional documentation may be required. No other application forms are necessary for the Perkins Loan, Supplemental Education Opportunity Grant, College Work Study assistance or Stafford Student Loans.

Students must meet the following eligibility criteria for each of the programs available at MSU. Private scholarships, MSU scholarships and outside agencies such as Department of Rehabilitation Services and Bureau of Indian Affairs establish their own individual guidelines for student eligibility. Federal assistance such as Pell Grant and the campus-based programs requires that students:

1. Demonstrate financial need;
2. Have a high school diploma or GED;
3. Must be enrolled as a regular student in a degree program;
4. Must be a U.S. citizen or eligible non-citizen;
5. Must maintain satisfactory academic progress;
6. Must provide Financial Aid Transcripts from all previously attended post-secondary schools.

Students must complete certification statements regarding default and repayment status, use of Federal funds for educational purposes, Selective Service registration and drug compliance.

Aid applications should be completed and mailed as early as possible after January 1 to assure fullest consideration. Campus-based funds such as SEOG, work-study, and Perkins loans are awarded on a "first-applied-first-awarded" basis. Applications will be processed and

awards made to the extent that funds are available. Students must apply each year.

FFS forms are available from high school counselors, from other post-secondary schools or from the MSU Financial Aid Office.

Aid Awards and Renewals

Financial aid awards are made for a one-year period only, ending at the conclusion of spring quarter. Any change in students' financial resources (i.e. receipt of grants, educational loans or scholarships from non-university sources) should be reported to the Financial Aid Office for possible adjustments to aid packages. This is especially important if a student or the family has an extraordinary financial problem after applying for aid or receiving an award.

Most financial aid (grants, loans, scholarships) is disbursed on a quarterly basis during a scheduled fee payment period. Money not available at that time can be picked up in the Business Office. Students attending full time or part time can receive financial aid; however, most programs require enrollment for six or more credits. Students must meet all eligibility criteria before money, which has been awarded, may be disbursed. Student loans are made in multiple disbursements and require at least two disbursements regardless of the length of the loan period. Students who are entering a bachelor's program for the first time and are first-time borrowers in either the Stafford (GSL) or SLS program, will not receive their first loan disbursement until they have been enrolled for 30 days.

Work-Study and other campus employment earnings are paid at regular two-week intervals.

Students with special or unusual circumstances should contact the Financial Aid Office for information on the appeal process. All special circumstance require documentation.

Summer Financial Aid

A separate summer application is required for financial aid. Check with the Financial Aid Office for details. Summer financial aid is considered a part of the preceding academic year.

Types of Financial Aid Perkins Loan (formerly NDSL)

Undergraduates may borrow up to \$4,500 during the first two academic years, up to a total of \$9,000 during four years. Students must demonstrate financial need. This loan is to be repaid at 5 percent interest on the unpaid balance starting six or nine months after students leave the university. It has a maximum repayment period of 10 years and a minimum monthly payment of \$30. A portion

of the principal and interest may be canceled for certain kinds of public service and payment deferred for service in the Peace Corps, VISTA or the Armed Forces. Priority is given to early applicants.

College Work-Study Program (CWSP)

Students have the opportunity to earn part of their educational expenses through part-time work on campus throughout the year. Working part-time an average of 10-15 hours per week, one could earn from \$300 to \$800 each quarter from Work-Study employment. The actual amount varies with work schedule, pay rate, and students must demonstrate financial need. Priority is given to early applicants.

Supplemental Educational Opportunity Grant (SEOG)

For undergraduates with financial need and who are eligible for the Pell Grant, the SEOG grant is available. SEOG grants range from \$200 to \$600 per year. These grants are renewable on a "first applied, first awarded" basis, but are limited to students who have not received a baccalaureate degree and continue to demonstrate financial need. Requires annual application.

Pell Grant

Eligible undergraduates may receive up to \$2,400 per year from the Federal Pell Grant program. Determination of eligibility is not made by the university but through the application which is part of the ACT-FFS form. Students with extreme changes in financial circumstances should ask for information on the appeal process for the Pell Grant. Student Aid Reports (SARs) which indicate Pell Grant eligibility, should be submitted to the Financial Aid Office as soon as they are received. No Pell payments can be made until a valid SAR is on file. Receipt of a Pell Grant will not limit other chances for financial assistance as long as a student needs it. All undergraduates must apply for Pell grants when applying for financial aid at MSU.

Minnesota State Grants

Minnesota residents who enroll at MSU may qualify for aid under the Minnesota State Grant and grants are available for up to four years of full time enrollment. Aid eligibility is determined by the MSU Financial Aid Office.

Scholarships

Moorhead State awards scholarships to freshmen, community college graduates and upper-class students with outstanding abilities, qualifications and promise. See scholarship information on page 27. Scholarships are added to the financial aid package and treated as gift aid.

Stafford Student Loans (formerly GSL).

Students may borrow up to \$4,000 annually, based on grade level and need, at low interest from private lending

institutions. Interest is paid by the federal government while students are in school. Repayment begins six months after leaving school with a minimum payment of \$50 per month. All students are required to demonstrate financial need.

Note: Indebtedness to MSU under the Perkins Loan program and to a bank under a guaranteed loan requires two monthly payments. The Financial Aid Office tries to choose the loan program which best meets the needs of students and maintains a single lender when possible.

Minnesota Student Educational Loan Fund (SELF)

This loan is available to graduate and undergraduate students who either need additional aid beyond the amount offered or have no financial need. Students must be enrolled in a degree-granting program.

Eligibility is not based on financial need, nor is it limited by family income levels. It requires a co-signer and is a credit worthy loan.

Undergraduates may borrow up to \$4,000 per year less any amount obtained through other student loan programs. Total amount of aid received can not exceed the cost of education.

Interest rate is variable and the borrower is responsible for payment of interest while in school. Contact the Financial Aid Office for more information and for application forms.

North Dakota Non-Subsidized Loan

North Dakota makes a non-subsidized 8 percent student loan available to North Dakota residents. Eligibility criteria is similar to the Federal Stafford loan with two exceptions: (1) students pay interest while in school, and (2) it is not based on financial need. Applications are available from the Financial Aid Office.

Supplemental Loans for Students (SLS) and Loans to Parents (PLUS)

These loans are available through private lenders and offer assistance to students and parents who cannot demonstrate financial need or need more assistance than is available in the Stafford Loan. Both SLS and PLUS can be used to replace the contribution which is expected from students and families. Applications and information brochures are available from the MSU Financial Aid Office and from lenders. Before applying for a SLS or PLUS, students should apply for all other types of financial aid. Interest rate is variable and is set annually.

Campus Employment

Part-time job opportunities which are not dependent on financial need are available in the residence halls, dining service, campus security and other campus departments. The Job Shop located in the Student Union maintains

information about on-campus and off-campus employment.

Short-Term Loans

Short-term loans are available to students who are enrolled full time at MSU. Funds are limited and loans can only be made as long as funds are available. Short-term loans are designed to assist in unforeseen family, medical or personal circumstances. The maximum amount students can borrow is \$100 and it must be repaid within 90 days, but usually not later than the last class day of the quarter. Short-term loans carry an annual interest rate of 9 percent with a minimum charge of \$2.00. Checks are printed and usually ready to pick up at the Business Office one work day after the application is approved.

International Student Assistance

Non-U.S. residents planning to attend Moorhead State University must plan to provide their own finances. International students in the United States on student visas are not eligible for Perkins, SEOG, Work-Study, Minnesota State Grants, Pell Grant or the Stafford Student Loan Program. Immigrant visa status may qualify students for these programs. Foreign students may qualify for a student loan under the Student Educational Loan Fund. Vietnam refugee students are eligible for the various federal student aid programs. Contact the Foreign Student Advisor for financial planning information.

Loan Counseling

All students who are scheduled to receive a student loan (Stafford, SELF, SLS) must attend loan counseling workshops. Entrance counseling attendance must be documented in the financial aid file before any loan proceeds are disbursed. Before graduating or leaving school, loan recipients must attend an Exit counseling session. Information regarding this requirement is available from the Financial Aid Office. Perkins loans borrowers have separate loan counseling requirements.

Policy Standards for Financial Aid Satisfactory Academic Progress

Federal and state regulations require that all students maintain satisfactory academic progress toward completion of the requirements for a degree or certificate to receive student financial aid. The following standards, specified by the Higher Education Amendments of 1986 (Public Law 99-498, Section 484 (c)), are effective with enrollment beginning fall 1990.

Satisfactory Academic Progress Standards for receipt of student financial aid apply to all students, including graduate students, whether or not they are currently receiving any student aid. If students are otherwise ineligible for financial aid, the progress standards will not immediately affect them. Students will continue to be informed of any unsatisfactory progress in the event that

they apply or become eligible for financial aid in the future.

Failure to maintain satisfactory progress results in ineligibility for the following financial aid programs: Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan (formerly NDSL), College Work-Study, Stafford Loan Program (formerly GSL), PLUS, SELF and Supplemental Loans, Minnesota State Grant and Indian Scholarships. Monitoring of academic standing will be done quarterly and satisfactory academic progress is done yearly. Students will be advised of academic status by letter if they fail to meet the standards.

Maintaining Satisfactory Progress Grade Point Average

Students will be required to maintain academic standards as required in the university *Bulletin*. All appeals regarding GPA should be directed to the Office of Academic Affairs for review. These are the existing academic standards at the time of publication.

Credits

In order to maintain satisfactory academic progress for financial aid purposes, undergraduate students must complete a minimum of 75 percent of their total cumulative credits attempted at Moorhead State University including accepted transfer credits with a grade of "D" or better (or a "P" or "S" if enrolled on a pass/fail or satisfactory/unsatisfactory basis). At the time of review, done at the end of each academic year, students who fail to complete a minimum of 75 percent of their total cumulative credits will be placed on financial aid termination. The university reserves the right to withdraw aid after two (2) quarters if it becomes readily apparent that students will not maintain satisfactory academic progress.

Courses not included in calculating satisfactory academic progress: (1) Enrollment and completion of the remedial course, Business Education 090, will not be included in the calculation of satisfactory academic progress nor is it included in enrolled credits eligible for financial assistance; (2) Courses taken for audit are not used in the calculation of Satisfactory Academic Progress and do not count as credits attempted or earned for purposes of financial aid.

Length of Eligibility

1. Undergraduate students will become ineligible to receive funding after completing 17 quarters of full-time equivalent (F.T.E.) enrollment at Moorhead State University or after they have attempted 256 total credits, including accepted transfer credits, whichever comes first. Grades of Failed (*F*), Unsatisfactory (*U*), Incomplete (*I*), and Withdrawn (*W*) count as credits attempted but not earned. Pell funding is limited to 15 quarters of full-time equivalent enrollment for students

who first received Pell Grant money after June 30, 1987. If students reach these limits during the academic year, fall or winter quarter, financial aid termination will be effective the following quarter.

2. Half-time students (6-8 credits per quarter) and three-quarter time students (9-11 credits per quarter) maximum number of quarters of enrollment will be pro-rated. Three-quarter time students will be allowed up to 23 quarters of three-quarter time enrollment while half-time students will be allowed to enroll for a maximum of 34 half-time quarters.
3. Students who are not enrolled in a graduate program and are seeking a second bachelor's degree, a certification or licensure, are limited to four (F.T.E.) quarters of attendance or 64 attempted credits for financial aid eligibility, whichever comes first. If students reach these limits during the academic year, fall or winter quarter, financial aid termination will be effective the following quarter.
4. Graduate students must complete their program within 7 graduate full-time equivalent quarters. If students reach this limit during the academic year, fall or winter quarter, financial aid termination will be effective the following quarter.
5. Programs that require longer than these limits must be individually approved by the Financial Aid Office through an appeal process. Students must submit for review an academic plan approved and signed by their advisor indicating the quarters remaining for degree completion, a course plan for each remaining quarter and a projected graduation date. Submission of an appeal does not indicate automatic approval of the academic plan. Each appeal will be reviewed on a case by case basis.

Withdrawals

If students withdraw from the university before financial aid is available for distribution, they will not receive any aid since no progress has been made toward a degree. Standard university refund policies and procedures will be followed when students withdraw for any reason during the quarter after student aid has been distributed.

Tri-College, Studies Abroad, MSU-Akita and State University Common Market. These programs are included in this standard according to the policies of the university. Please refer to the *Bulletin* for further information on these programs.

Repeated Courses

Students who repeat a course may receive financial assistance more than once for enrollment in the same

course. When a course is repeated, each enrollment is included in calculating the percentage of successfully completed credits at the end of the academic year and the total number of attempted credits is used to determine length of eligibility. For example, a student enrolls for a four-credit course, fails it and the following quarter re-enrolls in the same course and earns a C. That student would be considered as having been enrolled in 8 credits, but successfully completing only 4 credits. Repeat courses are only calculated once in determining GPA or total credits earned. Refer to the *Bulletin* for complete university policy regarding course repetition.

Not Meeting Minimum Standards

At the end of each regular academic year (i.e., June), students who have received financial assistance for that year will be evaluated for satisfactory academic progress based upon the satisfactory completion of a minimum of 75 percent of their attempted credits. Undergraduate students who have completed 17 full-time equivalent quarters or have attempted 256 total credits, including transfer credits, will be placed on financial aid termination whenever these limits are reached, even if they should occur during the academic year (fall or winter quarter). Students who have failed to meet the minimum standards will be notified by letter that they are no longer eligible to receive financial aid.

Re-establishing Eligibility for Financial Aid

1. Students who fail to complete 75 percent of their attempted credits and are placed on termination may remove their termination status by bringing their cumulative MSU credits completed above 75 percent of credits attempted.
2. If Incomplete (I) credits are a factor in failure to maintain satisfactory progress, subsequent successful completion of these credits by midterm of the next quarter may be used to re-establish eligibility for aid.
3. Students may appeal their financial aid termination status to the Financial Aid Office Appeal Committee. Most appeals are made on the basis of mitigating circumstances (major illness, death in the family, serious accident, etc.), or the completion of additional course work resulting in a grade of "D" or better.
4. Reinstatement for a completed Incomplete (I) grade or completed summer quarter study is not automatic.

The Appeal Committee will inform students promptly in writing of the decision. If not satisfied with the decision, students may appeal further to the university Financial Aid Appeal Committee.

Definition of Terms

Credits attempted is defined as the number of hours for which a student is officially enrolled at the time student aid funds are disbursed at the beginning of each term.

Academic year is the period from September to May (fall, winter and spring quarters). If a student is enrolled for only one (or two) quarter(s) of an academic year, satisfactory progress is evaluated on that basis only.

Credits earned includes grades designated as: A,B,C,D,X or S. Credits with grades of "F", "I", and "W" do not count as credits earned but do count as credits attempted.

Cumulative attempted credits is defined as the total number credit hours for which a student has officially enrolled during his/her attendance at Moorhead State University and includes accepted transfer credits.

Scholarship Funds

Freshman Scholarship Program. Through the MSU Foundation more than 200 MSU Foundation Scholarships are awarded annually to incoming freshmen.

These scholarships are awarded in two categories: Cum Laude, based on academic promise as indicated by high school class rank, and admission test scores. Awards range up to \$750.

Presidential recognizes leadership ability or other special talents. Those persons awarded scholarships have usually placed among the upper 25 percent in class rank and test scores. Awards range up to \$600.

National Merit Finalist provides \$2,000 to entering freshmen who are National Merit Finalists. These awards are renewable to \$8,000; \$2,000 per year for four years.

Community College Transfer Scholarships are awarded to graduates of a two-year community college program. Awards range up to \$350 and are based upon a minimum grade point average (GPA) of 3.5 and community college counselor recommendation.

Upper-class Student Scholarships. Moorhead State, through the cooperation of the MSU Foundation, the Charles and Ellora Alliss Foundation and various other donors, now provides a significant number of awards for upper-class students. Applications are available during January at the Financial Aid or Scholarship Offices.

ROTC Scholarships. Both the Army and Air Force ROTC Departments offer scholarship opportunities to students who take part in a ROTC program. Scholarships pay for full tuition and fees, a book allowance and \$100 a month. To apply, go to the Army or Air Force ROTC departments in the P.E. Building at NDSU.

Honors Apprenticeship Scholarships cover tuition and fees and are renewable for four years. To receive the award, students apprentice in academic departments for eight hours each week, acquiring hands-on training and skills in their area of interest. Apprenticeships are

awarded to students in the top 7 percent of high school rank and ACT scores.

Application. Special application forms are distributed by the Scholarship Committee among high school and community college counselors. Should application forms not be available, write to the Scholarship Office, Moorhead State University.

ACADEMIC INFORMATION

Change of Requirements

Within practicable limits, academic policies and requirements at Moorhead State University are not retroactive, and students entering a degree program can expect to complete that program under the requirements specified at the time they actively enroll in the program, unless enrollment is interrupted for more than one year.

When a required course for a previous program is no longer offered, students may substitute another course or courses with the approval of the faculty dean or director.

Individual exceptions to major and minor requirements as listed in the university catalog, including the waiver or substitution of courses, are subject to the approval of the department chairperson by written notice to the Registrar at the time such approval is granted. Records of approved changes will be retained in student files by the Registrar until graduation.

Academic Year

The academic year at Moorhead State University is arranged into fall, winter, and spring quarters of approximately 11 weeks each and a summer quarter comprised of two five-week sessions and special short-term workshop sessions.

Students may enter the university at the beginning of any term although the academic year begins officially with the fall quarter.

Units of Credit

The unit of credit at Moorhead State University is the quarter hour representing one period (50 minutes) of study per week for 11 weeks or a suitable equivalent.

For transfer students, one semester hour of credit is equivalent to 1.5 quarter-hour credits. One credit unit from schools using the 4-1-4 plan is considered equivalent to six quarter-hour credits except where the school issuing such credit assigns a different value.

Graduation Requirements (Bachelor's Degree)

At least 192 credits are required for a four-year bachelor's degree.

Accumulation of 192 credits, alone, does not result in a degree. Credits must be earned as part of a baccalaureate program approved by the Minnesota State University Board. Students are responsible for being certain their course work fulfills requirements for a major in their designated degree.

Candidates must have a grade point average (GPA) of at least 2.0 for all credits applied to the degree program and for all courses attempted at Moorhead State University.

Candidates must complete a Liberal Arts requirement of at least 64 credits with a GPA of at least 2.0 for all courses applied to the requirement and, in the case of transfer students, a GPA of at least 2.0 for all MSU courses applied to the Liberal Arts requirement.

The degree program must include at least one major with a GPA of 2.0 or above.

No minor is required, but a GPA of at least 2.0 must be attained in any minor presented for graduation.

Candidates must be enrolled as a resident student (registered and paid at MSU) (A) for at least three quarters, (B) for at least 45 of the last 96 credits, (C) for at least 8 of the last 12 credits applied to the degree, and (D) at least 8 credits must be earned from the MSU department which awards the major.

No more than 15 correspondence credits may be applied.

Candidates who have attended a community college must complete at least 96 credits from MSU or other four-year college.

An application for graduation must be submitted to the Records Office prior to the quarter in which candidates expect to complete graduation requirements. Students must secure the approval of each major and minor advisor and department chairperson before submitting the application. Candidates for graduation must have official transcripts from all previous post-secondary institutions on file in the Records Office. No student will be eligible for graduation while in special or non-degree status.

Candidates for graduation with a teaching major shall fulfill all Teacher Education requirements listed in the Education Department section of this catalog.

Specific exceptions to these graduation requirements are listed under such programs as External Studies.

Liberal Arts

All university baccalaureate degree programs require the completion of 64 hours in Liberal Arts. That requirement is designed to guarantee that students will have had introduction into those areas of knowledge traditionally identified as the Liberal Arts: composition and literature,

natural sciences, social sciences, humanities, communication and symbolic systems.

Only courses currently approved for Liberal Arts credit may be counted toward completion of the 64 credits required. Approved courses are marked by the Liberal Arts Division letter (A, B, C, D or E) in each quarter's class schedule. A complete list of all currently approved courses is available from the Office of Academic Affairs.

Division A: Freshman English—one year required. English 101, 102, 103.

Division B: Natural Sciences—at least 10 credits required. Designated courses in astronomy, biology, chemistry, geography, and physics.

Division C: Social Sciences—at least 10 credits required. Designated courses in anthropology, economics, geography, history, political science, psychology, multicultural studies, and sociology.

Division D: Humanities—at least 10 credits required. All humanities department courses, plus designated literature courses in English and foreign languages, and designated courses in American studies, art, multicultural studies, music, philosophy, Scandinavian studies and speech.

Division E: Communication—Language—Symbolic Systems—at least 10 credits. Designated courses in English and foreign languages, plus designated courses in mathematics, philosophy, and speech.

Courses in students' major discipline may not be applied to the Liberal Arts requirement. This limitation applies to one major only; courses in a second major discipline may be counted toward Liberal Arts.

Courses in a minor or in "related requirements" specified by a major may be applied to the Liberal Arts requirement program.

Courses taken for Pass/No Credit grades may not be applied to the Liberal Arts. MDS (New Center) courses may not be applied to Liberal Arts except by students officially admitted to the New Center.

In addition to the graduation requirement of a GPA of 2.0 in all MSU courses, a 2.0 GPA is required in all MSU courses applied to students' Liberal Arts program.

In addition to the approved designated Liberal Arts courses, students enrolled at MSU before 1981 may apply courses from the General Studies lists in effect before fall 1981.

Freshman Year Requirements

No specific courses are required during the freshman year at MSU, except that freshmen will normally complete the English 101-102-103 sequence. (See English Department for information about the diagnostic examination in English by which students may either earn exemption or substitute advanced courses.)

Freshmen will normally enroll in courses at the 100-level or certain 200-level courses with approval of their advisors, who will assist them in making course selections.

Multiple Majors and Degrees

Students completing two or more majors with different degree designations will be awarded the more appropriate degree, except that the B.S. degree shall be given if one major is in a field of professional teaching.

Students who seek more than one baccalaureate degree will be required to complete at least 45 credits beyond the minimum of 192 credits applied to the first degree.

Students who hold a previous baccalaureate degree from Moorhead State University or from another institution whose degree is recognized by MSU may earn an additional bachelor's degree (but not an associate degree) by A) completing at least 45 resident credits at MSU; B) meeting all MSU course requirements for the degree program, including at least 8 credits from the MSU department awarding the degree and including an approved major and teacher education requirements for any teaching major; and (C) maintaining at least a "C" average in all studies at MSU.

Students with a previous Moorhead State University degree may add another major or minor by completing any additional requirements as certified to the Registrar by the department offering the major or minor and by the education department in the case of any teaching major.

Worksheets are available from Admissions and Records to document requirements for students seeking additional degrees.

Individualized Major

Students may develop a multidisciplinary individualized major composed of courses from several related disciplines selected in consultation with a faculty advisor.

The form used to petition for an individualized major is available from the Office of Academic Affairs, which has the responsibility to review the petition and to determine if it merits approval.

(See Individualized Major under the Academic Programs section of this *Bulletin*.)

Minors Through Exchange

The Tri-College University commissioners have agreed that students completing minors on one of the other campuses should be given recognition for this accomplishment on their graduation transcripts. Thus a Moorhead State student could complete a minor in Agronomy, Geology or Horticulture at one of the other TCU schools, for example, and upon graduation that student's transcript would so indicate. Procedures for implementation of this policy are as follows:

Students should request that the chairperson of the department in which the minor has been taken send a memo indicating completion to the Moorhead State Registrar immediately after the minor has been finished.

Students should indicate the minor on the Application for Graduation form.

Such TCU minors may be elected only if equivalent minors are not available at MSU.

Teaching Majors and Minors

Requirements for the major programs in elementary education, secondary education, and special education are listed under the respective departments in this catalog. Teacher Education Requirements are listed under Education.

Associate Degrees

Moorhead State University offers two-year associate degrees as follows:

- (A) Associate in Arts in Liberal Arts
- (B) Associate in Science

Each program requires:

1. At least 96 quarter credits, including at least 32 credits in courses from MSU.
2. At least 16 MSU resident credits.
3. A GPA of at least 2.00 in all MSU courses applied to Liberal Arts, a 2.00 GPA in all courses applied to the A.A. or A.S., and a 2.00 in all courses taken at MSU.

Students who are admitted to and complete an associate degree program and who decide to continue with a baccalaureate program may do so by meeting all additional requirements for the bachelor's degree. Liberal Arts requirements for each degree program must be fulfilled with courses applicable to Liberal Arts in the baccalaureate curricula.

A.A. in Liberal Arts

The candidate for the Associate in Arts in Liberal Arts will complete an approved Liberal Arts program of 64

credits for the bachelor's degree with a GPA of at least 2.0. Note that requirements include at least 10 credits in the Liberal Arts Divisions B,C,D,E, and one year of Freshman English.

Remaining electives to fulfill the 96-credit requirement are subject to the approval of the student's advisor.

A.S. in Career and Secretarial Fields

The candidate for the Associate in Science degree will complete at least 45 credits in Liberal Arts courses, including a year of Freshman English, and at least 6 credits in Liberal Arts Divisions B, C, D and E. Specific requirements for the following associate curricula are listed under the respective departmental sections of this Bulletin (see index): A.S. in Career Education A.S. in Medical Records Technology A.S. in Secretarial Science

Resident Credits

Resident credits are those registered and paid for at Moorhead State University while attending courses offered on the Moorhead State University campus, in Tri-College or Minnesota State University Common Market courses or other designated exchange programs, in workshops or field trips originating from the campus and in evening courses on campus.

Non-resident credits are those earned at another college (except in authorized exchange programs), those registered and paid for at the other Tri-College institutions, those credits earned through Advanced Placement, the International Baccalaureate, or the College Level Examination Program, in off-campus courses, or in courses offered through local or network television without class sessions on campus.

Minnesota State Universities do not offer correspondence courses. Up to 15 quarter hour credits of correspondence study from another accredited institution may be applied to an undergraduate degree program.

Armed Service Credits

Study completed during military service through the United States Armed Forces Institute will be evaluated at the time of admission or re-enrollment to determine if credit will be awarded at Moorhead State University. Credit will be granted for military schools placed in the upper-division baccalaureate category by the ACE Guide.

Students should discuss the possibility of such credit with the Registrar.

Transfer of Credits

Transfer credit from institutions accredited by regional associations (North Central, Middle States, etc.) will normally be accepted by Moorhead State University subject to limitations in this catalog.

Effective winter quarter 1991-92, a grade of "C" shall be the minimum for any course to transfer.

Transfer students will receive worksheets indicating the extent and distribution of credits which are accepted by Moorhead State University toward the Liberal Arts Requirement.

Courses similar to those allowed for the Liberal Arts Requirement at Moorhead State University will usually be considered equivalent for the purpose of meeting course requirements. However, the student must complete a total of at least 64 credits in Liberal Arts courses and meet all distribution requirements.

A maximum of 8 credits will be granted for courses from religion departments of regionally accredited public and private institutions. Such credit is not applicable to any division of the Moorhead State Liberal Arts Requirement. No courses in applied religion will be accepted.

Credit is not given for departmental examinations or waivers of credit from other institutions.

Transfer credits will not be entered on students' permanent records at Moorhead State unless they are applicable to students' degree programs.

Two-Year Colleges

Transfer students who have completed an Associate in Arts program in liberal arts at a regionally accredited Minnesota Community College will usually be deemed to have met the Liberal Arts Requirement at Moorhead State.

Transfer students who have completed an Associate in Arts program at a regionally accredited junior or community college outside of Minnesota will usually be deemed to have met the Liberal Arts Requirement if the program includes at least 60 credits, with at least a 2.00 GPA, in courses comparable to Liberal Arts courses at Moorhead State University.

The Liberal Arts Requirement will not be waived if the Associate in Arts degree was earned at a four-year college or university. Junior or community college transfer students are not eligible for a waiver of the Liberal Arts Requirement if the Associate in Arts degree is awarded after the student matriculates at Moorhead State University.

Transfer credits may not be applied to meet an area requirement at Moorhead State University (liberal arts, major, or minor) unless they also meet the corresponding GPA requirement for the academic area. No more than 96 credit hours in total from two-year (or other non-baccalaureate degree) institutions may be applied toward a baccalaureate degree at Moorhead State.

After fall 1995, Moorhead State University will accept in transfer, for full-credit, college-parallel general education courses offered by institutions with regional accreditation to provide transfer-level general education courses leading to the following degrees in Minnesota: associate degrees in arts, sciences, or applied sciences, and the baccalaureate degree.

Effective winter quarter 1991-92, Moorhead State University will accept in transfer, as lower-division electives, a maximum of 24 credits of college-level vocational or technical courses offered by institutions with regional accreditation.

Effective winter quarter 1991-92, and until fall quarter 1995, Moorhead State University will accept for transfer, as lower-division electives, a maximum of 24 credits of vocational or technical courses offered by Minnesota public Technical Colleges.

After fall quarter 1995, no transfer credit will be granted if the credit has been earned from any institution without regional accreditation.

Moorhead State University will define vocational or technical courses as those which are part of curricula which (A) are advertised as preparing the student for a specific vocation in two or fewer years, or (B) require fewer liberal arts credits than for pre-transfer Associate in Arts programs, or (C) require more than one-fourth of all credit in a career field, or (D) have Specialist, Technician, Practitioner, or similar vocational focus as part of the program title, or (E) are recognized by a degree or certificate other than Associate in Arts.

Internship, work experience, communications and mathematics courses with vocational emphasis, and business courses beyond the pre-transfer level will be included as part of the 24 credit vocational/technical maximum.

Specific requirements in students' major or minor field of study at Moorhead State University may be waived upon evaluation of vocational or technical courses judged by MSU faculty review to be comparable or equivalent to courses offered by Moorhead State University.

Full credit for pre-transfer business courses from regionally accredited institutions will normally be limited to the following: one year each of beginning accounting, business law, shorthand, and typing (no credit for beginning typing); and one course in introductory business (not applicable to MSU major requirements). Courses in intermediate accounting I and II, and introductory courses in corporate finance, management and marketing must be validated by an MSU departmental examination before they will be transferred at full credit.

Full credit will also normally be given for an introductory course providing a general survey of a career field.

Advanced Placement

Moorhead State University will award credit for successful completion of an approved Advanced Placement study program under the auspices of the College Entrance Examination Board. Such programs are available to promising students in participating high schools.

To receive Advanced Placement credit, students must (1) have the approval of the high school, (2) complete the program successfully (usually with a score of 3 or better), and (3) enroll at Moorhead State University following high school graduation.

All records must be forwarded from the College Entrance Examination Board, and the university reserves the right to evaluate such records and determine the credit to be assigned, normally four (4) credits per examination.

Credit earned through AP examination is not resident credit and may not be used to satisfy resident credit requirements for graduation.

AP, IB, or CLEP credit will not be granted in the same academic discipline.

Credit by Departmental Examination

Students may challenge a course at Moorhead State University through an examination for credit by arrangement with the appropriate department of study. The form must be presented at the Records Office to verify current enrollment.

Credit may not be granted by examination if students have previously or currently registered for an equivalent course.

An examination for credit may be announced by the department chairperson, or students may secure written permission for such an examination from the department chairperson.

Following such announcement or written permission, students must secure an "Examination for Credit" form at the Office of Academic Affairs.

The completed form must be presented at the Business Office, where the form will be stamped and a receipt issued upon payment of an examination fee of \$5 per credit. The stamped form will be collected as an admission slip at the time of the examination.

A grade of Pass or Fail ("S" or "F") and the appropriate number of credits will be marked on the form, which will then be signed by the department chairperson and forwarded to the Office of Academic Affairs for approval.

The approved form will be submitted to the Registrar. If students receive a Pass grade, the credit will be placed on the permanent record. If the examination has been failed, the form will be placed in a student's file but not entered on the transcript.

No student may repeat any examination for credit.

The International Baccalaureate

Moorhead State University will award four (4) credits for International Baccalaureate examinations if the examination score is at least 5. The following are approved IB examinations:

Biology
Chemistry
Economics
English
History
Languages
Mathematics
Philosophy
Physics

IB credit may be used toward the Liberal Arts Requirement. However, no more than 4 credits may be applied to any single liberal arts category. AP, IB, or CLEP credit will not be granted in the same academic discipline.

Credit earned through IB examination is not resident credit and may not be used to satisfy resident credit requirements for graduation.

Credit by CLEP Examination

The Registrar at Moorhead State University will provide information about the College Level Examination Program (CLEP) and will administer the CLEP Subject Examinations to interested students.

Procedures will be the same as for Credit by Departmental Examination except that the Registrar will administer the examination. The cost for each examination is \$38.

Four (4) credits will be awarded for successful performance on each CLEP Subject Examination according to standard scores recommended by the Council on College-Level Examinations. However, credit will not be given to students who have previously or currently enrolled in courses in the same subject.

Following are the approved Subject Examinations:

American Government
American History I and II (4 each)
American Literature
Analysis and Interpretation of Literature
Calculus
College Algebra
College Algebra-Trigonometry

College Composition
 College French
 College German
 College Spanish
 Computers and Data Processing
 Educational Psychology
 English Literature
 Fortran Programming
 Freshman English
 General Biology
 General Chemistry
 Human Growth and Development
 Introduction to Management*
 Introduction to Marketing *
 Introductory Business Law
 Introductory Sociology
 Macroeconomics
 Microeconomics
 Trigonometry
 Western Civilization I and II (4 each)

* May be used to validate lower-division course work in these fields.

Credit earned by CLEP examination may be applied to Liberal Arts requirements but may not be applied to a major curriculum except with departmental approval.

The CLEP Subject Examinations are recommended only for students with advanced knowledge in subject fields not usually acquired in typical high school curricula.

Credit earned through CLEP examination is not resident credit and may not be used to satisfy resident credit requirements for graduation.

AP, IB or CLEP credit will not be granted in the same academic discipline.

Credit will also be awarded for equivalent performance on CLEP Subject Examinations taken at other test centers, including the military services. CLEP credit is introductory level course credit. Students who wish to earn credit through the CLEP examination process after matriculating at Moorhead State University must take the examination(s) during their first quarter of attendance at MSU.

Students are limited to a maximum of 16 credits through the CLEP process.

Credit is not given for the CLEP General Examinations.

Pass-No Credit Grades

Students with sophomore, junior or senior standing may take courses for Pass-No Credit grades in areas outside the major or minor discipline.

No course with Pass-No Credit grades may be applied to Liberal Arts.

Students may take no more than one course per quarter for Pass-No Credit grades. Students may apply up to 24 credits under the Pass-No Credit option to a baccalaureate degree program.

No course which students have previously failed may be repeated under the Pass-No Credit option.

Credits earned under the Pass-No Credit option will not be included in computing grade point averages.

A grade of "S" will be recorded for any course successfully completed under the Pass-No Credit option. No entry will be made if students fail to earn credit.

A Pass-No Credit agreement form, available from the Records Office, must be signed by the student and the advisor and returned to the Records Office on or before the tenth class day of the quarter (fifth class day of a summer session.)

Pass-Fail Courses

Certain courses which offer insufficient opportunity for graded evaluation may be offered with only the grading options of pass "S" or Fail "F." Student teaching and internships are always to be graded on a pass-fail basis.

The Vice President for Academic Affairs may grant permission for other courses to be graded pass-fail.

All students in an approved course shall be graded on the pass-fail basis.

Auditing Courses

Students who wish to audit or attend a course without seeking credit must be admitted to the university, register for the course, and pay full tuition and fees.

To audit a course, students shall attend class sessions but are not required to complete assignments or projects, participate in discussions, take examinations, or meet other requirements.

Students may declare the intent to audit a course by submitting a Course Audit form signed by the instructor by the tenth class day of a quarter (fifth class day of a summer session), or by notifying the instructor at the time of registration in an evening class, workshop or off-campus course.

Students may not receive credit for auditing a course except by re-enrollment for credit and successful completion of the course in a subsequent quarter.

An entry of "V" (Visitor) is made on a student's permanent academic record when a course is audited without credit.

Grades and Grade Points

All study for university credit is recorded with the following grade designations:

- "A" Excellent— 4 Grade points per credit
- "B" Above Average— 3 Grade points per credit
- "C" Average— 2 Grade points per credit
- "D" Passing —1 Grade point per credit
- "F" Failing— 0 Grade points per credit
- "I" Incomplete
- "S" Satisfactory
- "X" In Progress
- "V" Audit (Visitor)
- "W" Withdrawal

Grade Point Average

The grade point average (GPA) is computed by dividing the number of grade points earned in a given course or courses by the number of credits attempted.

Credits with grades of "S", "I", "X", "V", or "W" are not included in computing the grade point average.

Credits with grades of "F" are included in computing the grade point average.

Incomplete Credits

The mark of "I" (Incomplete) is granted when students are unable to complete course requirements for reasons beyond their control and when arrangements have been made with the instructor before the end of the quarter.

It is the responsibility of students to develop a contract to meet the instructor's requirements for making up an Incomplete. Ordinarily, the Incomplete must be made up during the next quarter in which a student is enrolled. (Students receiving financial aid may have specific requirements. See Financial Aid section.)

When requirements have been met, the instructor will notify the Registrar of the replacement grade.

Repeating Courses

When a course is repeated, only the higher grade will be used to compute the grade point average. However, repeating a course more than once will result in the removal of only one previous grade from the GPA computation.

To assure that the GPA is corrected, students must submit a "Notice of Repeated Course" form at the Records Office: All course attempts will remain on permanent academic records.

Students may not repeat a course to improve a previous grade of "C" or better in that course. Such registration will be treated as an audit.

Academic Standing

The cumulative grade point average for all courses attempted at Moorhead State University is the basis for determining academic standing.

Students with a GPA of 2.0 or better are considered to be in satisfactory academic standing.

Academic Suspension

Moorhead State University's suspension policy requires students to achieve the following cumulative grade point averages at the points indicated:

24 or more attempted credits, including at least 12 credits with grades other than S—1.60*

60 or more attempted credits—1.90

135 or more attempted credits—2.00

Attempted credits include all courses on students' records, including withdrawals, repeated courses and incompletes. Students who fall below these standards are subject to suspension; i.e., could be suspended at the end of the current quarter. Transfer credits are included in the attempted credit number, but only Moorhead State courses are computed in the student's GPA.

Students who are subject to suspension may not preregister for any quarter.

Students who are subject to suspension are eligible to continue enrollment at MSU beyond the current quarter if they either (1) raise their cumulative GPA to the appropriate minimum listed above by the end of the quarter, or (2) attain a quarterly GPA of 2.25. Students whose quarterly GPA is 2.00-2.24 may appeal.

Students subject to suspension who do not fulfill either of these requirements are suspended for three quarters. They may appeal to the Suspension Appeals Committee for reinstatement before the suspension is completed, but at least one quarter of suspension is mandatory. A second suspension is normally permanent, with a minimum of one full year of suspension required.

All students who become subject to suspension are immediately notified of their status on their quarterly grade reports. They also receive letters explaining MSU's suspension policy, specifying what they must achieve to continue enrollment after the end of the current quarter. Students subject to suspension may not preregister for the next quarter.

All students whose GPA is below 2.00 are considered in potential academic difficulty and are notified by the words "academic warning" printed on their grade reports.

*Because in their first few quarters New Center students often take only MDS courses, which yield credits but no grade points, New Center students may not become subject to suspension because of low grades until they have enrolled for at least 12 credits of graded (non-MDS) courses. However, MDS students, whether or not they are taking graded courses, are required to complete 70 percent of the credits for which they are registered. MDS students who fail to achieve a 70 percent completion rate may become subject to suspension, regardless of GPA, at the end of any quarter after they have attempted 24 credits.

A complete explanation of satisfactory academic progress rules for New Center students is available in the New Center for Multidisciplinary Studies Student Handbook.

Academic Honors

Three levels of honor students are recognized annually at the spring quarter Honors Convocation: (A) Honorable Mention for those with a GPA between 3.25 and 3.49; (B) Honors for those with a GPA between 3.5 and 3.74; and (C) Special Honors for those with a GPA between 3.75 and 4.00. To be eligible, students must have completed either (1) at least 24 credits during the fall and winter quarters of the current year, or (2) a cumulative total of at least 100 credits with at least 50 graded credits at MSU and enrolled fall or winter quarter of current year.

The Dean's list, published at the close of fall, winter, and spring quarters, includes all students who maintained a GPA of at least 3.25 for that quarter while completing a minimum of 14 graded credits.

Students who complete at least 96 credits at Moorhead State University as candidates for baccalaureate degrees may graduate with the following honors: (A) Cum Laude, representing a cumulative GPA of 3.4 or better; (B) Magna Cum Laude, 3.6 or better; and (C) Summa Cum Laude, 3.8 or better. Such honors are computed only from the cumulative GPA at Moorhead State University.

Examination credits, AP, IB or CLEP credits may not be counted toward the 96 credit total.

Transfer students from Concordia College or North Dakota State University who have enrolled for MSU courses under the Tri-College University course exchange program may apply such MSU courses to fulfill requirements for graduation with honors. Such students should mark their request for this option on the application for graduation in order to qualify for honors.

Some departments of study may award departmental honors to students who meet those requirements established by the departments.

Classification of Students

Students at Moorhead State University are divided into classes as follows: (A) Freshman 0-44 credits; (B) Sophomore 45-89 credits; (C) Junior 90-134 credits; (D) Senior 135 or more credits.

Special students are admitted on an individual basis and classified separately since they are not participating in degree programs.

Advisor Assignment and Changes

Students are assigned to a faculty advisor or student advisor at or before the time of first registration.

Any change of advisor may be made with the approval of the Chairperson of the department in which the student plans to seek a major and must be reported on a form available from the Records Office.

Student advisor services are available in most departments to supplement faculty advising.

Registration Procedures

Prior to registration, students will plan a program with an advisor, who will sign the Advisor Approval Card.

Registration must be completed and all tuition and fees must be paid to the Business Office before published deadlines in order to avoid assessment of late registration fees.

Class schedules and descriptions of the registration procedures for any quarter may be secured from the Records Office within a few weeks before the quarter begins.

Opportunities for advance registration for returning students, transfer students, or beginning freshmen may be made available according to schedules and procedures specified by the Registrar.

Evening Course Registration

Evening classes on campus are considered as resident courses and are open to both part-time and full-time students.

Students who register only for evening courses may do so at the first class meeting or at the regular time for registration. Registration for evening courses is closed after the second class session.

Off-Campus Registration

Moorhead State University offers off-campus evening courses at several community centers within an approximate radius of 100 miles.

Registration for off-campus courses should take place at the first class session but may be completed at the second session upon payment of an additional \$5 late registration fee.

Credits earned in off-campus courses are considered to be non-resident credits.

Inquiries about off-campus courses should be directed to the Director of Continuing Education.

Late Registration

Tuition and fee payments that are made after the last scheduled payment day are late and subject to a surcharge in accordance with the following schedule:

Payment for Initial

On-Campus Registration

Days Late	Amount
1 class day	\$10
2 to 5 class days	\$15
6 to 10 class days	\$25
After 10 class days	\$35

Program Change Fees for Added Classes

Days	Amount
1 to 3 class days	\$ 0
4 to 10 class days	\$ 5
After 10 class days	\$10

Reinstatement fees for classes cancelled due to failure to pay, \$15 plus the \$35 late fee.

Payment for Off-Campus and Evening Registration

Weeks Late	Amount
One week	\$ 5
Two weeks	\$10
After two weeks	\$15

Course Load

To register for more than 18 credits during any quarter (9 credits during a summer session) students with fewer than 90 credits must have an excess credit form approved by the Academic Affairs Office. No student may register for more than 20 credits without an excess credit permit from the Academic Affairs Office.

The Excess Credit Permit must be approved by both the student's advisor and the faculty dean or director.

Courses taken in evening classes, either on-campus or off-campus, are included in determining the course load.

Tri-College University Registration

Students who are enrolled at Moorhead State University, North Dakota State University or Concordia College may complete a portion of their course work at either of the other two institutions through the Tri-College University.

To register for regular daytime classes, students report to the registration clerk at the home college to clear arrangements for a class at another college.

Tuition and fees for a Tri-College course will be the same as for equivalent credit at the home college, and students must arrange for payment of such charges at the home college.

If limited enrollment in a course is exceeded, priority will be given to students who are already admitted to degree programs at the college offering the course.

Credits earned in Tri-College courses at another college are considered as resident credits at Moorhead State University if the credits are registered and paid for at MSU.

Registration for evening courses under the Tri-College agreement may take place at the first class session, and no advance permission from the home college is required. Later registration for evening courses must be completed through the Registrar of the home college by the time of the second class meeting.

Students must observe all registration and academic policies of their home colleges, including arrangements for withdrawals, pass/no credit and incompletes.

Change of Program—Adding or Dropping Courses

Program changes include adding courses or withdrawing from courses after students have made class reservations.

A class may be added within the following time limits only:

- A. Fall-Winter-Spring—through the tenth class day of the quarter.

- B. Evening and off-campus classes—through the second meeting of the class.
- C. Summer Sessions—through the fifth class day of the session.

Students may withdraw from a class only within the following limits:

- A. Fall-Winter-Spring—by the end of the sixth week (30th class day).
- B. Summer Sessions—by the end of the third week (15th class day).

No entry will be made in a student's record if a class is dropped within the first ten class days of a quarter (or equivalent for evening and summer), unless such entry is required by the MSU Business Office to satisfy state and federal audit procedures.

A class dropped after the first ten days (or equivalent) will appear on the student's record as a withdrawal ("W"). Tuition from a withdrawn course may not be applied to subsequent course additions.

Each change of program requires the following procedures:

1. Complete a change of program form available from the Records Office.
2. Secure the instructor's signature for each class dropped or added.
3. Secure the faculty advisor's signature.
4. Present the form for checking at the Records Office.
5. Submit the form to the Business Office for payment of a change of program fee unless the change results in a reduction of total credits.

The date of a program change will be the day when the final step of the process above is completed.

To withdraw from an evening class, either on-campus or off-campus, students must notify both the instructor and the Registrar in writing by the withdrawal deadline of the quarter.

If a change of program results in an increase in the number of credits, the corresponding additional tuition must be paid before the change will be processed.

If a change results in a decrease of credits, no refund will be made unless the change is made for the convenience of the university.

Tuition and fees will not be reduced or refunded for dropped courses except during the first three days of the fall, winter, or spring quarter, before the second meeting of an on-campus evening course, or the first day of a summer course.

Withdrawal from Enrollment

To withdraw from all enrolled courses, students must complete the Student Withdrawal form available from the Counseling Center.

Students who withdraw without following this procedure will receive a grade of "F" in each course.

"W" grades cannot be granted if the complete withdrawal takes place later than the normal withdrawal deadline of the quarter.

Any refund of tuition or fees will be according to the schedule given under "Refund of Payments."

Confidential Records

Confidential information about students at Moorhead State University is maintained in several offices. Such records are on file only when students have utilized the services of such offices and are solely for the purposes of maintaining essential records, providing required reports to governmental agencies, and furnishing services to students.

Students are entitled to examine their own personal records with the exception of medical records, confidential recommendations submitted by other persons prior to January 1, 1975, and parental financial information submitted prior to January 1, 1974, when disclosure has been specifically restricted by parents.

Records will not be released to other persons without permission from students except to those officials or agencies with specific legal authorization. Students may withhold either or both of the following categories of information from public use by submitting requests to the Records Office no later than the tenth class day of each quarter:

- (A) name, address, telephone;
- (B) dates attended, class level, majors or minors, degrees, academic honors, high school. Because the entire category will be withheld in all circumstances, students are cautioned to consider possible inconveniences.

Requests to examine records and to correct inaccurate or inappropriate entries should be made to officers of the university who are responsible for records in the offices listed below:

Admissions—Director of Admissions
 Business—Business Manager Counseling—Director of Counseling Services
 Financial Aid—Director of Financial Aid
 Graduate Studies—Dean of Graduate Studies
 Health Services—Supervisor of Health Services
 Housing—Director of Housing

International Students—International Student Advisor
Placement—Director of Placement
Records—Registrar
Veterans Affairs—Veterans Service Officer

Appeals of decisions by officers listed above may be made to the respective vice presidents to whom those officers are responsible. A vice president may assign such appeals to designated committees.

The decision of a vice president may be appealed to the university president in compliance with state and federal regulations applicable to contested records including the opportunity for a full and impartial hearing.

Reasonable charges may be made for reproduction of records. Copies of placement records are available as follows: active file—first ten free, \$.50 thereafter; inactive file—\$3.00 each. Transcripts of academic records are free, but special justification is required for more than two transcripts at any one time. All records transmitted through FAX (facsimile) technology are considered unofficial records and will be stamped "Issued to Student." There will be a charge of \$5.00 for each transcript issued via FAX.

Appeal of Academic Policies

Students seeking to waive a graduation requirement or similar academic policy should inquire at the Office of Academic Affairs to determine if an appeal is necessary.

Students complete an appeal form, including a faculty advisor's statement and signature, and submit the form to the Office of Academic Affairs.

The Committee on Academic Appeals reviews the appeal and submits a recommendation to the vice president for Academic Affairs who makes the final decision to approve or deny the appeal.

Students who are not satisfied with the decision of the Vice President may submit a written appeal to the president of the university.

DEPARTMENTS, CURRICULA & COURSES

The following pages list all courses offered by the academic departments of Moorhead State University as of September 1991, arranged in alphabetic order by subjects. Credit values are expressed in quarter hours and appear in parentheses following course titles. One quarter credit represents one 50-minute class meeting each week for an eleven-week term along with class preparation, although this pattern may vary for laboratory, activity and individualized courses.

The first digit of each course number suggests the year of study in which the course should normally be taken: 100-freshman; 200-sophomore; etc. If "g" follows a 300- or 400-number, the course may be taken by both undergraduate and graduate students with differentiated assignments. A course at the 500-level is normally open to graduate students only. Numbers below 100 designate a few specified remedial or technical courses which are not applicable to college degree requirements.

To assist in program planning, this catalog lists, wherever possible, the quarter a course is offered (F for fall quarter, W for winter quarter and S for spring quarter). A capital letter indicates when the course is usually offered, a small letter when limited sections of the course are offered. "On Demand" means a department will offer the course when the number of students wishing to enroll warrants an offering. In all cases, it is wise to consult the department for particulars of course offerings.

Certain numbers are available in most subjects for specialized use as follows: 469-Student Internship; 199-299-399-499g-Special Topical Workshop; 489g-Topical Continuing Education Course. These courses are not usually listed in this publication under the various subjects because their descriptions vary according to the topics studied.

Accounting Department Bridges 160, (218) 236-2266

Chair: Carol Dobitz

Faculty: Mary Bader, Marilyn Bakke, Lee Dexter, Sheri Erickson, Wilbert Fischer, Margaret Jorgenson, Judy McLean, Wesley Monson, Dorian Olson, Cynthia Phillips, Donald Samelson, George Sanderson, Marlane Sanderson, Leonard Sliwoski, William Violet, Donald Wirries

ACCOUNTING DEPARTMENT MISSION:

The Department of Accounting has the following mission: To offer high quality accounting education, encourage scholarly activities, and provide service to public and private organizations.

Business Division Upper-Level Course

Admission Policy:

All students with fewer than 90 credits who intend to major in a business field (Accounting, Business Administration, Business Education, Finance, Hotel-Motel-Restaurant Management, International Business, Management and Marketing) will be designated as pre-business.

Pre-business majors must complete the following courses before application to a specific business program:

Accounting* 229, 230, 200

Economics* 202, 204, 206

English 101, 102, 103

Mathematics 273, 274, 275

* All accounting and economics courses listed above must be completed with a grade of C or higher.

Additionally, all students must have a minimum 2.5 GPA for admission to a specific business program. Effective dates of this Admission Policy are as follows:

June 1, 1991 Incoming Freshmen

June 1, 1992 Incoming Transfers

All Pre-Business students who have completed and/or enrolled for at least 90 credits, have completed and/or enrolled in the required courses, and have the required GPA are eligible to apply for admission to a business field (Accounting, Business Administration, Business Education, Finance, Hotel-Motel-Restaurant Management, International Business, Management or Marketing). Applications will be accepted after the second and before the sixth week of the quarter in which the student has enrolled for the 78th credit. Application forms are available in Bridges 260 or 160.

All Business majors who fail to meet any of the above requirements in all subsequent quarters will be subject to a one quarter departmental probationary period. If requirements are not met at the end of the probationary period, the student will not be allowed to register for upper division courses.

Students who wish to minor in business programs (either the minor for business majors or the minor for non-business majors) will be required to complete an application prior to declaration of the minor. Students who wish to declare a minor must have accumulated 90 credits, completed appropriate prerequisites and have a 2.5 GPA prior to admission to a business minor program.

An interdepartmental committee will meet regularly to consider appeals to any requirements or procedures.

ACCOUNTING CURRICULA

Major in Accounting

Each Accounting major requires completion of:

(1) the common business core,

(2) 40 credits of upper-level accounting,

(3) related field requirements, and

(4) at least 80 non-business credits.

Accounting majors must have grades of "C" better in all courses used to satisfy the business core and the 40-credit major. This includes transfer as well as resident credits. Substitutions and waivers of courses required for the B. S. degree in Accounting must be approved in writing by the Accounting Department Chair.

Common Business Core (42 credits)

Acct 200 Introduction to the Legal System (2)

Acct 229-230 Principles of Accounting I-II (8)

Acct 300 Legal Environment of Business (4)

Acct 350 Cost Accounting I (4)

Acct 370 Accounting Systems (4)

FinC 340 Corporate Finance (4)

Mgmt 360 Principles of Management (4)

Mgmt 450 Production/Operations Management (4)

Mktg 310 Principles of Marketing (4)

Mgmt 490 Business Policy (4)

Required Upper-Level Accounting Courses (28 credits)

Acct 305 Business Law I (4)

Acct 330-331-332 Intermediate Accounting I-II-III (12)

Acct 351 Cost Accounting II (4)

Acct 441 Individual Income Taxes (4)

Acct 460 Auditing I (4)

Elective Accounting Courses (12 credits)

Acct 306* Business Law II (4)

Acct 420 Introduction to International Accounting (4)

Acct 425 Advanced Accounting (4)

Acct 430 Consolidations (4)

Acct 435 Fund Accounting (4)

Acct 443 Corporate/Partnership Tax

Acct 446 Estate/Gift/Trust Taxation (4)

Acct 461 Auditing II (4)

Acct 465 Internal Audit (4)

Acct 469* Internship (4-8)

Acct 480 Theory (4)

Acct 498 Problems (1-4)

*A total of 4 credits from Acct 306 and Acct 469 may be applied to the 12-credit accounting elective requirement.

Requirements in Related Fields (35-36 credits)

Econ 202-204-206 Principles of Economics I-II-III (12)

Engl 286 Practical Writing (4) or

Engl 287 Technical Report Writing (4) or

BEd 207 Business Communications (4)

Math 273 Linear Algebra/Applied Calculus I (4)

Math 274-275 Introduction to Statistics I-II (8)

ComS 145 Data Processing (4)

Spch 100 Beginning Speech Communications (4) or

Spch 210 Effective Business Speaking (3)

Minors in Accounting For Business Majors: (24 credits)
Acct 305 Business Law I (4)
Acct 330-331-332 Intermediate Accounting I-II-III (12)
Acct electives selected from 420, 425, 435, 441, 443, 460, 465 (8)

For Non-business Majors: (34 credits)
Acct 200 Introduction to the Legal System (2)
Acct 229-230 Principles of Accounting I-II (8)
Acct 305 Business Law I (4)
Acct 231 Managerial Accounting (4)
Acct 330-331-332 Intermediate Accounting I-II-III (12)
Acct electives selected from 420, 425, 435, 441, 460 (4)

Note: The accounting minor for business majors requires completion of the business core. The accounting minor for nonbusiness does not require completion of the business core.

ACCOUNTING COURSES

Acct 200 Introduction to the Legal System (2) (FWs)

An introduction to the operation of the U.S. legal system including an overview of its sources, procedures and major subject areas, including constitutional, criminal, administrative, tort, contract and property law, as well as alternative dispute resolution mechanisms.

Acct 229-230 Principles of Accounting I-II: Financial (4-4) (FWs-fWS)

Accounting fundamentals, the recording process, preparation of financial statements. Must be taken in sequence.

Acct 231 Managerial Accounting (4) (fWS)

Fundamentals of managerial accounting and decision-making. Prerequisite: Acct 230.

Acct 300 Legal Environment of Business (4) (fWS)

Analysis of various forces that dictate legal responsibilities of business organizations: protections for consumers, investors, and employees; governmental regulations relating to anti-trust, employers, and unions; duties owed society and the environment. Prerequisite: 200 or consent of instructor.

Acct 305 Business Law I (4) (fWS)

A traditional study of contract law concepts, and the study of legal principles relating to business organizations including agency relationships, partnerships and corporations. Prerequisite: Acct 200.

Acct 306 Business Law II (4) (fWS)

A traditional study of sales contracts, commercial paper, debtor-creditor relationships, real and personal property, insurance, trusts and estates and accountants' legal liability. Prerequisite: Acct 200. Acct 305 recommended.

Acct 330-331-332 Intermediate Accounting I-II-III (4-4-4) (Fw-Ws-Sf)

330: Review of the accounting process, analysis, valuation, and financial statement presentation of the working capital accounts. Prerequisite: Acct 230; CIS 145 recommended.

331: Analysis, valuation, and financial statement presentation of the noncurrent accounts, including the use of present and future values. Analysis, valuation and statement presentation of corporate capital.

332: Inflation accounting, correction of errors, statement analysis, statement of cash flows, leases, pensions, liability for income taxes. Must be taken in sequence.

Acct 350-351 Cost Accounting I-II (4-4) (Fw-Ws)

350: Introduction to cost accounting: job order and process costing, cost-volume-profit analysis, budgeting, standard costs, variance analysis, special decisions. Use of computerized spreadsheet is a required part of sequence. Prerequisite: Acct 230, CIS 145 and Math 275; Mgmt 360 recommended concurrently.

351: Cost concepts and techniques for inventory management, control of decentralized operations and cost allocations, capital budgeting, quantitative methods. Must be taken in sequence.

Acct 370 Accounting Systems (4) (fWS)

Developing, organizing, and using accounting data; analyzing and improving accounting systems; emphasis on computer applications and controls in EDP systems. Prerequisite: Acct 330 and 350 or consent of instructor.

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 and Mgmt 360 or consent of instructor.

Acct 425(g) Advanced Accounting (4) (FS)

Advanced topics in financial accounting, involving the consolidation process, not-for-profit accounting, partnerships, reorganization and liquidation, and other topics as appropriate. Credit not available for both Acct 425(g) and Acct 430(g). Prerequisite: Acct 332 or consent of instructor.

Acct 430(g) Consolidations (4) (F)

Accounting for mergers, consolidations, and intercorporate investments. Emphasis on consolidated financial statements. Use of computerized spreadsheet is a required part of course. Prerequisite: Acct 332 or consent of instructor. Credit not available for both Acct 430(g) and Acct 425 (g).

Acct 435(g) Fund Accounting (4) (wS)

Fund accounting systems used by non-profit entities. Municipalities, colleges and universities, hospitals, voluntary health and welfare agencies and other non-profits. Prerequisite: Acct 332 or consent of instructor.

Acct 441(g) Individual Income Taxes (4) (fWs)

Fundamentals of federal tax return preparation for individuals. Prerequisite: Acct 230 or consent of instructor.

Acct 443(g) Taxation of Corporations and Partnerships (4) (wS)

Tax planning and return preparation for corporations, S corporations, and partnerships. Prerequisite: Acct 441 or consent of instructor.

Acct 446(g) Estate, Gift and Trust Taxation (4) (W)

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of return preparation; basic estate planning. Prerequisite: Acct 441 or consent of instructor.

Acct 460(g) -461(g) Auditing I-II (4-4) (Fw-Ws)

460: Orientation to auditing. Purpose, ethics, legal liability, internal control, planning, evidence and reporting. Prerequisite: Acct 332 and Acct 370 or consent of instructor. 461: Statistical sampling, audit objectives and procedures, reporting, professional standards, workpaper analysis, current topics, case studies and oral presentations. 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 469 Student Internship (4-6) (fWs)**Acct 480(g) Accounting Theory (4) (S)**

Intensive study of current authoritative pronouncements with emphasis on prescribed procedures and suggested alternatives, conceptual framework, and overview of standard setting and reporting process. Prerequisite: Acct 332 and senior standing or consent of instructor.

Acct 498(g) Problems in Accounting (1-4) (Fws)

Special problems not in the regular curriculum. May be taken more than once since content will vary. Prerequisite: Consent of instructor.

Agriculture*Cooperative Degree Program*

Although no courses in this field are offered at MSU, a cooperative agreement with North Dakota State University permits a student to take three years of courses as an MSU student, concurrently pursuing courses in this specialty at NDSU. The student need only transfer for the fourth year to North Dakota State University, may pay in-state tuition under a reciprocity agreement and will receive the degree from that institution.

American Studies Program**MacLean 326, (218) 236-2196**

See Humanities and Multicultural Studies Department.

Coordinator: D.C. Cole

Faculty: Joyce Torgerson

The American Studies degree is designed for those who plan to engage in professions such as public relations, journalism, government service, teaching, social service, editing and publishing, library and museum work, law and the ministry. The major is also appropriate as a liberal arts major and as a second major in any number of fields (Business, Mass Communications, Social Services) where a broad knowledge of American society is desirable.

AMERICAN STUDIES CURRICULA

Major in American Studies B.A. Degree (69 credits)

Core Requirements in American Studies (12 credits)

AmSt 217 Introduction to the American Culture (4)

AmSt 317 The Midwest (4)

AmSt 417 Seminar in American Culture (4)

or AmSt 419 Seminar: Success and Failure in American Society (4)

Two courses in each of the following areas: (24-32)

Social Sciences

Fine Arts or Mass Communications

American Literature

American History

Requirements in Related Fields (26-34)

In addition to the major course requirements, the student will choose electives from a wide selection of courses in various departments to satisfy professional goals and individual interests. Those who choose American Studies as a second major and who plan their program with care may fulfill some of the requirements in related fields with courses which also fulfill requirements in liberal arts and the first major.

AMERICAN STUDIES COURSES

AmSt 201 American Cultural Origins (4) (F)

An introduction to the interdisciplinary study of multicultural America. Course materials are drawn from disciplines such as humanities, social sciences, literature, philosophy, and the arts. Recommended only for sophomores and juniors.

AmSt 202 Multicultural America Comes of Age (4) (W)

An interdisciplinary study of the development of multicultural America. Emphasis is on thematic study of maturing multicultural America. Materials are drawn from humanities, social sciences, literature, and the arts. Recommended to follow AmSt 201.

AmSt 203 Modern Multicultural America (4) (S)

An interdisciplinary study of contemporary multicultural America. Course is analysis and issue oriented. Materials are drawn from disciplines of humanities, social science, literature, and the arts. Recommended to follow AmSt 202.

AmSt 217 Introduction to the American Culture (4) (Fws)

An introduction to the interdisciplinary study of the American culture. Course materials are drawn from disciplines such as history, social sciences, literature, philosophy and the arts.

AmSt 221-222-223 20th Century I-II-III (4,4,4) (FWS)

221: A study of representative works of literature, art, architecture and music as they reflect central themes of the 20th century through World War I. 222: From 1920 through World War II. 223: From 1945 to the present.

AmSt 317(g) The Midwest (4) (W)

An interdisciplinary approach to the study of the Midwest to examine regional values, beliefs and patterns of behavior. Course materials are selected from history, geography, literature, social sciences and the arts.

AmSt 340 Topics in American Culture (4)

An interdisciplinary approach to a selected issue or era in American life. Topics vary. Prerequisite: AmSt 217 or consent of instructor.

AmSt 417(g) Seminar in American Culture (4)

Selected problems in American culture, employing the objectives and approach of interdisciplinary studies. Emphasis upon student research and writing. Prerequisite: AmSt 217 and 317, or consent of instructor.

AmSt 419(g) Seminar: Success and Failure in American Society (4) (S)

An examination of the dominant beliefs about success and failure in American society: their origin, impact, and current influence. Materials are drawn from literature, history, journalism, interdisciplinary studies, film. Prerequisite: AmSt 217 and 317, or consent of instructor.

AmSt 420 Directed Reading in American Studies (2-4)

Tutorial in American Studies. Prerequisite: Senior standing, AmSt 217 and 317, consent of instructor.

AmSt 469 Student Internship (4-16)

Anthropology

See Sociology for Curricula

ANTHROPOLOGY COURSES

Anth 110 Introduction to Culture/Symbols (4) (Fws)

Introduction to the concept of culture and to the study of language, including historical, developmental, social, structural and cultural.

Anth 111 Evolution and Prehistory (4) (Fws)

The study of human diversity through biological and cultural remains. Topics covered include: evolutionary theory, non-human primates and their behavior, fossil discoveries, the development of technology, the human hunting and gathering adaptation, and the development of food production and complex societies.

Anth 200 Health and Culture (4)

Introduction to health-related disciplines. Focuses on interrelationships among behavior, beliefs and health. See Soc 200.

Anth 202 Health Aspects of Aging (4)

Models and theories of aging; environmental factors that effect physiological changes with age; life-style and aging processes. See Health 202.

Anth 210 Minnesota Prehistoric People (4) (every other F)

Culture/history of ancient peoples in the northern Midwest since earliest occupation. Archaeological excavations and their implications for understanding regional prehistory. Origins of historically known ethnic groups.

Anth 215 Indians of South America (4)

Ethnographic survey of pre-Hispanic native South American cultures. Prerequisite: Anth 110 or consent of instructor.

Anth 216 Prehistoric Cultures (4) (W)

An examination of Paleolithic archaeology, reviewing the major cultural achievements of the Old Stone Age, and outlining the basic techniques of archaeological science.

Anth 217 Social Evolution (4) (S)

Examines the origins of agriculture and civilization, with special attention to a comparison of long-term cultural developments in the Old World and New World.

Anth 219 Plains Indians Cultures (4)

This course focuses on past and present cultures of Plains Indians. Individual tribal traditions are compared and contrasted. The interdependence of techno-environment, socio-political organization and ideology is stressed, with emphasis on culture change. Present day adaptations to reservation and urban life are examined. See MCS 219.

Anth 220 Indians of Middle America (4)

Meso-America as a culture area focusing attention on traditional Indian societies. Prerequisite: Anth 110 or consent of instructor.

Anth 225 Indians of North America (4)

A survey of the major culture areas of Native North America, highlighting specific cultures from each area. Focus is on social organization and change. Outlines the developing relationship between Indians and Europeans from 1600-1900. Prerequisite: Anth 110 or consent of instructor.

Anth 230 Cultures of Africa (4) (W)

A survey of diversity in Africa from an anthropological perspective: physical geography, human populations of the past and present, political, religious and economic systems, the role of colonialism. Prerequisite: Anth 110 or consent of instructor.

Anth 235 Topics in Anthropology (4)

Topics from the subdisciplines of anthropology. Prerequisite: Anth 110 or consent of instructor.

Anth 300 Archaeology (4) (S)

Survey of the theoretical foundations and methods of discovery and analysis used in archaeology. Course will focus on the interpretation of archaeological sites through the use of dating techniques, stratigraphic principles, site formation processes, soils, artifact analysis and regional ecology. Prerequisite: Anth 111 or consent of instructor.

**Anth 302 Cultural Aspects of Aging (4)
(every other W)**

A survey of various cultures' definitions of aging and the elderly, their treatment, status, and responsibilities. Examines age as a variable of classification and assignment within a society. Prerequisite: Anth 110, recommend Soc/Anth 200 or consent of instructor.

Anth 305 Primate Behavior (4) (W)

A survey of the primates and primate social behavior, with a sociobiological theoretical basis. Prerequisite: Anth 111 or consent of instructor.

Anth 306 Cross-Cultural Illness and Care (4) (S)

Medical anthropology. A survey of the distributions of illness throughout the world with emphasis on the definitions, treatments, and practitioners as well as the cultural settings producing them. Prerequisite: Anth 110 or Soc/Anth 200 or consent of instructor.

Anth 310 Human Evolution (4) (Fs)

Evolutionary theory and its applications to the hominid fossil record. Prerequisite: Anth 111 or consent of instructor.

Anth 315 North American Archaeology (4)

An overview of the prehistory of North America from the end of the Ice Age. Special consideration is given to episodes of prehistoric times which reflect on some important archaeological problem. Illustrates how archaeologists deal with evidence that may be interpreted in various ways. Prerequisite: Anth 110, 111 or consent of instructor.

Anth 323 Community (3-4)

Investigation of community formations in "primitive" and "modern-industrial" contexts. Emphasizes effects of penetration of traditional communities by industrial institutions. Prerequisite: Soc 110 or Anth 110. See Soc 323.

Anth 325 Technology and Materials Culture (4)

Development of present community health services. Distribution of disease, emphasizing interrelationships among culture, social organization, environment and populations. Prerequisite: Anth 110, 111 or consent of instructor.

Anth 335 Humans, Culture and Environment (4)

Influence of ecology and on cultural systems. Prerequisite: Anth 110, 111 or consent of instructor.

Anth 340 Social and Cultural Change (4)

Major theories of social and cultural change, including unilineal and multilinear evolution and acculturation. Prerequisite: Anth 110 or consent of instructor.

Anth 350 Psychological Anthropology (4)

The relationship between culture and mental health; specific illnesses and causes; problems in identifying a cross-cultural typology. Prerequisite: Anth 110, 111 or consent of instructor.

Anth 360 Economic Anthropology (4) (W)

Focus on economies of village and peasant populations, emphasizing the embeddedness of economic structures within a larger cultural framework. The relevance of reciprocity, prestige and domestic production in modern market economies is stressed. Prerequisite: Anth 110, 11 or consent of instructor.

Anth 370 Anthropological Linguistics (4) (every other F)

Structural linguistics focuses on phonetics to transformational grammar. Designed for both field linguistics for majors and classroom application in ESL. Prerequisite: Anth 110 or consent of instructor.

Anth 375 Language and Culture (4) (every other F)

The relationship between language and culture with emphasis on historical linguistics, sociolinguistics, psycholinguistics, and ethnolinguistics. Prerequisite: Anth 110 or consent of instructor.

Anth 400 Development of Anthropological Theory (4) (every other S)

A history of ethnological theory, with special reference to the ideas of progress, cultural evolutionism, relativism, diffusionism, functionalism, and structuralism. Heavy emphasis on Boas, Malinowski, Radcliffe-Brown and Levi-Strauss. Prerequisite: Upper-class status or consent of instructor.

Anth 401 Senior Seminar (4)

The course will focus on an issue of general anthropological significance with the purpose of providing students with an understanding of how the four subdisciplines of anthropology approach a problem. Students will be required to read upper-level texts and articles. Prerequisite: Senior level standing or consent of instructor for advance juniors.

Anth 402 Research in Anthropology I (3)

Preparation for research in anthropology. This course will focus on the mechanics of conducting research, including development of a problem, composing a thesis statement, appropriate library sources, how to assemble background information, citation formats, preparing a draft manuscript and final editing. Students will be responsible for designing their own research project in conjunction with an anthropology faculty member. Individual contracts will be made concerning expected progress on the independent research. Prerequisite: Anth 401.

Anth 403 Research in Anthropology II (2)

Students will revise and complete the research initiated in Anth 402 and will present their senior research seminar results at a forum consisting of anthropology faculty and students. Prerequisite: Anth 401 and 402.

Anth 421-422-423 Senior Project in Anthropology I-II-III (3 each)

Student-initiated research project under the close supervision of members of the faculty. Prerequisite: Senior status with an Anthropology major.

Anth 445 (g) Seminar in Anthropology (4) (S)

Various topics in anthropology. Prerequisite: Junior or senior standing or consent of instructor.

Anth 450 Field Work in Archaeology (1-8)

An applied course in archaeology involving excavations at archaeological sites during the summer months. Emphasis on lab and field techniques including map reading, photography, excavation techniques, artifact processing and analysis. Prerequisite: Junior or senior standing or consent of instructor.

Anth 461(g) Readings in Anthropology (1-8)

Selected readings in anthropology under the close supervision and direction of the faculty. Prerequisite: Upper-division status and permission of the instructor.

Anth 469 Internship in Anthropology (3-16)

Junior or senior standing with major in Anthropology.

Architecture*Cooperative Degree Program*

Although no courses in this field are offered at MSU, a cooperative agreement with North Dakota State University permits a student to take three years of courses as an MSU student, concurrently pursuing courses in this specialty at NDSU. The student need only transfer for the fourth year to North Dakota State University, may pay in-state tuition under a reciprocity agreement and will receive the degree from that institution.

Art Department**Center for the Arts 161, (218) 236-2151/2152**

Chair: Timothy Ray

Faculty: Virginia Barsch, Deborah Broad, John Holland, Lyle Laske, Donald McRaven, Phillip Mousseau, Carl Oltvedt, Allen Sheets, P. Richard Szeitz, Robert K. Tom

AREAS OF CONCENTRATION**Art History**

The area of concentration in Art History is offered to present an additional option for visual art oriented individuals whose principal interest is not studio production but museum work, teaching or other related fields intimately related to the visual arts. In the core curriculum, in addition to basic studio classes, individual courses cover Ancient-Classical, Medieval, Renaissance,

Baroque, 19th and 20th Century. The alternately scheduled offerings for electives include: Oriental Art, Primitive Art, Scandinavian Art, History of Prints and Modern Architecture. Additional electives are also available through the Tri-College consortium. At least one course must be taken in one of the other institutions of the Tri-College University. A public lecture presentation of the senior research paper is required for graduation.

Ceramics

Options include all handbuilding techniques, wheel-thrown stoneware, porcelain, special clays and glazes such as Raku and low-fire bright glazes, glaze chemistry, and kiln history, design and operation as well as arranged projects of the student's own choosing. Internships available at senior level.

Graphic Design

Traditional and computer aided design processes utilized for in-depth studio investigations into the various formal, conceptual, and technical applications toward effective graphic communications. Illustration, package design, symbol, typographic and diagrammatic design, exhibition systems, design for film, television, publications and posters are among those areas covered. Internships are available within the field on a national scale.

Painting

Individual studio work in painting may consist of work in any of the various media and techniques, including but not limited to traditional oil glaze techniques, wet into wet, palette knife or brush techniques, acrylic, brush, impasto, glaze, stain and airbrush techniques. Encaustic, egg tempera, gouache, watercolor, collage, assemblage, as well as more unusual media may be investigated in a variety of ways.

Areas of specialization within painting, independent of media and techniques, include but are not limited to any combination of the following: traditional representational, surrealist, realist, expressionist, abstract expressionist, color field, pop, constructivist, perceptual abstraction, funk, psychedelic, symbolic, kinetic, or post-object art forms. Internships available.

Photography

A traditional and contemporary approach to photography which includes developing, advanced composition, lighting techniques, retouching and negative manipulation, toning, hand coloring and slide processing. Portraiture, night photography, landscape topography and use of large camera format are taught. Students are encouraged to develop individual styles based on self-awareness.

Pictorial Illustration

Utilizes a broad range of disciplines in the Department of Art and Industrial Studies to offer students a program integrating the concepts of narrative and visual form. The

program's sequence of course requirements is based on nationally accredited standards for the B.F.A. degree. Topics covered: editorial, book, children's books, advertising and scientific illustration.

Printmaking

The student may choose one or a combination of the following printmaking media: relief printing, intaglio printing, lithography, serigraphy and photo silk screen. Internships available.

Sculpture

Studio in traditional and contemporary materials, techniques and philosophies. Modeling media include water clay, plasticene and wax which are cast in rigid or flexible negative molds. Positive casting media are hydrostone, concrete and thermosetting plastics. Both standard and ceramic shell investments are used to cast bronze. Carving media are wood and stone. Arc and oxy-acetylene welding are taught as well. Internships are available.

Art Education

Preparation for teaching art in the public schools*, including required methods courses on the application of aesthetic principles and visual art elements to the progressive development of various age groups. The student may undertake additional field experiments and research in the schools.

* Both in the B.S. and BFA programs, K-12 certification received.

LEVELS OF STUDY

Foundation Studies

First year students who intend to major in art are introduced to the basic theories, skills and working concepts of art through a series of drawing, design and art theory classes. These are the Foundation Drawing I, II and Life Drawing; the Basic Design, Color and Three-dimensional Design courses, plus the Art Theory I, II and III.

150 series. Introduction to all major areas of concentration with emphasis on media and concept. May be taken by beginning students.

200 series. Investigation of specialized areas of interest chosen and explored within the introductory series with emphasis on media and concept. May be taken after corresponding introductory course and completion of 20 art credits.

300 series. Refinement of previously acquired introductory knowledge and experimentation in the 200 level, now with increased conceptual emphasis. May be taken after corresponding introductory course and 40 art credits.

400 series. Further development of conceptual and formal qualities of art work in selected media. Emphasis on conclusive visual unity and presentation of individual projects. Internships and field experiences. May be taken after 60 art credits.

450 series. In-depth problem analysis and conceptual refinement of projects. Emphasis on professional presentation or exhibitions in preparation for further career development either in formal setting or in the field. May be taken after 80 art credits.

Statement on credits

Work toward credits can take place in formal classes, critiques, technical workshops or independent study activity. The distribution of time spent between in-class and out-of-class options is determined by the nature of the particular course. In all art courses, however, the ratio of three clock hours of work per week, per credit should be met.

Annual Evaluation

In order to help students evaluate their progress and their prospects for success as artists or art educators, the Art Department requires all art majors to submit representative pieces annually for evaluation by a committee. This is a prerequisite for the next level of studio art courses.

Requirement for Student Senior Exhibition

During the senior year, each art major must present an exhibition containing representative pieces of work done in art courses throughout the advanced years of study. This exhibit is to be independently designed and constructed by the student and is to be accepted as a partial fulfillment of the condition for graduation by a select committee constituted of members of the faculty of the Art Department. For descriptions of criteria and requirements for specific areas of concentration, consult with major advisor.

ART CURRICULA

The Department of Art offers the following degree programs:

B.A. The Bachelor of Arts Degree with the major in fine art offers the following areas of study: Painting, Sculpture, Printmaking, Photography, Ceramics, Drawing, Art History or Graphic Design (4 years, 80 art credits, total 192 credits, senior exhibition required or lecture-presentation required.)

B.S. The Bachelor of Science Degree with the major in Art Education offers areas of concentration: Painting, Sculpture, Printmaking, Photography, Ceramics, Drawing, (4 years, 80 art credits, total 192 credits, student teaching and senior exhibition required).

B.F.A. Beyond the B.A. and B.S. Degree, the Bachelor of Fine Arts (B.F.A.) Degree is offered as a "Professional Program." This degree is considered nationally as "entry-level credentials" desired for employment in the applied fields or for graduate study in the fine arts toward a terminal degree. Students, seeking admission to the B.F.A. program, must meet the following requirements: 2.75 overall G.P.A. and 3.0 in studio. Presentation of sample works from one year of previous studio work. Public showing of the final year's work is required for graduation. Please note that unlike the other studio areas, concentration in Pictorial Illustration is only available in a B.F.A.

Of the 234 total B.F.A. degree credits, 133-146 art credits are required for fine art, design and crafts; and 122 art credits for the B.F.A. in Art Education.

Major in Art Education B.S. Degree (80 credits)

Areas of Study

Foundation Studies in Art (18)

Introductory Studio Courses (14-16)

Both two- and three-dimensional courses must be included

Art Survey and History (20)

Art Education Method Courses (7)

Seminars in Art (6)

Art Concentration (12)

Art Electives or Internships (3)

Major in Art B.A. Degree (80 credits)

Areas of Study

Foundation Studies in Art (18)

Introductory Studio Courses (9-12)

Both two- and three-dimensional courses must be included

Art Survey and History (20)

Seminars in Art (6)

Art Concentration and Internship (18)

Art Electives (6-9)

B.F.A. Degree in Fine Art, Design & Crafts (Five Year-234 credits)

Foundations in Art (21)

Introductory Courses (12)

Both two- and three-dimensional courses must be included

Studio Concentration and Internship (64-77)

Seminars in Art (6) Art Electives (9)

Art History (24)

Total Art Credits (133-146)

Liberal Arts (64)

General Electives (18)

Total B.F.A. Credit Requirements (234-237)

B.F.A. Degree in Art Education, K-12

(Five Year-234 credits)

Foundations in Art (21)

Introductory Courses (18-24)

Both two- and three-dimensional courses must be included

Studio Concentration and Internship (50)

Methods and Art Education (7)

Seminars in Art (6)

Art History (24)

Total Art Credits (122)

Student Teaching, K-12 & Alternative Ed. (20)

Professional Education (15)

Liberal Arts (64)

Total B.F.A Credit Requirements 234-240

Minor in Art B.A. Degree (40 credits)

Art 100 Art Elements (3)

Art 101 Basic Drawing I (4)

Introductory Studio Courses (12)

Choose two courses from the following (6-8)

Art 233-5 Survey of Art 233 Survey of Art I (4)

234 Survey of Art II (4)

235 Survey of Art III (4)

or Art 270-2 Art Appreciation (6-8)

270 Content and Form (3)

Art Concentration (8)

Art Electives (5 or 7)

Total Art Credits (40)

Minor in Art Education B.S. Degree (40 credits)

Art 100 Art Elements (3)

Art 101 Drawing I (4)

Art 150 Intro. to Ceramics (3)

Art 158 Intro. to Printmaking (4)

Art 162 Intro. to Watercolor (4)

Art 233-5 Survey of Art 233 Survey of Art I (4)

234 Survey of Art II (4)

235 Survey of Art III (4)

Art 270 Art Appreciation (4)

270 Content and Form (3)

Art 442 Studies in Elementary School Art (3) Art

Electives (11 or 13)

ART COURSES

Art 100 Elements of Art (3) (Fws)

Basic principles of creative design. Experimental use of various media in drawing and painting. For non-majors.

Art 101 Basic Drawing I (4) (Fws)

Introduction to visual elements through various drawing media, emphasizing accurate observation of still-life, nature and the figure. For non-majors.

Art 102 Basic Drawing II (3-4) (S)

Advanced visual inquiry using representational and imaginative studies. Composition emphasized. Wet media and figure drawing included. Prerequisite: Art 101.

Art 103 Art Education in Contemporary Society (1) (W)

Understand historical and contemporary theories in art education; develop an understanding of appropriate behavior and art product expectancies for identified stages of student development. Prerequisite: Art Ed major (BFA/BS) or consent of instructor.

Art 114 Design (3)

Textures, shapes, lines, space and colors in their visual psychological relationships in compositions. For non-majors.

Art 120, 121, 122 Foundations Theory (3) (Fws)

Slide lecture and film sessions introducing formal, aesthetic, media and vocational aspects of 20th Century art and design. Art 123-125 and 124-126 must be taken concurrently.

Art 123 Foundations Drawing I (3) (F)

Introduction to visual elements through studies in representation and imagination. Variety of media. Art 120 and 125 must be taken concurrently.

Art 124 Foundations Drawing II (3) (W)

Advanced visual inquiry using representational and imaginative studies. Composition emphasized. Art 121 and either 126 or 127 must be taken concurrently. Prerequisite: Art 123.

Art 125 Foundations Design, Basic (3) (F)

Elements and principles of visual language, color, form/shape, line, space and texture. Art 120 and 123 must be taken concurrently.

Art 126 Foundations Design, Color (3) (WS)

Introduction to constructive, perceptual, symbolic and expressive aspects of color within a variety of relationships. Art 124 and 121 or 122 must be taken concurrently. Prerequisite: Art 125.

Art 127 Foundations Design, Three Dimensional (3) (WS)

Introduction to visual organization, volume, plane, linear volume, organic-biomorphic, texture, light art, translucency, kinetic and reflection. Art 124 and 121 or 122 must be taken concurrently. Prerequisite: Art 125.

Art 150 Introduction to Ceramics (3) (FS)

Historical, technical and aesthetic aspects of the materials and methods of ceramics, functional and nonfunctional. Prerequisite: Art Foundations or consent of instructor.

Art 152 Introduction to Pictorial Illustration (4) (Fws)

Study of basic concepts of pictorial illustration. Traditional and contemporary trends in image making also adaptable for publishing in narrative. Descriptive and analogous visualization of ideas will be explored. Further development of drawing skills attained in foundations. Prerequisite: Art Foundations or consent of instructor.

Art 153 Introduction to Photography (3)

See Basic Photography (Art 230).

Art 154 Introduction to Graphic Design (4) (Fws)

Studio inquiry into the nature of graphic design. Including: Visual problem-solving, introduction to typography, symbols, lettermarks, logotypes, publication design and diagrams, as well as client/designer relations, studio operations and production procedures for print media. Prerequisites: Art Foundations or consent of instructor.

Art 156 Introduction to Painting (2-4) (W)

Contemporary and historical approaches to painting; materials, techniques and theoretical bases of 20th Century art. Prerequisites: Art Foundations or consent of instructor.

Art 157 Introduction to Printmaking (1-4) (F)

Historic development of relief printing, intaglio, lithography and serigraphy. Prerequisite: Art Foundations or consent of instructor.

Art 160 Introduction to Sculpture (3) (F)

Survey of the materials, methods and techniques of sculpture. Prerequisite: Art Foundations or consent of instructor.

Art 162 Introduction to Watercolor (4) (S)

Techniques and creative expression in water media. Emphasis on transparent watercolor. Representational and non-objective approach. Prerequisite: Art Foundations or consent of instructor.

Art 175 Introduction to Jewelry Making (4)

Creative jewelry-making processes: design, materials and techniques. Prerequisite: Art Foundations or consent of instructor.

Art 200A Ceramics Studio (2-15) (Fws)

200 level courses concentrate on developing student's skills, techniques and aesthetics of forms thrown on the potter's wheel. Enlarged and extended experiences in decorating and glazing techniques.

200B Graphic Design Studio, Visual Ideas (1-16) (Fws)

In-depth studio investigations in selected areas of graphic image making and planning, i.e. symbols, typography, diagrams, displays, packaging, and illustrative and photographic applications. Prerequisite: Art 154 or consent of instructor.

200C Painting Studio (1-15) (Fws)

Investigation of painting in areas of particular interest to the student based on an initial contractual agreement between the student and the instructor. Emphasis upon introductory level technical skills, media investigation and concepts. Prerequisites: Foundation Drawing I and II, Basic Design, Color Design and the completion of 20 Art credits.

200D Printmaking Studio (2-15) (Fws)

Development of the technical facility and appropriate imagery in any one of the traditional printmaking media as relief printing, intaglio, lithography or serigraphy. The scope of work and media will be determined in a contractual agreement between the student and instructor. Prerequisites: Foundation studies plus Art 157 Introduction to Printmaking.

200E Sculpture Studio (1-15) (Fws)

Exploration of sculpture concepts and media. Emphasis upon introductory level technical skills, media investigation and concepts.

200F Photography Studio (3-15) (Fws)

Development of technical facility using the zone system exposure control, the relative adjustment of film sensitivity and the developer. Refinement of lighting techniques, composition and conceptual considerations. The scope of work will be determined in contractual agreement between student and instructor. Prerequisite: Basic Photography or consent of instructor.

200H Drawing Studio (1-15) (Fws)

Investigation of drawing in areas of particular interest to the student based on initial contractual agreement between student and instructor. Emphasis on continued refinement of introductory level technical skills, media investigation and concept. Prerequisites: Foundation Drawing I, II, Life Drawing and Basic Design; completion of 20 art credits.

200L Pictorial Illustration Studio (3-12) (Fws)

Development of drawing and painting skills in order to visualize a variety of narrative concepts in pictorial form. Prerequisites: Art 152 and consent of instructor.

200M Portrait Sculpture

Art 210 Creative Crafts (2) (W)

Explore materials for instruction in school art curricula traditionally associated with crafts. Simple weaving, stitchery, wood sculpture, batik and print making will be investigated. Prerequisite: Art 103, BFA/BS art majors or consent of instructor.

Art 220 Papermaking (3)

Survey of materials, methods and techniques of hand papermaking. Prerequisite: Art Foundations or consent of instructor.

Art 230 Basic Photography (3) (Fws)

Introduction to photography as a fine art discipline, including aesthetics, elementary theory, exposure and processing of black and white film. See Mass Communications 230.

Art 233,234,235 History of Art in the Western World I, II, III (4 each) (FWS)

Architecture, painting and sculpture in their historical and cultural context. 233: Prehistory through early Christian and Byzantine Art, 234: Early Medieval period through the High Renaissance in Venice, 235: Baroque through Modern Art. Prerequisite: Sophomore standing. Recommended to be taken in sequence.

Art 252, 253 Life Drawing-Advanced Life Drawing (3 each) (FW)

Studies from live models emphasizing interpretation and anatomical accuracy. Advanced study emphasizes figure in composition using a variety of media. Prerequisite: Foundations Drawing II or consent of instructor. May be repeated up to 16 credits.

Art 262 Watercolor (3-12) (S)

Creative painting in transparent and opaque watercolor. Painting problems and solutions. Prerequisite: Art 162 or consent of instructor.

Art 268 Glass Blowing (3) (Fws)

Off-hand glass working; basic forms and techniques in working tank glass; some color; accessories. May be repeated.

Art 270 Art Appreciation: Content and Form (4) (Fws)

Visual art as reference and expression in the life of man; form and materials used by artists. For non-majors.

Art 271 Art Appreciation: Great Masters (3)

Artistic personalities and works of selected masters from ancient to modern times presented through slides, lecture and film. For non-majors.

Art 272 Art Appreciation: Art Today (3)

Consideration of current art trends and movements since the 1950s. An understanding through slides, film and lecture of the multiplicity of contemporary styles. For non-majors.

Art 298 Gallery Management (1-4) (on demand)

A study of the design installation and lighting of exhibitions of art, documentation, public relations, publicity and financial management. Prerequisite: Sophomore standing or consent of instructor.

300A Ceramics Studio (2-15) (Fws)

300 level courses continue exploration of wider number of directions that are possible with clay and glazes. Advanced handbuilding is also encouraged. At this level also formal problems in glaze chemistry and kiln operation are begun.

300B Graphic Design Studio, Systems (1-16) (Fws)

Advanced visual problem solving in selected areas of component or serial image systems, i.e. books, brochures, exhibitions, displays, alphabets, slide presentations, visual identity, etc. Some independent work may be contracted at this level. Prerequisite: Art 200B

300C Painting Studio (1-15) (Fws)

Development beyond the second year based on initial contractual agreement between student and instructor. Individual research in historical or technical expertise is encouraged. Continued investigation of form, color, space and imagery, with increased conceptual emphasis. Prerequisites: 200C and 40 art credits.

300D Printmaking Studio (1-15) (Fws)

Refinement of technical skills and conceptual quality appropriate to a particular media as relief printing, intaglio printing, lithography or serigraphy. Experimentation in color printing and combination of processes. The scope of the work and media will be determined in a contractual agreement between the student and the instructor. Prerequisites: Printmaking Studio 200 or consent of instructor.

300E Sculpture Studio (1-15) (Fws)

Refinement of selected technical skills, in harmony with the development of form and content.

300F Photography Studio (3-15) (Fws)

Refinement of technical facility and concentration to the subjects of portraits, characterization of individuals and architectural forms. Experimentation with hand coloring techniques. The scope of the work and the media will be determined in a contractual arrangement between the student and the instructor. Prerequisite: Photo 200F and consent of instructor.

300H Drawing Studio (1-15) (Fws)

Refinement of previously acquired introductory knowledge and experimentation at the 200 level, based on initial contractual agreement between student and instructor. Continued investigation of media, including color, and increased conceptual emphasis. Prerequisites: Completion of all foundation level studies and 40 art credits.

300L Pictorial Illustration Studio (3-12) (Fws)

Development of systems concept for variety of illustration topics with the goal to clearly articulate a concept in visual language to a client and the intended audience. Prerequisites: Art 152, 200L, and consent of instructor.

Art 320 Philosophy of the Arts (4)

Philosophical questions in fine arts. Topics include the nature of art and aesthetic experience and criticism. Prerequisite: One course in philosophy or consent of instructor. See Phil 320(g) Philosophy of the Arts.

Art 329 Photographic Silkscreen Process (2-4) (on demand)

Directed studio investigation of the screen printing process via photo-sensitive stencil methods. Prerequisite: Consent of instructor.

Art 340 Art in the Elementary School (2) (Fws)

Exploratory course in theory and techniques applicable to art in the elementary curriculum. Prerequisite: Art 100. For PFY majors only.

Art 352 Life Drawing Anatomy (4) (Fws)

Study from life models of human structure relative to surface manifestations of movement, age and posture. May be repeated for up to 12 credits. Prerequisite: Acceptance of competency portfolio at level of Art 253.

Art 353(g) Psychology and the Arts (4)

An understanding of the relationship of the fundamental principles of psychology to the arts is developed from the formal beginning of psychology to the present. Prerequisite: Psy 113 or consent of instructor. See Psy 353(g) Psychology and the Arts.

Art 391 Junior Seminar: Theory and Form of Contemporary Art (3) (WS)

Investigation of theoretical concerns and other historical factors influencing the development of contemporary visual arts. Prerequisite: Junior standing in art and consent of instructor.

400A Ceramics Studio(2-15 each quarter) (Fws)

400 level contracts are usually issued to senior majors in Ceramics. The work done by these students is most often connected to the senior exhibition and extends students to produce work of their highest capabilities.

400B Graphic Design Studio Independent Work (1-16) (Fws)

Advanced studio work with real visual problems and production. These investigations may be initiated by the student, commissioned on or off campus or developed under design direction of the instructor, i.e. visual identity, publication design, art exhibition promotion and/or other university publication design. Prerequisite: Art 300B

400C Painting Studio (1-15) (Fws)

Further development of conceptual and formal qualities of painting in media or medium of particular interest to the student based on previous investigation and initial contractual agreement between student and instructor. Emphasis on the development of a cohesive body of work showing coordination of technical, formal and conceptual issues in the context of personal imagery. Prerequisites: 60 art credits.

400D Printmaking Studio (1-15) (Fws)

Further development of conceptual and formal qualities of creative work in a selected printmaking media such as relief printing, intaglio printing, lithography or serigraphy, with emphasis on consistency of small editions. The scope of the work and media will be determined in a contractual agreement between the student and instructor. Prerequisites: Printmaking Studio 300D and consent of instructor.

400E Sculpture Studio (1-15) (Fws)

Problem solving concepts and media in preparation for creating conclusive work with decorative or expressive objectives.

400F Photography Studio (3-15) (Fws)

Further development of conceptual and formal qualities in selected non-silver process photographic projects, plus color photography and processing. The scope of the work and the media will be determined in contractual arrangement between the student and the instructor. Prerequisite: Photo 300 and consent of instructor.

400H Drawing Studio (1-15) (Fws)

Further development of conceptual and formal qualities of drawing in media or medium of particular interest to the student based on previous investigation and initial contractual agreement between student and instructor. Emphasis on the development of a cohesive body of work showing coordination of technical, formal and conceptual issues in the context of personal imagery. Prerequisite: 60 art credits.

Art 400L Pictorial Illustration Studio (3-12)*(Fws)*

Further development of conceptual and formal qualities of illustration in media selected appropriate to the subjects. Emphasis on conclusive clear pictorial statement. Prerequisites: Art 152, 200L, 300L and consent of instructor.

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 15th and 16th centuries. Prerequisite: Art 233-234 or consent of instructor.

Art 422(g) Baroque Art (4)

The artistic achievements of the 17th and 18th centuries in Europe. Prerequisite: Art 233, 234, 235 or consent of instructor.

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

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 19th century to the present. 430: 19th 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 19th and 20th 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 19th 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 15th 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 440 Art in the Secondary School (4) (W)

Exploratory course in theory and techniques applicable to the relationship of art in the secondary curriculum—junior high and high school. Prerequisite: B.S. Art Major or Minor or consent of instructor.

Art 441 Practicum in Art Education Grades: 7-12 (1) (Fws)

A practical field experience in teaching non-traditional art experience. Prerequisite: Art majors working toward 7-12 licensure.

Art 442 Studies in Elementary School Art: Grades K-6 (3) (on demand)

Exploratory course in theory and techniques applicable to the relationship of art in the elementary school curriculum. Prerequisites: Art 100 for non-majors or consent of instructor. (Art Education majors only).

Art 443 Practicum in Art Education: Grades K-6 (1) (Fws)

A practical and field experience in teaching non-traditional art experiences. Prerequisite: Art majors working toward the K-6 grade licensure or consent of instructor.

Art 447 Topics in Art (2-9) (on demand)

Studies selected from art history, theory of ceramics, drawing, graphic design, painting, photography, printmaking, sculpture and watercolor. Prerequisite: Junior standing and consent of instructor.

Art 449 Senior Seminar: Art and Society (3) (FS)

Review of the economics, social and legal concerns of the contemporary visual artist and art educator. Prerequisite: Senior standing in art and consent of instructor.

Studios in the B.F.A. Program (6-16)**451A-452A-453A Ceramic Studio (Fws)**

Assuming that the accepted student has mastered all of the preceding experiences and has presented a portfolio of high competency demonstration, the hours devoted to the major level BFA program involves one with a concentration in a single-minded project in ceramics-decorating, glazing, firing, formal elements, and/or sets and other. BFA standing.

451B-452B-453B Graphic Design Studio (Fws)

Senior project preparation for BFA candidacy fulfillment, portfolio preparation, and project presentation. Three month, 3-16 credit design internships may also be available and encouraged prior to graduation. Prerequisite: Art 400B and BFA standing.

451C-452C-453C Painting Studio (Fws)

In-depth problem analysis and conceptual refinement of personal imagery in selected painting media, as well as continued development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition in preparation for further career development either in formal setting or in the field. Prerequisites: 80 art credits and BFA standing.

451D-452D-453D Printmaking Studio (Fws)

In-depth problem analysis and high quality technical refinement of editions. Development of personal imagery in a cohesive portfolio of fine prints. The scope of the work and media will be determined in a contractual arrangement between the student and the instructor.

451E, 452E, 453E Sculpture Studio (Fws)

In-depth problem analysis and conceptual refinement of personal imagery in selected sculpture media, as well as continuing development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition preparation for further career development, either in formal setting or in the field. Prerequisite: 80 Art credits and BFA standing.

451F-452F-453F Photography Studio (Fws)

In-depth problem analysis and high quality technical refinement of prints. Development of personal imagery and conceptual approach in a cohesive visual investigation documented in a portfolio of photographic works. The scope of the work and media will be determined in a contractual arrangement between student and instructor. Prerequisite: 80 credits in art and BFA standing.

451H-452H-453H Drawing Studio (Fws)

In-depth problem analysis and conceptual refinement of personal imagery, as well as continued development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition in preparation for further career development either in formal setting or in the field. Prerequisites: 80 art credits and BFA standing.

451L-452L-453L Pictorial Illustration Studio (Fws)

In-depth problem analysis and conceptual refinement of personal imagery in selected illustration media, as well as continued development of a cohesive body of work. Emphasis preparation for professional presentation in preparation for further development either in a formal setting or in the field. Prerequisites: 80 art credits and BFA standing.

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 469(g) Student Internship in Art (3-16) (on demand)

A (one term) self-directed exploration or professional experience with an artist, art museums or studio. Prerequisite: Senior standing in art, consent of advisor and approval by faculty internship committee.

Art 532 Studies in Art History (3-18) (on demand)

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) (on demand)

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 550 Studies in Drawing (3-18) (on demand)

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 portfolio.

Art 551 Studies in Photography (3-18)

(on demand)

Individual studio concentration in photography with advanced technical and conceptual explorations. Projects are developed by the students individually with the advice of the faculty. Prerequisite: Consent of Art Studio faculty on presentation of portfolio.

Art 552 Studies in Painting (3-18) (on demand)

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) I

(on demand)

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) (on demand)

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)

(on demand)

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)

(on demand)

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)

(on demand)

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)

(on demand)

Independent research for advanced graduate students in art theory and creative practice. Repeated to a maximum of 6 credits. Prerequisite: Consent of instructor and advisor.

Art 599 Thesis (1-6)

Registration only after consultation with major advisor.

Astronomy

See Physics-Astronomy for Curricula.

ASTRONOMY COURSES

Ast 100 Introduction to Astronomy (4) (FWS)

A summary of current concepts of the structure of the universe from Solar System to distant galaxies.

Ast 100L Introductory Astronomy Laboratory (1)

Observational work in astronomy. The course involves acquisition and analysis of data acquired from observation of celestial objects as well as of data gathered in the laboratory. The course may include observation of celestial motions, study of lunar surface features, spectroscopy and radioactive decay. Prerequisite or corequisite: Astronomy 100 or permission of the instructor.

Ast 101 Observational Astronomy (3)

(On demand)

Non-technical introduction to naked-eye astronomy and observing with small telescopes. The course is primarily project-oriented. Includes laboratory.

Ast 200 Cosmology (4) (On demand)

Theoretical principles and observational evidence regarding the large-scale structure and evolution of the universe. Prerequisite: Astronomy 100 or permission of instructor.

Ast 260 Planetary Science (4) (On demand)

A synthesis of current knowledge of the members of the solar system and the origin and evolution of planetary systems. Includes laboratory. Prerequisite: Ast 100 or permission of instructor.

Ast 300 Topics in Modern Astronomy (1-4) (On demand)

Non-technical consideration of topics of current interest in astronomy. May be repeated as topics and course titles vary. Prerequisite: Ast 100 or permission of instructor. (Consent of the instructor required if the course is to be repeated for credit.)

Ast 350 Astrophotography (2) (On demand)

Use of the camera, telescope, Schmidt camera and other instruments for taking photographs of celestial objects. Prerequisite: MC 230 or permission of instructor, and Ast 101.

Ast 380 Celestial Mechanics (3) (On demand)

Principles of celestial mechanics, central force motion, two body problem, n body problem, prediction and determination of orbits, perturbations. Prerequisite: Phys 330.

Ast 410 Astrophysics (3) (On demand)

Mathematical consideration of various topics in introductory astrophysics. May be repeated as course titles vary. Prerequisite: Junior status in Physics. May be taken as Phys 410.

Ast 499 Topics in Advanced Astronomy (1-5) (On demand)

Consideration of special problems or the study of introductory topics at a more advanced level. Prerequisite: Consent of instructor. May be repeated for credit with consent of instructor for no more than three times or 10 credits.

Biology Department King Hall 103, (218) 236-2572

Chair: Richard H. Pemble

Faculty: Monroe H. Bartel, Thomas W. Collins, Phyllis H. Harber, Mary A. Shimabukuro, Kenneth R. Skjegstad, Donna R. Bruns-Stockrahm, Mark Wallert, Robert S. Weibust, Kathryn M. Wise

AREAS OF STUDY: Majors in Biology, Life Science (Teaching), Cytotechnology, Medical Technology and Minors in Biology, Botany, and Zoology.

BIOLOGY CURRICULA

The Biology Department offers several programs leading to the baccalaureate degree in addition to providing course work and advising in many pre-professional areas.

The Biology major is excellent preparation for the health-related professional schools or entry into occupations related to life science in government or the private sector. Biology majors, with proper selection of courses, are well prepared to enter graduate school in the biological sciences. Other majors in the department prepare students for careers in cytotechnology, medical technology and secondary teaching.

The department offers a Bachelor of Arts degree in Biology and Bachelor of Science degrees in Life Science (Teaching), Cytotechnology and Medical Technology. Minors in Biology, Botany and Zoology are designed to support other fields of study such as psychology, chemistry and certain business majors. The sequential nature of the biology curriculum and the necessity to coordinate certain biology courses with courses required in other disciplines make it essential that students considering any of the majors in the Biology Department consult a member of the Biology faculty early in their college career.

Major in Biology (B.A. Degree)

This curriculum is designed for students preparing for a variety of entry-level professional positions in the biological sciences and for students who wish to prepare for graduate or professional school in the biological or medical sciences. The program is flexible and careful choice of electives, selected in consultation with one's advisor, will allow students to satisfy specific interests and vocational objectives. Although the program provides a broad background in biology it is suggested that a student augment the major with a minor(s) in one of the other sciences or mathematics. In fact, most Biology majors complete a Chemistry minor. Transfer students wishing to complete the Biology major must complete at least 8 credits selected from approved 300-400 level courses in the Department of Biology at Moorhead State University regardless of the number of transfer credits accepted toward the major.

Major Requirements in Biology (50 credits)

Biol 111 Cell Biology (4)
Biol 112 General Zoology: Invertebrate (4)
Biol 113 General Zoology: Vertebrate (4)
Biol 122 General Botany I (4)
Biol 123 General Botany II (4)
Biol 341 Genetics (4)
Biol 345 Principles of Ecology (4)
Biol 348 Organic Evolution (4)
Biol 350 Microbiology (4)

One of the following (4):

Biol 306 Animal Physiology

Biol 424 Plant Physiology

Biol 450 Cell Physiology

Any two of the following (2):

Biol 481, 482, 483

Biology Seminar I-II-III

Additional Electives in Biology (8)

(Selected from approved 300 and 400 level courses)

Requirements in Related Fields (51 credits)

Chem 111-112-113

General Chemistry (12)

Chem 111L-112L-113L

General Chemistry Laboratory (or 111H-112H-113L) (3)

Phys 111-112-113

Elementary Physics I-II-III (12)

Mathematics (at least 12 credits including Math 133, Trigonometry, or the high school equivalent and excluding Math 100 and 203. May include no more than one course in Computer Science.) Additional approved electives in Chemistry, Physics or Mathematics (at least 12 credits).

Major in Life Science (Teaching) (B.S. Degree)

This curriculum is designed to prepare students for licensure to teach life science courses in secondary schools. A minor is not required, but students are encouraged to complete minor licensure requirements in an area(s) such as mathematics, another science, or coaching to increase their employability. Transfer students wishing to complete the Life Science (Teaching) major or those who already have a degree but are fulfilling certification requirements must complete at least 8 credits selected from approved 300-400 level courses in the Department of Biology at Moorhead State University regardless of the number of transfer credits accepted toward the major.

Requirements include all those listed for the Biology (B.A.) major above

Additional certification requirements in science (16 credits)

Biol 440 Biology Methods for Secondary Schools (4)

Geol 115 Physical Geology (4)

Ast 100 Introduction to Astronomy (4)

Geog 241 Elementary Meteorology (4)

(All Teacher Education Requirements must be fulfilled to complete this major. See Teacher Education under Education Department.)

Major in Cytotechnology (B.S. Degree)

Director: Kathryn Wise

The curriculum complies with the recommendations set forth by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the American Society of Cytotechnology as well as the guidelines of the Essentials of an Accredited Education Program for the Cytotechnologist. Upon successful completion of the three years of campus course work and the year of clinical education at an affiliated school, the student is granted the B.S. Degree, major in Cytotechnology. The graduate is eligible for certification as a Cytotechnologist through successful completion of the National Registry Examination.

Major Requirements in Biology (32 Credits)

Biol 111 Cell Biology (4)

Biol 112 General Zoology: Invertebrate (4)

Biol 113 General Zoology: Vertebrate (4)

Biol 302 Histology (4)

Biol 306 Animal Physiology (4)

Biol 341 Genetics (4)

Biol 343 Histological Techniques (4)

Biol 350 Microbiology (4)

Requirements in Related Fields (15 Credits)

Chem 111-112-113

General Chemistry I-II-III (12)

Chem 111L-112L-113L

General Chemistry Laboratory

(or 111H-112H-113L) (3)

Recommended Electives

Biol 215 Human Anatomy (4)

Biol 301 Embryology (4)

Biol 309 Prin. of Hematology

Biol 410 Parasitology (4)

Biol 470 Immunology (3)

Biol 471 Immunology Laboratory (1)

ComS 145 Business Data Processing (4)

Math 274 Intro. Statistics I. (4)

Internship in Clinical Education (48 Credits)

Biol 465 Cytotechnology Clinical Education

(6 or 12, repeated to total 48 credits) as follows:

General Principles of Cytology (3)

Gynecologic Cytology (6)

Advanced Gynecologic Cytology (4)

Bronchial Cytology (5)

Urinary Cytology (4)

Gastrointestinal Cytology (2)

Body Cavity and Misc. Secretion Cytology (6)

Fine Needle Aspiration Cytology (3)

Cytogenetics (3)

Cytopreparation Techniques (6)

Seminar (2)

Independent Projects (4)

This requirement is fulfilled when the student completes the year of Clinical Education at one of the affiliated schools listed below. Admission to the Clinical Education Program is based on an interview, recommendations, academic record and the available student space.

Mayo School of Health Related Sciences, Rochester, Minnesota
State Laboratory of Hygiene, University of Wisconsin, Madison

Major in Medical Technology (B.S. Degree)

Director: Kathryn Wise

The curriculum complies with the recommendations set forth by the Essentials of an Accredited Educational Program for Medical Technologists as adopted by the Committee on Allied Health Education and Accreditation. Upon successful completion of the three years of campus course work and the year of clinical education at an affiliated hospital, the student is granted the B.S. Degree, major in Medical Technology with a minor in chemistry. The graduate is eligible for certification as a Medical Technologist through successful completion of an examination given by the American Society of Clinical Pathologists and/or the National Certification Agency.

Major Requirements in Biology (32 Credits)

Biol 111 Cell Biology (4)
Biol 112 General Zoology: Invertebrate (4)
Biol 113 General Zoology: Vertebrate (4)
Biol 306 Animal Physiology (4)
Biol 350 Microbiology (4)
Biol 410 Parasitology (4)
Biol 470 Immunology (3)
Biol 471 Immunology Laboratory (1)
Biol 475 Pathogenic Microbiology (4)

Requirements in Related Fields (43 Credits)

Chem 111-112-113
General Chemistry I-II-III (12)
Chem 111L-112L-113L
General Chemistry Laboratory
(or 111H-112H-113L) (3)
Chem 237-238-239
General Organic Chemistry Laboratory I-II-III (9)
Chem 237L-238L-239L General Organic Chemistry Laboratory (3)
Chem 321 Quantitative Analysis (4)
Chem 461, 462 Biochemistry I-II (6)
Chem 464, 465 Biochemistry Laboratory I-II (2)
Mathematics: 4 credits to include Math 274, Intro. to Statistics I, or Math 375, or equivalent; and one of the following:
(A) the achievement of at least a B average in three years of high school math and ACT or SAT scores above the 75th percentile, or above the 50th percentile in a CLEP math examination; or
(B) any other college mathematics course(s) at or above the level of Math 121, Intermediate Algebra.

Recommended Electives

Biol 309 Principles of Hematology (4)
Biol 341 Genetics (4)
ComS 145 Business Data Processing (4)

Internship in Clinical Education (48 credits)

Biol 460 Medical Technology Clinical Education (6 or 12, repeated to total 48 credits) as follows:
Hematology/Coagulation (0-12)
Blood Bank/Serology (0-10) (Immunohematology/ Immunology) Microbiology (0-12)
Parasitology (0-7)
Mycology (0-1)
Chemistry (0-12)
Management (0-1)
Teaching Methods/Education (0-1)
Microscopy (0-4)
Clinical Urinalysis (0-2)
Miscellaneous body fluids (0-2)

This requirement is fulfilled when the student completes the year of Clinical Education at one of the affiliated hospitals listed below. Admission to the Clinical Education Program is based on an interview, recommendations, academic record and the available student space.

The Penrose-St. Francis Healthcare System,
Colorado Springs, Colorado
United Hospital, St. Paul, Minnesota
Fargo Clinic-St. Luke's Hospitals MeritCare,
Fargo, North Dakota
St. Alexius Medical Center, Bismarck, North Dakota
Trinity Medical Center, Minot, North Dakota

Minors in Biology, Botany, and Zoology

The complete program in any of these minors must be approved by the chair of the Department of Biology. Students are urged to consult with an advisor in the department prior to selection of electives to be applied to a minor. Transfer students must complete at least 8 credits selected from approved 300-400 level courses in the Department of Biology at Moorhead State University regardless of the number of transfer credits accepted toward completion of the minor.

Minor in Biology (32 credits)

Biol 111 Cell Biology (4)
Biol 112 General Zoology: Invertebrate (4) Biol 113 General Zoology: Vertebrate (4)
Biol 122 General Botany I (4)
Biol 123 General Botany II (4)
Plus 12 credits in biology to be selected from those required for the major.

Minor in Botany (28 credits)

Biol 111 Cell Biology (4)
Biol 122 General Botany I (4)
Biol 123 General Botany II (4)
Approved Electives in Botany (16)

Minor in Zoology (28 credits)

Biol 111 Cell Biology (4)

Biol 112 General Zoology: Invertebrate (4)

Biol 113 General Zoology: Vertebrate (4)

Approved electives in Zoology (16)

BIOLOGY COURSES

Biol 102 Matter and Life (4) (FWS)

Biological principles with emphasis on the chemical and physical basis for life at the cellular level. Includes topics on genetics and evolution. For non-science majors.

Majors or minors in any area of biology should take Biol 111 instead.

Biol 103 Humanity and the Ecosystem (4) (FWS)

Survey of general ecology emphasizing human impact on the environment; population, pollution, etc. For non-science majors.

Biol 104 Human Biology (4) (FWS)

The basic structure, function, development and genetics of the human organism. For non-science majors.

Biol 105 Exploring Biology (4) (S)

Principles of biology with emphasis on human biology, basic concepts in ecology and the impact of specific environmental problems. For non-science majors. Lab required. This course may be particularly appropriate for prospective elementary teachers.

Biol 111 Cell Biology (4) (Fw)

Fundamental concepts of the structure, function and reproduction of cells. With lab.

Biol 112 General Zoology: Invertebrate (4) (S)

Comparative structure and function of major invertebrate phyla. With lab. Prerequisite: Biol 111 or consent of instructor.

Biol 113 General Zoology: Vertebrate (4) (W)

Topics include: Origin of life; evolution; a survey of vertebrate classes; the anatomy and physiology of organ systems. With lab. Prerequisite: Biol 111 or consent of instructor.

Biol 122 General Botany I (4) (W)

Survey of the major groups of plants, algae and fungi emphasizing structural and reproductive patterns. With lab. Prerequisite: Biol 111.

Biol 123 General Botany II (4) (S)

Structure, function, growth and reproduction of angiosperms. With lab. Prerequisite: Biol 111.

Biol 190 Independent Study in Biology (1-4)

Independent study portion of the area study requirement for External Studies Program. Biology advisor's approval required; maximum 8 credits.

Biol 215-216 Human Anatomy and Physiology I-II (4 each) (WS)

Basic structure and function of the human organism. Meets needs of pre-nursing and other non-biology majors. With lab. Prerequisite: Biol. 102 or Biol. 104 or Biol. 111 or consent of instructor.

Biol 226 Field Biology of Plants (4) (Summer Session)

An introduction to plant identification, ethnobotany and ecology. Laboratory activities and field trips will focus on the local flora and vegetation. No prerequisites.

Biol 236 Introduction to Microbiology (4) (S)

Concepts and application of microbiology. For paramedical, health, physical education, agriculture majors. Not for medical technology, biology majors, minors. With lab. No prerequisite.

Biol 241 Principles of Human Genetics (4) (W)

An introduction to human genetics for the non-biology major. Without lab. No prerequisite. (Biol 102, 104 or 111 recommended).

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) (W or S)

Microscopic characteristics of human tissues and organs, structural-functional correlation, histogenesis. With lab. Prerequisite: Biol 113.

Biol 304 Biology of Women (4) (F)

A study of the gender-related aspects of the biology and behavior of women, including a critical examination of research in this field. Prerequisite: Biol 104 or consent of the instructor and junior standing. Not applicable toward a major or minor in any area of biology.

Biol 306 Animal Physiology (4) (fW)

An introductory study of functional aspects of the organ system of animal species. With lab. Prerequisite: Biol 113 and Chem 113, or consent of the instructor.

Biol 309 Principles of Hematology (4) (S)

Biochemical, physiological and immunological processes involved in normal blood formation and function and disturbances that may occur in different diseases. With lab. Prerequisite: One year each of biology and chemistry or consent of instructor.

Biol 310 Comparative Vertebrate Anatomy (4) (F)

A comparative morphological study of selected animal species including lamprey, shark, *Necturus* and cat. With lab. Prerequisite: Biol 113.

Biol 317 Ichthyology (4) (S 92)

The morphology, physiology, taxonomy and ecology of fishes, with emphasis on the Upper Midwest species. With lab and field work. Prerequisite: Biol 113.

Biol 318 General Entomology (4) (W)

The morphology, taxonomy, physiology, reproduction and the economics of the Insecta. With lab and field work. Prerequisite: Biol 112, Biol 123 desirable.

Biol 325 Plant Taxonomy (4) (S)

Identification, principles of classification and phylogeny of the vascular plants with emphasis on the angiosperms. With lab and field work. Prerequisite: Biol 123 or consent of instructor.

Biol 341 Genetics (4) (FS)

A survey of the modern molecular and classical Mendelian principles underlying biological inheritance. With lab. Prerequisite: Biol 111.

Biol 343(g) Histological Techniques (4) (W)

Tissue preparation for histological, histochemical and fluorescent studies. With lab. Prerequisite: Biol 113 (Chem 113 recommended) or consent of instructor.

Biol 345 Principles of Ecology (4) (FS)

Basic relationships of plants and animals to their environment. Field work will emphasize local species. With lab and field work. Prerequisite: Biol 113 and 123.

Biol 348 Organic Evolution (4) (WS)

The historic development and the genetic interpretation of the major principles of evolution and speciation. Prerequisite: Biol 341 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. Prerequisite: One year each of chemistry and biology or consent of instructor; Biol 341 recommended.

Biol 355(g) Wildlife Ecology (4) (F 91)

The application of ecological principles to the management of wildlife populations. Population dynamics and field techniques are stressed. With labs. Prerequisite: Biol 345.

Biol 402 Principles of Animal Behavior (4) (S)

The genetic, ecological, evolutionary, and physiological aspects of animal behavior including the historical background, kin selection, communication, aggression, navigation, and reproductive behavior. With lab. Prerequisite: Biol. 341 and 345 or permission of instructor. Biol. 348 recommended.

Biol 410(g) Parasitology (4) (S 92)

Principles and importance of parasitism and exemplified by selected parasitic protozoa, helminths and arthropods. With lab. Prerequisite: Biol 112 and 113.

Biol 417 Ornithology (4) (S)

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 440 Secondary Science Teaching Methods (4) (Ws)

Materials and methods appropriate for junior and senior high school classes and laboratories. Junior standing in a science education program. Must be taken prior to student teaching. See Chem 440 or Phys 440.

Biol 445(g) Limnology (4) (Summer Session)

Aquatic ecology; analysis of the physical, chemical and biotic factors that affect life in lakes, ponds, streams. With lab and field work. Prerequisite: 30 quarter hours of college biology, including Biol 345, and one year of college chemistry.

Biol 449(g) Molecular Biology (4) (W)

Cell structure in relation to function at the molecular level including the use of molecular techniques in cellular biology. Prerequisite: Biol 341 and Chem 113.

Biol 450(g) Cell Physiology (4) (S 92)

Function of homeostatic mechanisms in cells. The laboratory will emphasize standard techniques for working with cells including cell culture and the measurement of a variety of physiological parameters. With lab. Prerequisite: Biol 112 or 123 and Chem 238 or consent of instructor.

Biol 460 Medical Technology Clinical Education (6 or 12, repeated to total 48 credits)

Clinical education in a school of medical technology in an affiliated hospital. Prerequisite: 144 credits of prescribed and elective courses in the medical technology curriculum and the consent of the medical technology advisor.

Biol 465 Cytotechnology Clinical Education (6 or 12, repeated to total 48 credits)

Clinical education in a school of cytotechnology in an affiliated school or clinic. Prerequisite: 144 credits of prescribed and elective courses in the cytotechnology curriculum and the consent of the cytotechnology advisor.

Biol 469 Student Internship in Biology (8-16) (on demand)

A supervised work experience generally involving research in a governmental agency or the private sector. Prerequisite: Senior standing in Biology and approval by Department Internship Committee.

Biol 470(g) Immunology (3) (W)

Introduction to antibody-mediated immunity and cell-mediated immunity. Biol 471, Immunology Laboratory may be taken concurrently. Prerequisite: 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. Prerequisite: 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. Prerequisite: 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.

Biol 490 Senior Research in Biology (1-3) (on demand)

Individual research; project and its format must be accepted by the research advisor prior to registration. Prerequisite: Senior standing in major and consent of instructor.

**Business Administration
Department
Bridges 260, (218) 236-2486**

Chair: Earl Alberts

Faculty: Kerri Acheson, M. Wayne Alexander, Johnny K.C. Chan, Ben Clapp, Harley Danielson, Peter Geib, Rosalinda Hoops, Rajiv Kalra, Ravindranath Linga, Alan MacDonald, Molly Moore, James Noehl, Tom Pearce, Sam Roy, James Swenson, Clyde Vollmers, James Walker, Marsha Weber, Carol Wilson, Sandra Williams.

AREAS OF STUDY: Business Administration, Finance, Management, Marketing, Hotel-Motel-Restaurant Management, International Business.

The Business Administration Department has approximately 1,400 majors and is one of seven departments in the Division of Business, Industry and Applied Programs. Students enjoy a high degree of flexibility when choosing from the Department's six degree programs and 86 courses. An increasing number of students from other disciplines at Moorhead State University choose one of the Department's five minor programs.

In addition to providing excellent depth in degree programs and courses, the Department offers students rich and varied non-traditional experiences. Students may earn up to 12 credits in an internship program that consists of supervised business training in a local or regional business firm. Consulting experience can be gained through the Department's participation in the Small Business Development Center where teams of students visit small local businesses to solve real-world business problems over a period of 10 weeks. Students enjoy other benefits as a result of the departmental policy of offering approximately 30 percent of its classes at night. In addition to creating greater opportunities for part-time employment, the evening classes generate an interesting mix of students. The heterogeneity of ages and backgrounds often produces stimulating classroom discussion. While the basic programs in the Business Administration Department contain an excellent variety of courses, a student may pursue a subject in even greater depth through an Independent Study course which consists of a faculty-supervised research and reading project.

Business majors who graduate fall 1990 or later must have grades of "C" or better in all courses used to satisfy the business core and upper-division requirements. (All business students who graduate Fall 1990 or later are subject to this policy.)

Business Division Upper-Level Course Admission Policy

All students with fewer than 90 credits who intend to major in a business field (Accounting, Business Administration, Business Education, Finance, Hotel-Motel-Restaurant Management, International Business, Management, Marketing and Office Administration) will be designated as pre-business. Pre-Business majors who intend to major in Business Administration, Finance, Hotel-Motel-Restaurant Management, International Business, Management or Marketing must complete the following courses before application to a specific business program:

Accounting* 200, 229, 230, 231
Economics * 202, 204, 206
English 101, 102, 103
Mathematics 273, 274, 275

*** All accounting and economics courses listed above must be completed with a grade of C or higher.**

Additionally, all students must have a minimum 2.5 GPA for admission to a specific business program.

Effective dates of this Admission Policy are as follows:
June 1, 1991 Incoming Freshmen
June 1, 1992 Incoming Transfers

All Pre-Business students who have completed and/or enrolled for at least 90 credits, have completed and/or enrolled in the required courses, and have the required GPA are eligible to apply for admission to a business field (Accounting, Business Administration, Business Education, Finance, Hotel-Motel-Restaurant Management, International Business, Management, Marketing or Office Administration). Applications will be accepted after the second and before the sixth week of the quarter in which the student has enrolled for the 90th credit.

Application forms are available in Bridges 260.

All Business majors who fail to meet any of the above requirements in all subsequent quarters will be subject to a one-quarter departmental probationary period. If requirements are not met at the end of the probationary period, the student will not be allowed to register for upper-division courses.

Students who wish to minor in business programs (either the minor for business majors or the minor for non-business majors) will be required to complete an application prior to declaration of the minor. Students who wish to declare a minor must have accumulated 90 credits, completed appropriate prerequisites and have a 2.5 GPA prior to admission to a business minor program.

An interdepartmental committee will meet regularly to consider appeals to any requirements or procedures.

Four-Year Programs

B.S. Degrees in Business Administration, Finance, Management, Marketing, International Business and Hotel-Motel-Restaurant Management are offered. The following program descriptions are subject to change. See Departmental Worksheets for current degree requirements.

80 Credits in Liberal Arts (64 credits) and other non-business courses are required

Requirements in Related Fields (40 credits)

Econ 202 Principles of Economics I (4)

Econ 204 Principles of Economics II (4)

Econ 206 Principles of Economics III (4)

CIS 145 Data Processing (4)

*Psy 113 General Psychology (4)

or Soc 110 Introduction to Sociology (4)

Psy 119 Social Behavior (4)

or Soc 205 Social Psychology (4)

Math 273 Linear Algebra/Applied Calculus I (4)

Math 274 Introduction to Statistics I (4)

Math 275 Introduction to Statistics II (4)

Speech 100,202,204,210,219,221,310 or 312 (4)

*Psy 113 and Soc 110 are required for Marketing majors

Business Core Requirements for Majors in Business Administration, Finance, Management, Marketing, Hotel-Motel-Restaurant Management and International Business (42 credits)

Acct 229 Principles I: Financial (4)

Acct 230 Principles II: Financial (4)

Acct 231 Principles III: Managerial (4)

Acct 200 Introduction to the Legal System (2)

Acct 300 Legal Environment of Business (4)

Finc 340 Corporate Finance (4)

Mktg 310 Principles of Marketing (4)

Mgmt 360 Principles of Management (4)

Mgmt 450 Production/Operations Management (4)

Mgmt 456 Management Information Systems (4)

Mgmt 490 Business Policy (4)

Major in Business Administration B.S. Degree (32 credits)

1. Mgmt 420 or 451
2. One quantitative course from the following list: Mgmt 421, Mgmt 424, Mktg 422, Mktg 410, Econ 370
3. Select three areas of study from the following five areas: Accounting, Economics, Finance, Management or Marketing.
4. Choose one course from each of the selected areas. Make sure that one of the three courses chosen is an international course (Acct 420, Econ 425, Finc 450, Mgmt 458, Mktg 444).

Accounting

- Acct 305 Business Law I (4)
- Acct 330 Intermediate Acct I (4)
- Acct 331 Intermediate Acct II (4)
- Acct 332 Intermediate Acct III (4)
- Acct 420 International Acct (4)
- Acct 441 Individual Tax (4)

Economics

- Econ 290 Econ Literature/Methods (3)
- Econ 302 Intermediate Microeconomics (4)
- Econ 304 Intermediate Macroeconomics (4)
- Econ 315 Government & Business (4)
- Econ 320 Money & Banking (4)
- Econ 370 Quantitative Economic Analysis (4)
- Econ 425 International Trade (4)

Finance

- Finc 440 Intermediate Finance (4)
- Finc 450 International Finance (4)
- Finc 456 Principles of Investment (4)
- Finc 457 Portfolio Analysis (4)

Management

- Mgmt 405 Small Business Management (4)
- Mgmt 420 Organizational Theory (4)
- Mgmt 421 Decision Analysis (4)
- Mgmt 424 Management Science I (4)
- Mgmt 440 Personnel Management (4)
- Mgmt 451 Organizational Behavior (4)
- Mgmt 458 International Management (4)

Marketing

- Mktg 320 Introduction to Logistics (4)
- Mktg 410 Marketing Logistics (4)
- Mktg 421 Consumer Behavior (4)
- Mktg 422 Marketing Research (4)
- Mktg 423 Marketing Communications (4)
- Mktg 444 Transnational Marketing (4)
- Mktg 455 Marketing Management (4)

5. Choose one additional course in each of your three selected areas from any courses offered in the areas of Accounting, Economics, Finance, Management and Marketing.

6. A maximum of four credits of Internship (Finc 469, Mktg 469, Mgmt 469) may be counted toward the Business Administration Requirements and Electives.

Major in Finance B.S. Degree

Choose one area of concentration from the following:

Corporate Finance (32 credits)

- Econ 302 Intermediate Microeconomics (4)
or Econ 304 Intermediate Macroeconomics (4)
- Econ 320 Money and Banking (4)
- Finc 321 Banking Policy (4)
- Finc 351 Risk Management (4)
- Finc 441 Advanced Corporate Finance (4)
- Finc 450 International Finance (4)
- Finc 456 Principles of Investment (4)
- Finc 458 Financial Decision Making (4)

Investments (32 credits)

- Econ 320 Money and Banking (4)
- Econ 304 Intermediate Macroeconomics (4)
or Econ 302 Intermediate Microeconomics (4)
- Finc 450 International Finance (4)
- Finc 352 Life & Health Insurance (4)
or Finc 354 Real Estate Investment (4)
- Finc 441 Advanced Corporate Finance (4)
- Finc 442 Finance Seminar (4)
- Finc 456 Principles of Investment (4)
- Finc 457 Portfolio Analysis (4)

Financial Services (32 credits)

- Econ 320 Money and Banking (4)
- Acct 441 Personal Income Tax (4)
or Finc 321 Banking Policy (4)
or Finc 441 Advanced Corporate Finance (4)
- Finc 351 Risk Management (4)
- Finc 352 Life & Health Insurance (4)
- Finc 353 Financial Planning (seminar) (4)
- Finc 354 Real Estate Investment (4)
- Finc 456 Principles of Investment (4)
- Finc 469 Internship (4)
or Finc 441 Advanced Corporate Finance (4)
or Finc 321 Banking Policy (4)

Corporate Finance is an area of concentration which prepares students for work within the corporation, involving the decisions about raising, investing and managing funds.

Investment as an area of concentration provides a more directed program to prepare students for careers in brokerage and investment analysis.

Financial Services as an area of concentration is in recognition of growth in the service economy in the United States. In addition, some states now require college courses for licensing in real estate and that trend is expected to continue.

Internships

Although internships (Finc 469) may be taken for 3-12 credits, a maximum of 4 credits of internship may be counted as Finance Electives. Additional internship credits are counted as Free Electives.

Major in Hotel-Motel-Restaurant Management B.S. Degree

HMR Professional Requirements (25 credits)

- HMR 300 Introduction to Food Service (2)
- HMR 349 Food Service Laboratory (2)
- HMR 350 HMR Maintenance Management (4)
- HMR 352 Front Office Management (4)
- HMR 355 Innkeeper's Liability (4)
- HMR 442 HMR Organization & Management (4)
- HMR 446 Hospitality Marketing & Sales Promotion (4)
- HMR 466 Current Trends in HMR Management (1-4)

HMR Electives (16 credits minimum)

- HMR Practicum Required (4)***
 - HMR 443 Beverage Management (4)
 - HMR 456 Convention and Sales (4)
 - HMR 460 Innkeepers Design & Aesthetics (4)
 - HMR 498 Problems in HMR (1-4)
- (Practicum credits over 4 count as free electives)

Tri-College

- Institutional Housekeeping I
 - Textile for Interiors
 - Food Selection and Preparation
 - Quantity Food Production
 - Institutional Purchasing
 - Nutrition for Fitness
 - Introduction to HMR Management
 - Tourism & Resort Industry
 - Food Handling Practices
 - Institutional Environmental Services II
- ***Required Elective: Practicum— Available Summer
- HMR 310 Food Administration Practicum (2-4)
 - HMR 312 Beverage Administration Practicum (2-4)
 - HMR 314 Motel Administration Practicum (2-4)
 - HMR 316 Motel Administration Practicum (2-4)

Practicum

Although practicum may be taken for 2-16 credits, a maximum of 4 credits may be counted as HMR Electives. Additional practicum credits are counted as free electives.

Major in International Business B.S. Degree

Foreign Language (12-24 credits)

Language requirements: Two or more years of secondary level language study may count for one year of college level language. Those with less than two years of language study will be required to take two years of foreign language.

International Business Requirements (20 credits)

- Acct 420 International Accounting (4)
- Econ 425 International Trade (4)
- Finc 450 International Finance (4)
- Mgmt 458 International Management (4)
- Mktg 444 Transnational Marketing (4)

Business Electives (12 credits)

Select three courses from the following. Four credits of internship may be applied to the twelve required business elective credits.

Finance

- Finc 440 Intermediate Finance (4)
- Finc 456 Principles of Investment (4)
- Finc 458 Financial Decision-making (4)
- Finc 321 Banking Policy (4)
- Finc 351 Risk Management (4)
- Finc 354 Real Estate Investment (4)

Marketing

- Mktg 320 Introduction to Marketing Logistics (4)
- Mktg 421 Consumer Behavior (4)
- Mktg 422 Marketing Research (4)
- Mktg 423 Marketing Communications (4)
- Mktg 455 Marketing Management (4)

Management

- Mgmt 420 Organizational Theory (4)
- Mgmt 421 Decision Analysis (4)
- Mgmt 424 Management Science I (4)
- Mgmt 440 Personnel Management (4)
- Mgmt 451 Organizational Behavior (4)

Related International Electives (8 credits)

- Select two courses from the following:
- Econ 304 Intermediate Macroeconomic Theory (4)
 - Econ 330 Economic Development (4)
 - Econ 340 Comparative Economic Systems (4)
 - Pol 160 International Relations (4)
 - Pol 290 Introductory Seminar in Political Science (4)
 - Pol 360 American Foreign Policy (4)
 - Pol 361 Topics in International Law (4)
 - Hist 357 U.S. Foreign Relations I (4)
 - Hist 358 U.S. Foreign Relations II (4)
 - Soc 215 Population (3)
 - Soc 323 Sociology of Community (3-4)
 - Anth 110 Intro to Cultural Anthropology and Linguistics (4)
 - Anth 335 Humans, Culture and Environment (4)
 - Anth 360 Economic Anthropology (4)
 - Anth 375 Language in Culture (4)
 - Geog 110 Introductory Physical Geography (4)
 - Geog 111 World Regional Geography (4)

Major in Management B.S. Degree

Management Requirements (20 credits)

- Mgmt 420 Organizational Theory (4)
- Mgmt 421 Decision Analysis or Mgmt 424 Management Science I (4)
- Mgmt 451 Organizational Behavior (4)
- Mgmt 458 International Management (4)
- Mgmt 480 Senior Management (4)

Management Electives (12 credits)

- Mgmt 315 Government & Business (4)
- Mgmt 405 Small Business Management (4)
- Mgmt 406 Small Business Management Consulting (2)
- Mgmt 415 Industrial Organization & Public Policy (4)
- Mgmt 416 Labor Economics (4)
- Mgmt 421 Decision Analysis (4)
- Mgmt 424 Management Science I (4)
- Mgmt 425 Management Science II (4)
- Mgmt 430 Managerial Economics (4)
- Mgmt 440 Personnel Management (4)
- Mgmt 452 Organizational Development (4)
- Mgmt 461 Management Seminar (4)
- Mgmt 469 Management Internship (maximum 4)
- Mgmt 498 Problems in Business Administration (1-4)
- Econ 302 Intermediate Microeconomics (4)
- Econ 304 Intermediate Macroeconomics (4)
- Econ 316 Labor History (4)

Electives may include up to 8 credits of upper-level courses from disciplines other than Accounting, Management, Marketing, Finance or Economics. The student must obtain written approval of the course from his or her academic advisor before taking the course as an elective.

Internships

Although Internship (Mgmt 469) may be taken for 3-12 credits, a maximum of 4 credits of internship may be counted as Management Electives. Additional internship credits are counted as Free Electives.

Major in Marketing B.S. Degree

Marketing Requirements (20 credits)

- Mktg 320 Introduction to Marketing Logistics (4)
- Mktg 421 Consumer Behavior (4)
- Mktg 422 Marketing Research (4)
- Mktg 441 Business & Society (4)
- Mktg 455 Marketing Management (4)

Marketing Electives (12 credits)

- Mktg 315 Industrial Marketing (4)
- Mktg 330 Personal Selling (4)
- Mktg 335 Retail Management (4)
- Mktg 406 Small Business Management Consulting (2)
- Mktg 410 Marketing Logistics (4)
- Mktg 423 Marketing Communications (4)
- Mktg 442 Marketing Seminar (4)

- Mktg 444 Transnational Marketing (4)
- Mktg 469 Marketing Internship (maximum 4)
- Mktg 470 Independent Study (1-4)
- Mktg 498 Problems in Marketing (1-4)
- Mgmt 405 Small Business Management (4)
- Mgmt 424 Management Science I (4)
- Econ 302 Intermediate Microeconomics (4)

Electives may include up to 8 credits of upper-level courses from disciplines other than Accounting, Marketing, Management, Finance and Economics. The student must obtain written approval of the course from his or her academic advisor before taking the course as an elective.

Internships

Although Internship (Mktg 469) may be taken for 3-12 credits, a maximum of 4 credits of internship may be applied to marketing electives. Additional internship credits are counted as free electives.

Minor Programs

Marketing Minor for Business Administration, Management, Finance, Hotel-Motel-Restaurant Management, International Business, Accounting and Business Education majors.

24 credits of marketing courses above the marketing requirements in each of the majors. Marketing courses which satisfy major requirements cannot be used to satisfy Marketing minor requirements.

Marketing Minor for other majors

- Acct 229 Principles I: Financial (4)
- Acct 230 Principles II: Financial (4)
- Econ 202 Principles I: Microeconomics (4)
- Econ 204 Principles II: Macroeconomics (4)
- Mktg 310 Principles of Marketing (4)
- Mktg 320 Introduction to Logistics (4)
- *Mktg 421 Consumer Behavior (4)
- Mktg 441 Business & Society (4)
- Mktg 455 Marketing Management (4)
- Mktg elective (4)
- * Prerequisite is either Psy 113 or Soc 110; and either Psy 119 or Soc 205

Management Minor for Business Administration, Marketing, Finance, Hotel-Motel-Restaurant Management, International Business, Accounting and Business Education majors.

24 credits of management courses above the management requirement in each of the majors. Management courses which satisfy major requirements cannot be used to satisfy Management minor requirements.

Management Minor for other majors

Acct 229 Principles I: Financial (4)
 Acct 230 Principles II: Financial (4)
 Econ 202 Principles I: Microeconomics (4)
 Math 274 Introduction to Statistics I (4)
 Math 275 Introduction to Statistics II (4)
 Mgmt 360 Principles of Management (4)
 *Mgmt 420 Organizational Theory (4)
 Mgmt 450 Production/Operations Management (4)
 *Mgmt 451 Organizational Behavior (4)
 Mgmt elective (4)
 * Prerequisite is either Psy 113 or Soc 110;
 and either Soc 119 or Soc 205

Finance Minor for Business Administration, Marketing, Management, Hotel-Motel-Restaurant Management, International Business, Accounting and Business Education majors .

24 credits of finance courses above the finance requirements in each of the majors. Finance courses which satisfy major requirements cannot be used to satisfy Finance minor requirements.

Finance Minor for other majors

Acct 229 Principles I: Financial (4)
 Acct 230 Principles II: Financial (4)
 Econ 202 Principles I: Microeconomics (4)
 Econ 204 Principles II: Macroeconomics (4)
 Finc 320 Money and Banking (4)
 Finc 340 Corporate Finance (4)
 Finc 440 Intermediate Finance
 or Finc 441 Advanced Corporate Finance (4)
 Finc 456 Principles of Investment (4)
 Finance Elective (4)
 Finance Elective (4)

Business Administration Minor for Marketing, Finance, Hotel-Motel-Restaurant Management, International Business, Accounting, Management and Business Education majors.

8 credits in each of three of the following areas: Management, Marketing, Finance, Economics, Accounting beyond those courses required for the major. If the major is Management, for example, the three areas must be from Marketing, Finance, Accounting or Economics.

Business Administration Minor for other majors

Acct 229 Principles I: Financial (4)
 Acct 230 Principles II: Financial (4)
 Econ 202 Principles I: Microeconomics (4)
 Econ 204 Principles II: Macroeconomics (4)
 Mktg 310 Principles of Marketing (4)
 Mgmt 360 Principles of Management (4)
 Finc 340 Corporate Finance (4)

Choose one course from each of the following areas:

Mktg 320 Intro to Logistics (4)
 *Mktg 421 Consumer Behavior (4)
 Mktg 441 Business & Society (4)
 Mktg 455 Marketing Management (4)

*Mgmt 420 Organizational Theory (4)
 Mgmt 450 Production/Operations Management (4)
 *Mgmt 451 Organizational Behavior (4)

Finc 320 Money and Banking (4)
 Finc 440 Intermediate Finance
 or Finc 441 Advanced Corporate Finance (4)
 Finc 456 Principles of Investments (4)
 * Prerequisite is either Psy 113 or Soc 110;
 and either Soc 119 or Soc 205

Hotel-Motel-Restaurant Management Minor for Marketing, Finance, International Business, Business Administration, Accounting, Management and Business Education majors.

24 credits of Hotel-Motel-Restaurant Management courses.

Hotel-Motel-Restaurant Management Minor for other majors

Acct 229 Principles I: Financial (4)
 Acct 230 Principles II: Financial (4)
 Econ 202 Principles I: Microeconomics (4)
 HMR 350 HMR Maintenance Management (4)
 HMR 352 Front Office Management (4)
 HMR 442 HMR Organization and Mgmt (4)
 HMR 443 Food and Beverage Management (4)
 HMR 446 Hospitality Mktg. and Sales Promotion (4)
 HMR 460 Hotel-Motel-Restaurant Design and Aesthetics (4) or HMR elective (4)
 HMR practicum (4)
HMR minor requires completion of Math 121 or equivalent

**Business Education Department
Bridges 160, (218) 236-2592**

Chair: Fran Dexter
Faculty: Ruth Rice

BUSINESS EDUCATION CURRICULA

The Business Education Department offers a teaching major in Business Education, a Bachelor of Science degree in Office Administration, a teaching minor in Business Education, and an Associate of Science degree in Secretarial Science.

Business Division Upper-Level Course Admission Policy:

All students with fewer than 90 credits who intend to major in a business field (Accounting, Business Administration, Business Education, Finance, Hotel-Motel-Restaurant Management, International Business, Management and Marketing) will be designated as pre-business. Pre-business majors must complete the following courses before application to a specific business program:

Accounting* 200, 229, 230, 231
Economics* 202, 204, 206
English 101, 102, 103
Mathematics 273, 274, 275

* All accounting and economics courses listed above must be completed with a grade of C or higher.

Additionally, all students must have a minimum 2.5 GPA for admission to a specific business program. Effective dates of this Admission Policy are as follows:

June 1, 1991 Incoming Freshmen

June 1, 1992 Incoming Transfers

All pre-business students who have completed and/or enrolled for at least 90 credits, have completed and/or enrolled in the required courses, and have the required GPA are eligible to apply for admission to a business field (Accounting, Business Administration, Business Education, Finance, Hotel-Motel-Restaurant Management, International Business, Management or Marketing). Applications will be accepted after the second and before the sixth week of the quarter in which the student has enrolled for the 90th credit. Application forms are available in Bridges 260.

All business majors who fail to meet any of the above requirements in all subsequent quarters will be subject to a one-quarter departmental probationary period. If requirements are not met at the end of the probationary period, the student will not be allowed to register for upper-division courses.

Students who wish to minor in business programs (either the minor for business majors or the minor for non-business majors) will be required to complete an application prior to declaration of the minor. Students who wish to declare a minor must have accumulated 90 credits, completed appropriate prerequisites, and have a 2.5 GPA prior to admission to a business minor program.

An interdepartmental committee will meet regularly to consider appeals to any requirements or procedures.

FOUR YEAR PROGRAMS

Major in Business Education B.S. Degree

*Core requirements in Business (42 credits)***

Acct 229 Prin I: Finc (4)
Acct 230 Prin II: Finc (4)
Acct 231 Managerial Acct (4)
Acct 200 Intro to Legal Sys (2)
Acct 300 Legal Envir of Bus (4)
CIS 145 Bus Data Proc (4)
or Mgmt 456 Mgmt Info Sys (4)
Econ 206 International Econ* (4)
Finc 340 Corporate Finance (4)
Mgmt 360 Principles of Management (4)
Mgmt 450 Production/Operations Mgmt (4)
Mktg 310 Principles of Marketing (4)

*Major Requirements in Business Education (31-33 credits)***

BEd 207 Business Communications (4)
BEd 212 Adv Keyboarding/WP (2)
BEd 260 Microcomp Bus App (3)
BEd 315 Consumer Education (4)
BEd 320 Records Management (4)
BEd 330 Office Management (4)
BEd 414 Adv Word Proc/Trans (3)
BEd 420 Int Micro Bus App (3)
BEd 439 Methods Kbd/WP/Proc (2)
BEd 440 Methods Acct/Comp App (2)
BEd 441 Methods Shorthand (Op) (2)

Requirements in Related Fields (12 credits)

Econ 202 Micro Econ* (4)
Econ 204 Macro Econ* (4)
Spch 100 Beg Speech Comm* (4)

* Starred items may be used for Liberal Arts.

** Many courses require prerequisites.

All Teacher Education Requirements must be fulfilled to complete this major. See Education Department.

Major in Office Administration B.S. Degree

*Core Requirements in Business (46 credits)***

Acct 229 Prin I: Finc (4)
Acct 230 Prin II: Finc (4)
Acct 231 Managerial Acct (4)
Acct 200 Intro to Legal Sys (2)
Acct 300 Legal Envir of Bus (4)
CIS 145 Bus Data Proc (4)
or Mgmt 456 Mgmt Info Sys (4)
Econ 206 International Econ* (4)
Finc 340 Corporate Finance (4)
Mgmt 360 Principles of Management (4)
Mgmt 450 Production/Operations Mgmt (4)
Mktg 310 Principles of Marketing (4)
Mgmt 490 Business Policy (4)

Additional Major Requirements (20 credits)

- BEd 207 Business Communications (4)
- BEd 212 Adv Keyboarding/WP (2)
- BEd 260 Microcomp Bus App (3)
- BEd 315 Consumer Education (4)
- BEd 320 Records Management (4)
- BEd 420 Int Micro Bus App (3)

Areas of Specialization (Either Area I or II is required.)

I. Executive Secretarial (17-18 credits)

- BEd 220 Shorthand I (4)
- BEd 221 Shorthand II (4)
- BEd 222 Shorthand III (4)
- or BEd 324 Dictation & Transcription (3)
- BEd 323 Secretarial Administration (3)
- BEd 414 Adv Word Proc/Trans (3)

II. Office Management (20 credits)

- BEd 330 Office Management (4)
- Mgmt 440 Personnel Management (4)
- Mgmt 451 Organizational Behavior (4)
- Math 274 Introduction to Statistics I (4)
- MC 270 Public Rel Princ (4)

Requirements in Related Fields (16 credits)

- Econ 202 Micro Econ* (4)
- Econ 204 Macro Econ* (4)
- Psy 113 General Psychology* (4)
- Spch 100 Beg Speech Comm* (4)

* Starred items meet Liberal Arts requirements.

** Many courses require prerequisites.

Minor in Business Education (38 credits)

- Acct 229 Prin I: Finc (4)
- Acct 230 Prin II: Finc (4)
- Acct 231 Managerial Accounting (4)
- Acct 200 Intro to Legal Sys (2)
- Acct 300 Legal Envir of Bus (4)
- BEd 207 Business Communications (4)
- BEd 212 Adv Keyboarding/WP (2)
- BEd 260 Microcomp Bus App (3)
- BEd 315 Consumer Education (4)
- BEd 414 Adv Word Proc/Trans (3)
- BEd 439 Methods Kbd/WP/Proc (2)
- BEd 440 Methods Acct/Comp App (2)

This minor can be awarded only in combination with at least one teaching major. This minor is not licensable in Minnesota.

TWO YEAR PROGRAMS

Medical Records Technology A.S. Degree

The Associate in Science in medical records is a program offered cooperatively by the Moorhead Technical College and Moorhead State University. Students enroll simultaneously at both institutions, doing half of their work at

each. Upon graduation from the two-year program, students receive an A.S. degree from MSU, a diploma from MTC, and are authorized to take the national accreditation examination to become accredited medical records technologists.

At MSU, medical records students complete 48 college credits, including 45 credits in liberal arts with at least 4 credits in each division. At least two courses in anatomy and physiology are required; these may be applied to Liberal Arts Division B.

At MTC, students will complete the technical curriculum in medical records. New students seeking admission to this degree program should first contact the Office of Admission, Moorhead Technical College, Moorhead, Minnesota, 56560; if already enrolled at MSU, students should get further information from Dr. Molly Moore, Department of Business Administration.

Secretarial Science A.S. Degree (96 credits)

Liberal Arts (45 credits)
Freshman English—one year
Other Liberal Arts Courses, including a minimum of 6 credits each in areas B, C, D & E.

BUSINESS EDUCATION COURSES

BEd 090 Beginning Keyboarding (2) (Fws)

Audit course for students without typewriting experience and for students who wish to renew these skills. Credit not applicable to degree.

BEd 115 Introduction to Word Processing (2) (fws)

Principles and applications of word processing on the microcomputer. Emphasis will be on personal and professional applications. Hands-on experience with word processing programs. Prerequisite: One semester of high school keyboarding or knowledge of alphabetic and numeric keyboard. Not designed for majors.

BEd 207 Business Communications and Report Writing (4) (FWS)

Business letters; memos and reports; review of English grammar; introduction to dictation; resume writing.

BEd 211 Intermediate Keyboarding/Formatting (2) (Fws)

Typing business papers; tabulation problems; manuscripts.

BEd 212 Advanced Keyboarding/Word Processing (2) (Fws)

Speed and production skills; statistical typewriting, special reports, and business papers. Prerequisite: BEd 211.

BEd 220-221-222 Shorthand I-II-III (4 each) (FWS)

Gregg shorthand, dictation and transcription. Keyboarding must either precede or accompany all shorthand courses. Prerequisite: BEd 211 or equivalent. Must be taken in sequence. Offered every other year.

BEd 241 Introduction to Lotus (2) (FWS)

Introduction to the basics of Lotus 1-2-3, including the creation of graphics, the integration of macros, and the use of database with emphasis given to business applications. Prerequisite: BEd 090 or consent of instructor.

BEd 242-243-244 Work Experience I-II-III (1 credit each, maximum 3) (FWS)

Supervised office experience in a cooperating firm. Minimum of 60 hours of satisfactory work in each course. For majors only.

BEd 260 Microcomputer Business Applications (3) (FWS)

Experience in using the microcomputer in a variety of business data processing applications. Prerequisite: One semester of high school keyboarding or equivalent, Acct 230.

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 323 Secretarial Administration (3) (W)

Secretarial and office administration procedures.

BEd 324 Dictation and Transcription (3)

Emphasis on speed dictation and transcription of Gregg Shorthand. Prerequisite: BEd 221 or consent of instructor.

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. Prerequisite: BEd 212 or consent of instructor.

BEd 414(g) Advanced Word Processing/Transcription (3) (FWS)

Practical experience in word processing and machine transcription using word processing programs on a microcomputer.

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

Course designed to meet requirements for business simulation occupations teacher.

BEd 420(g) Integrated Microcomputer Business Applications (3) (FWS)

Integrated business applications using the Apple Macintosh and/or IBM microcomputers. Intermediate and advanced database and spreadsheet techniques will be incorporated. Prerequisite: BEd 260.

BEd 439 Methods of Teaching Keyboarding/Word Processing/Procedures (2) (S)

Prerequisite: BEd 212. Teaching methods course for education majors only.

BEd 440 Methods of Teaching Accounting/Computer Applications (2) (S)

Prerequisite: Acct 231. Teaching methods course for education majors only.

BEd 441 Methods of Teaching Shorthand (2) (S)

Prerequisite: BEd 222, or consent of instructor. Teaching methods course for education majors only.

BEd 442 Methods of Teaching Basic Business and Economics (2)

Teaching methods course for education majors only.

BEd 443(g) Related Curricular Development and Cooperative Management (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 469 Internship (4-16) (FWS)

Enables students with necessary academic credentials to receive experience in business environment. Prerequisite: Consent of instructor.

BEd 470 Independent Study (1-4) (FWS)

An opportunity for extensive study in a subject area beyond the formal class offering. Prerequisite: Consent of instructor.

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

Examination of philosophical, social, and economic forces that create the need for and the purposes of vocational education.

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)

Purposes of Business Education, changing occupational requirements, results of current 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)

Registration only after consultation with major advisor.

BEd 597 Individual Study (1-3)

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

BEd 599 Thesis in Business Education (1-6)

Registration only after consultation with major advisor.

Chemistry Department Hagen 411, (218) 236-2136

Chair: Dennis R. Mathiason

Faculty: Shawn Dunkirk, Gary Edverson, Nicholas Kowanko, B. Spencer Meeks (Emeritus), Abbas Pezeshk, Kathy Rowberg, William B. Treumann (Emeritus)

CHEMISTRY CURRICULA

The Department of Chemistry at Moorhead State University is on the Approved List of the American Chemical Society.

Four undergraduate majors are offered by the department. For the student who desires a career as a professional chemist there are both the conventional major and the industrial chemistry major. Each leads to a B.S. degree designed to meet the standards set by the Committee on Professional Training for the American Chemical Society. The conventional major is for the student who intends to enter graduate school in chemistry, or seek a professional career based on an undergraduate degree. The industrial chemistry major is designed for the student wishing industrial employment as a chemist at the B.S. level.

A more flexible liberal arts major in chemistry leads to a B.A. degree and is designed for a wide variety of students in preprofessional programs in medicine, dentistry, etc., as well as those seeking employment in chemistry-related fields. Finally, a secondary teaching major in physical science leading to a B.S. degree is available. This major may be completed by choice of either a chemistry major with a physics minor or a physics major with a chemistry minor. See physics department listing for the physics major option. Undergraduate research, with or without registration in Chem 490, is strongly encouraged for all students studying chemistry.

Professional Major in Chemistry B.S. Degree

The B.S. in Chemistry program provides a strong background for students intending to enter graduate school or seek employment as professional chemists. The degree meets the requirements of the Committee on Professional Training of the American Chemical Society. *Major Requirements in Chemistry (68 credits)*

Chem 111-112-113

General Chemistry I-II-III (12)

Chem 111L-112L-113L

General Chemistry Laboratory I-II-III

or 111H-112H-113L (3)

Chem 231-232-233 Organic Chemistry I-II-III (9)

Chem 234-235-236 Organic Chemistry Laboratory I-II-III (6)

Chem 305 Chemical Literature (1)

Chem 321 Quantitative Analysis (4)

Chem 341-342-343 Physical Chemistry I-II-III (9)

Chem 345-346 Physical Chemistry Laboratory I-II (4)

Chem 421-422 Instrumental Analysis I-II (7)

Chem 452-453 Inorganic Chemistry (6)

Chem 455 Inorganic Chemistry Laboratory (1)

Approved Electives in Chemistry (6)

Requirements in Related Fields (47 credits)

Phys 200-201-202 General Physics I-II-III (15)

Math 231-234 Calculus I-IV (16)

either

Math 331 Differential Equations (4)

or

Math 375 Intern Probability and Statistics I (4)

either

Ger 101-102-103 Beginning German I-II-III (12)

or one year of approved Computer Science courses.

Major in Industrial Chemistry B.S. Degree

This major has three special components: (1) courses in chemistry and some related fields needed to support chemistry; (2) an optional, but normally expected, cooperative education experience consisting of a total of nine months carefully structured employment experience in industry; and (3) a minor or approved coherent group of elective courses (not less than 16 credits) in an area complementary to industrial chemistry, such as business, economics, computer science, electronics, mathematics.

Major Requirements in Chemistry (61 credits)
Chem 111-112-113 General Chemistry I-II-III (12)
Chem 111L-112L-113L General Chemistry Laboratory I-II-III or 111H-112H-113L (3)
Chem 231-232-233 Organic Chemistry I-II-III (9)
Chem 234-235-236 Organic Chemistry Laboratory I-II-III (6)
Chem 305 Chemical Literature (1)
Chem 321 Quantitative Analysis (4)
Chem 341-342 Physical Chemistry I-II (6)
Chem 345 Physical Chemistry Laboratory I (2)
Chem 401-402-403 Applied Chemistry Laboratory I-II-III (4)
Chem 410 Industrial Chemistry (4)
Chem 421-422 Instrumental Analysis I-II (7)
Chem 452 Inorganic Chemistry I (3)

Requirements in Related Fields (39 credits)
Math 231-232-233 Calculus I-II-III (12)
Phys 200-201-202 General Physics I-II-III (15)
Econ 202 Principles of Economics I Micro (4)
ComS 140 Fortran Fundamentals (or suitable substitute) (4)
Engl 287 Technical Report Writing (4)
Approved Individual Course Electives (16 credits)
(Normally met by Chem 491 Cooperative Education)

Optional Block of Courses (20 or more credits)

Liberal Arts Major in Chemistry B.A. Degree

The B.A. curriculum in chemistry is a flexible liberal arts program suitable to a wide variety of students including those in premedicine, predentistry and other preparatory programs in the science professions.

Major Requirements in Chemistry (54-56 credits)
Chem 111-112-113 General Chemistry I-II-III (12)
Chem 111L-112L-113L General Chemistry Laboratory I-II-III or 111H-112H-113L (3)

either

Chem 231-232-233 Organic Chemistry I-II-III (9)
and Chem 234-235-236 Organic Chemistry Lab I-II-III (6)
or
Chem 237-238-239 General Organic Chemistry I-II-III (9), Chem 237L-238L-239L General Organic Chem Lab I-II-III (3), Chem 422 Instrumental Analysis II (4)
Chem 321 Quantitative Analysis (4)
Chem 341-342 Physical Chemistry I-II (6)
Chem 345-346 Physical Chemistry Laboratory I-II (4)
Chem 452 Inorganic Chemistry I (3)

either

Chem 361 Introduction to Biochemistry (4)
and Chem 421 Instrumental Analysis I (3)
or
Chem 461-462 General Biochemistry I-II (6)
and Chem 464-465 General Biochemistry Laboratory I-II (2),

Requirements in Related Fields (28-31 credits)
Math 231-232 Calculus I-II (8)

either

Phys 111-112-113 Elementary Physics I-II-III (9)
and Phys 111L-112L-113L Elementary Physics Laboratory I-II-III (3)
or
Phys 200-201-202 General Physics I-II-III (15)
Approved Electives in Science (8)

Physical Science Teaching Major B.S. Degree

This program requires a chemistry major with a physics minor or a physics major with a chemistry minor. It meets the Minnesota requirements for licensure in physical science, grades 7-12, and should be chosen by students who expect to teach chemistry, physics or physical science.

Chemistry Major Requirements (51-53)
Chem 111-112-113 General Chemistry I-II-III (12)
Chem 111L-112L-113L General Chemistry Laboratory I-II-III or 111H-112H-113L (3)

either

Chem 231-232-233 Organic Chemistry I-II-III (9)
and Chem 234-235 Organic Chemistry Lab I-II (4)
or
Chem 237-238-239 General Organic Chemistry I-II-III (9), Chem 237L-238L General Organic Chem Lab I-II (2)
Chem 321 Quantitative Analysis (4)
Chem 341-342-343 Physical Chemistry I-II-III (9)
Chem 345 Physical Chemistry Laboratory I (2)
Chem 440 Secondary Science Teaching Methods (4)
Chem 452-453 Inorganic Chemistry I-II (6)

Requirements in Related Fields (19-20)
Math 231-232-233 Calculus I-II-III (12)
Biol 111 Cell Biology (4)
An Approved Course in Computer Science (3-4)

A teaching minor in physics is also required. All teacher education requirements shall be fulfilled to complete this major.

Chemistry Minor Teaching (30 credits)
Chem 111-112-113 General Chemistry I-II-III (12)
Chem 111L-112L-113L or General Chemistry Laboratory 111H-112H-113L (3)
Chem 321 Quantitative Analysis (4)
Electives in Chemistry (11)
(Must include two quarters of organic chemistry lecture and laboratory or two quarters of physical chemistry lecture.)

This minor satisfies the requirements for the Physical Science Teaching degree if the physics major option is selected. All teacher education requirements shall be fulfilled to complete this minor.

Minor in Chemistry (34 credits)

Chem 111-112-113 General Chemistry I-II-III (12)
Chem 111L-112L-113L General Chemistry Laboratory I-II-III or 111H-112H-113L (3)
Electives in Chemistry (19)
(Must include two quarters of organic chemistry lecture and laboratory or two quarters of physical chemistry lecture.)

CHEMISTRY COURSES

Chem 090 Science Learning Clinic (1)

The course will consider techniques for helping students overcome science anxiety and help in the development of better science study skills. Credit not applicable toward degree.

Chem 102 Survey of Basic Principles of Chemistry (4) (FWS)

Fundamentals of chemistry and applications in modern society. Suitable for those who have had no high school chemistry. Credit not applicable to a chemistry major or minor.

Chem 103 Topics in Introductory Chemistry (2-4)

Study of some elementary aspects of chemistry and chemical concepts as applied to topical interest. Designed for the non-science major. Prerequisite: Chem 102 or high school chemistry or instructor's approval. Credit not applicable to a chemistry major or minor.

Chem 104 Environmental Chemistry (4) (S)

Chemical processes in the environment. Prerequisite: High school chemistry or Chem 102 or instructor's approval.

Chem 106-107-108 Chemistry for Health Professions I-II-III (5 each—4 lecture, 1 laboratory) (FWS)

Preparation for nursing, physical therapy, home economics and vocational-technical programs in medicine and dentistry; also appropriate for liberal arts credit. Not applicable to a chemistry major or minor. Chem 106: Introduction to basic chemical principles. Chem 107: Introduction to aliphatic and aromatic compounds and behavior of functional groups. Prerequisite: Chem 106 or Chem 112. Chem 108: Introduction to structure and metabolism of carbohydrates, lipids and proteins. Prerequisite: Chem 107.

Chem 110 Basic Introductory Chemistry (5) (F)

Fundamental principles of chemistry and stoichiometric relationships emphasizing problem solving using the unit-cancellation method. Intended for students under-prepared for enrollment in Chem 111. Prerequisite: Consent of instructor. May not be taken for credit by those who have earned a C or better in Chem 111. Credit not applicable to a chemistry major or minor.

Chem 111-112-113 General Chemistry I-II-III (4 each) (FWS)

Fundamental principles of chemistry. Concurrent registration in Chem 111L-112L-113L or 111H-112H-113L required. High school algebra or Math 121 recommended. Each quarter is the prerequisite for following quarters.

Chem 111L-112L-113L General Chemistry Laboratory I-II-III (1 each) (FWS)

Laboratory techniques of general chemistry including qualitative and quantitative analysis. Must be taken concurrently with Chem 111-112-113. Honors laboratory program offered as 111H-112H for which instructor's approval is required.

Chem 202 Scientific Glass Fabrication (2) (W)

Techniques of construction of specialized glass apparatus. Prerequisite: Instructor's approval.

Chem 231-232-233 Organic Chemistry I-II-III (3 each) (FWS)

Fundamentals of organic chemistry: sequence intended for chemistry majors and recommended for prepharmacy majors. Prerequisite: Chem 113 or instructor's approval.

Chem 234-235-236 Organic Chemistry Laboratory I-II-III (2 each) (FWS)

Techniques of organic chemistry. Intended for chemistry majors. Prerequisite: Chem 231-232-233 or concurrent registration.

Chem 237-238-239 General Organic Chemistry I-II-III (3 each) (FWS)

Fundamentals of organic chemistry: sequence intended primarily for students in the bio-medical area. Prerequisite: Chem 113 or instructor's approval.

Chem 237L-238L-239L General Organic Chemistry Laboratory I-II-III (1 each) (FWS)

Techniques of organic chemistry: sequence intended primarily for students in the bio-medical area. Prerequisite: Chem 237-238-239 or concurrent registration.

Chem 305(g) Chemical Literature (1) (W)

Introduction to the chemical literature in journals, handbooks, abstracts, monographs, patents and other sources. Computer searches.

Chem 314 Aquatic Chemistry (3) (S)

The fundamentals of solution equilibria as applicable to natural water systems. Prerequisite: Chem 113 and instructor's approval.

Chem 321 Quantitative Analysis (4)-2 lecture, 2 laboratory (Fs)

The theoretical principles and laboratory techniques involved in modern quantitative analysis. Prerequisite: Chem 113.

Chem 341-342-343 Physical Chemistry I-II-III (3 each) (FWS)

A survey of applications of physics to chemical phenomena including thermodynamics, kinetics, electrochemistry and introductory quantum theory. Prerequisite: Chem 113, Math 232, Phys 202 or instructor's approval. Math 234 needed for Chem 343.

Chem 345 Physical Chemistry Laboratory I (1 lecture, laboratory) (2) (W)

Experimental physical chemistry. Prerequisite: Chem 321 and Chem 342 or concurrent registration.

Chem 346 Physical Chemistry Laboratory II (2) (S) (2 laboratory)

Experimental physical chemistry. Prerequisite: Chem 321 and Chem 342 or current registration.

Chem 361(g) Introduction to Biochemistry (4) (S)

Natural product chemistry and metabolism. A brief survey. Not open for graduate credit to chemistry majors. Prerequisite: Biol 111 and Chem 232 or 238.

Chem 401-402-403 Applied Chemistry Laboratory I-II-III (2, 1, 1) (FWS)

An integrated laboratory with emphasis on team projects, polymer chemistry and the practical applications of instrumentation. Most experiments will be of the type that might be encountered in an industrial setting. Prerequisite: Chem 236, 345. Corequisites: Chem 421, 422.

Chem 410 Industrial Chemistry (3-4) (W)

Consideration of the structure of chemical industry and the factors which determine modern chemical practice. Representative industrial chemical processes are examined in detail. Prerequisite or corequisite: Chem 233 or 239.

Chem 421 Instrumental Analysis (3) 2 lecture, 1 laboratory (S)

The theory, principles and laboratory techniques of electro-analytical chemistry. Prerequisite: Chem 342, 346 and Chem 236 or instructor's approval.

Chem 422 Instrumental Analysis II (4) 3 lecture, 1 laboratory (W)

The theory, principles and laboratory techniques of ultra-violet and infra-red spectrophotometry, nuclear magnetic resonance, atomic absorption and mass spectrometry, instrumental design and operation emphasized. Prerequisite: Chem 342.

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

Selected topics such as spectroscopy, electrochemical methods, chemical separations and interfacing instruments with computers. Prerequisite: Chem 236 and instructor's approval. May be repeated when topic is changed.

Chem 432(g) Advanced Organic Chemistry (3) (S)

Consideration of organic reactions on the basis of reaction mechanisms. Prerequisite: Chem 233 or 239.

Chem 434 Advanced Organic Chemistry Laboratory (1-3) (Ws)

Specialized laboratory techniques: more difficult organic synthesis. Prerequisite: Chem 236 or instructor's approval. May be repeated to a maximum of 3 credits.

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

Selected topics such as biosynthesis of natural products, photochemistry, heterocyclic chemistry. Prerequisite: Chem 233 or 239 or instructor's approval. May be repeated when topic is changed.

Chem 440 Secondary Science Teaching Methods (4) (Ws)

Materials and methods appropriate for junior and senior high school classes and laboratories. Must be taken prior to student teaching. Prerequisite: Junior or senior standing in a science education program. (Same as Biol 440 or Phys 440)

Chem 444 Advanced Physical Chemistry Laboratory (1-3) (Ws)

Prerequisite: Chem 346 or instructor's approval. May be repeated to a maximum of 3 credits.

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

Selected topics such as kinetics, statistical thermodynamics or quantum chemistry. Prerequisite: Chem 343 or instructor's approval. May be repeated when topic is changed.

Chem 452 Inorganic Chemistry I (3) (F)

Aspects of bond theory, periodicity, acid-base chemistry, reaction kinetics and energetics and chemistry of non-transition elements. Prerequisite: Chem 342.

Chem 453 Inorganic Chemistry II (3) (W)

Transition metal chemistry, valence bond, molecular orbital, crystal field, and ligand field theory, molecular symmetry. Bio-inorganic models. Prerequisite: Chem 452.

Chem 455 Inorganic Chemistry Laboratory (1-3) (Fw)

A synthesis and spectroscopic study of inorganic compounds. Techniques include: vacuum line synthesis, high temperature methods, inert gas techniques and organometallic synthesis. Prerequisite: Chem 452 or concurrent registration. May be repeated to a maximum of 3 credits.

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

Selected topics: Coordination chemistry, bonding, acid-base and non-aqueous solvent theory, organometallic chemistry and inorganic biochemistry. Prerequisite: Instructor's approval. May be repeated when topic is changed.

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

A survey of the chemistry and metabolism of biological systems. Prerequisite: Chem 233 or Chem 239.

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

Representative experiments in the isolation, quantitation and metabolism of naturally occurring substances. Prerequisite: Chem 461-462-463 or concurrent registration.

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

Selected biochemical topics. Prerequisite: Chem 463 or instructor's approval. May be repeated when topic is changed.

Chem 469 Student Internship (3-16) (FWS)

Supervised work experience. For majors only. Prerequisite: Junior or senior standing and departmental approval.

Chem 480(g) Seminar (1) (S)

Prerequisite: Junior or senior standing or consent of instructor. May be repeated to a maximum of 3 credits.

Chem 490 Undergraduate Research (1-5) (FWS)

Research studies in all areas of chemistry. A research paper is required. Prerequisite: Instructor's approval. May be repeated to a maximum of 9 credits.

Chem 491 Cooperative Education in Chemistry (8, 6 and 4 for 3 periods of 10-12 weeks each) (Fws)

A planned and supervised full-time work experience in an industrial setting or government laboratory and which involves some alternation between work experience and academic training. May be repeated twice to a total of 18 credits. Prerequisite: Chem 233, 236 and consent of the department.

Classics

Director: Allan Hanna

See also Latin below.

Two years of college Latin are offered when feasible. The second year will be scheduled as a regular class only if the prospective enrollment justifies it; otherwise it may be elected solely on a tutorial basis, by arrangement with the instructor.

Besides work in the Latin language, courses in related subjects—especially art, archeology, Greek and Latin literature in translation, ancient history, and classical philosophy—are available to interested students. Upper-class courses in Latin, and courses in Greek as well, may be taken by Moorhead State University students at Concordia College and at North Dakota State University (Cardinal Muench Seminary) through the Tri-College University.

LATIN COURSES

See also Classics above.

Lat 101-102-103 Beginning Latin I-II-III (4 each) (FWS)

Latin grammar and syntax, with readings adapted from original texts and with some practice in elementary Latin composition.

Lat 201-202-203 Intermediate Latin I-II-III (4 each) (On demand)

Intensive review of Latin grammar and syntax; representative readings in the literature of the late Republic and the Empire, especially in those authors whose work exemplifies the characteristic forms and usage of the classical period: Cicero, Caesar, Vergil, Horace, Livy, and Ovid; occasional exercises in composition; some collateral reading in English on various aspects of Roman civilization. Prerequisite: Lat 101-102-103 or the equivalent.

**Computer Science and Information Systems Department
Flora Frick 253
(218) 236-2299/2322**

Chair: Omran Bukhres

Faculty: Abdel Fatah Bashir, Daniel L. Brekke, Curtis R. Bring, Rhonda Ficek, John Gaffrey, Kemal Koymen, Heeseck Lee, Benjamin M. Lin, Duncan Meier, Richard Walker

COMPUTER SCIENCE CURRICULA

The Department of Computer Science and Information Systems (CSIS) offers programs of study in two areas: Computer Science (ComS), and Computer Information Systems (CIS). Programs of study in Computer Science are intended for students planning to work in the high technology computer industry, pursue graduate work in computer science, or teach computer science at the elementary, secondary or post-secondary level. Programs of study in Computer Information Systems are intended for students planning to work in applied areas that heavily utilize computers as application tools. A 2.5 GPA in CSIS courses is required for continuing status as a CSIS major.

COMPUTER SCIENCE AND INFORMATION SYSTEMS CURRICULA

Major in Computer Science B.S. Degree (73 credits)

Required courses (51 credits)

ComS 201 Introduction to Computers and Programming I (4)
ComS 202 Introduction to Computers and Programming II (4)
ComS 204 Assembly-Language Programming (4)
ComS 305 Logical Design of Computers (4)
ComS 305L Logical Design Laboratory (1)
ComS 315 Data Structures (4)
ComS 380 Introduction to System Software (4)
ComS 410 Compiler Design I (4)
ComS 415 Operating Systems I (4)
ComS 416 Operating Systems I Lab (1)
ComS 420 Design and Implementation of High Level Languages (4)
ComS 425 Computer Architecture (4)
CIS 429 Introduction to Software Engineering (4)
CIS 461 Database Design and Implementation (4)
ComS 485 Senior Seminar (1)

Elective courses selected from the following (22 credits):

ComS 250 Numerical Methods (4)
ComS/CIS 260 Topics in Programming Languages (1-4)
ComS/CIS 270 Introduction to C/UNIX (4)
ComS/CIS 285 Computer Simulation Models (4)
ComS/CIS 300 Ethical and Social Concerns of Computer Science (3)
ComS 325 Microprocessors (4)
CIS 346 Structured System Analysis and Design (4)
ComS 370 Advanced Data Structures (4)
ComS 406 Computer Networks I (4)
ComS 411 Compiler Design II (4)
ComS 450 Numerical Analysis I (4)
ComS 451 Numerical Analysis II (4)
ComS 469 Internship (4-16)
ComS 470 Computer Graphics (4)
ComS 475 Introduction to Artificial Intelligence (4)
ComS 480 Topics in Computer Science/CIS (1-3) (repeatable up to 3 credits)
ComS 490 Independent Study (1-4) (repeatable up to 4 credits)

Requirements in Related Fields (53-56 credits)

Math 231-232-233 Calculus I-II-III (12)
Math 265 Discrete Structures (4)
Math 327 Introduction to Linear Algebra (4)
Math 375 Intermediate Probability and Statistics I (4)
One year of 200 level Physics (with labs) (15)
* An additional three courses in science and/or courses with a strong emphasis on quantitative methods (9-12)
Engl 287 Technical Report Writing (4)
Spch 100 Beginning Speech Communication (4) or
Spch 210 Effective Business Speaking (4)
* "Science" means: astronomy, biology, chemistry, engineering, geology/geography, industrial studies, math (300 level or above), and physics (200 level or above).
* "Quantitative" means: Acct 229, 230, 310, 330, 331, 332, 350, 351, 400
Mgmt 300, 310, 320, 340
Mgmt 421, 424, 425, 430
Phil 110, 240
Econ 202, 204, 206, 302, 304, 320

Recommended Liberal Arts Courses and Electives

Acct 229 Principles of Accounting I (4)
Acct 230 Principles of Accounting II (4)
Econ 202 Principles of Economics I (4)
Econ 204 Principles of Economics II (4)
Psy 113 General Psychology (4)
Psy 119 Social Behavior (4) or
Soc 110 Introduction to Sociology (4)
or Ed 213 Interpersonal Communication (3)
Phil 240 Symbolic Logic (4)
IndS 270 Electrical Circuits I (4)
IndS 271 Electrical Circuits II (4)
IndS 333 Introduction to Robotics (4)
Math 331 Differential Equations (4)

Major in Computer Science B.S. Degree (Teaching) (73 credits)*

Required courses (51 credits)

ComS 201 Introduction to Computers & Programming I (4)
ComS 202 Introduction to Computers & Programming II (4)
ComS 204 Assembly-Language Programming (4)
ComS 305 Logical Design of Computers (4)
ComS 305L Logical Design Laboratory (1)
ComS 315 Data Structures (4)
ComS 380 Introduction to System Software (4)
ComS 410 Compiler Design I (4)
ComS 415 Operating Systems I (4)
ComS 416 Operating Systems I Lab (1)
ComS 420 Design and Implementation of High Level Languages (4)
CIS 429 Introduction to Software Engineering (4)
ComS 430 Teaching Computer Science (4)
CIS 461 Database Design and Implementation (4)
ComS 485 Senior Seminar (1)

Elective courses selected from the following (22 credits):

ComS 130 BASIC Programming with Microcomputers (4)
ComS 250 Numerical Methods (4)
CIS 255 COBOL Programming (4)
CIS 256 Advanced COBOL and File Organization (4)
ComS/CIS 260 Topics in Programming Languages (1-4)
ComS/CIS 270 Introduction to C/UNIX (4)
ComS/CIS 285 Computer Simulation Models(4)
ComS 300 Ethical and Social Concerns of Computer Scientists (3)
ComS 325 Microprocessors (4)
CIS 346 Structured System Analysis and Design (4)
ComS 370 Advanced Data Structures (4)
ComS 406 Computer Networks I (4)
ComS 411 Compiler Design II (4)
ComS 425 Computer Architecture (4)
ComS 450 Numerical Analysis I (4)
ComS 451 Numerical Analysis II (4)
ComS 469 Internship (4-16)
ComS 470 Computer Graphics (4)
ComS 475 Introduction to Artificial Intelligence (4)
ComS 480 Topics in Computer Science/CIS (1-3)
ComS 490 Independent Study (1-4)

Requirements in Related Fields (53-56 credits)

Math 231-232-233 Calculus I-II-III (12)
Math 265 Discrete Structures (4)
Math 327 Introduction to Linear Algebra (4)
Math 375 Intermediate Probability and Statistics I (4)
One year of 200 level Physics w/labs (15)
An additional three courses in science and/or courses with a strong emphasis on quantitative methods (9-12)
Engl 287 Technical Report Writing (4)
Spch 100 Beginning Speech Communication (4) or
Spch 210 Effective Business Speaking (4)

Recommended Liberal Arts Courses and Electives

Acct 229 Principles of Accounting I (4)
Acct 230 Principles of Accounting II (4)
Econ 202 Principles of Economics I (4)
Econ 204 Principles of Economics II (4)
Psy 113 General Psychology (4)
Psy 119 Social Behavior (4)
or Soc 110 Introduction to Sociology (4)
or Ed 213 Interpersonal Communication (3)
Phil 240 Symbolic Logic (4)
IndS 270 Electrical Circuits I (4)
IndS 271 Electrical Circuits II (4)
IndS 333 Introduction to Robotics (4)
Math 331 Differential Equations (4)

* Note: Because certification requirements for teachers vary from state to state, students who plan to complete this program should check local requirements where they plan to teach. Minnesota does not currently certify teachers in the area of Computer Science.

Major in Computer Information Systems B.S. Degree (66 credits)

Required courses (54 credits)

CIS 145 Business Data Processing (4)
ComS 201 Introduction to Computers and Programming I (4)
ComS 202 Introduction to Computers and Programming II (4)
ComS 204 Assembly-Language Programming (4)
CIS 255 COBOL Programming (4)
CIS 256 Advanced COBOL and File Organization (4)
CIS 346 Structured System Analysis and Design (4)
CIS 375 Data Communications (4)
CIS 427 Design and Implementation of Information Systems (4)
CIS 429 Introduction to Software Engineering (4)
CIS 461 Database Design and Implementation (4)
CIS 465 Information Center Functions (4)
CIS 482 System Analysis and Design Field Project (4)
CIS 483 System Analysis and Design Field Project II (1)
CIS 485 Senior Seminar (1)

Elective courses selected from the following (12 credits):

CIS 245 Advanced Microcomputer Applications and Concepts (4)
CIS 257 RPG Programming (2)
ComS/CIS 260 Topics in Programming Languages (1-4)
ComS/CIS 270 Introduction to C/UNIX (4)
ComS/CIS 285 Computer Simulation Models (4)
ComS 300 Ethical and Social Concerns of Computer Scientists (3)
ComS 305 Logical Design of Computers (4)
ComS 305L Logical Design Laboratory (1)
ComS 315 Data Structures (4)
ComS 380 Introduction to System Software (4)
CIS 469 Internship (4-16)
CIS 480 Topics in Computer Science/CIS (1-3)
CIS 490 Independent Study (1-4)

Requirements in Related Fields (47 credits):

Acct 229 Principles of Accounting I (4)
Acct 230 Principles of Accounting II (4)
Engl 287 Technical Report Writing (4)
Acct 310 Principles of Accounting III (4)
Finc 340 Corporate Finance I (4)
Mgmt 360 Principles of Management (4)
Mgmt 424 Management Science I (4)
Mgmt 451 Organizational Behavior (4)
Spch 210 Effective Business Speaking (4)
Math 273 Mathematics for Business and Social Sciences (4)
Math 274 Introduction to Statistics I (4)
Math 275 Introduction to Statistics II (4)

Recommended Liberal Arts Courses and Electives:

Econ 202 Principles of Economics I (4)
Econ 204 Principles of Economics II (4)
Psy 113 General Psychology (4)
Psy 119 Social Behavior (4)
or Soc 110 Intro to Sociology (4)
or Ed 413 Interpersonal Communication (3)

Minor in Computer Science (36 credits)

ComS 201 Introduction to Computers and Programming I (4)
ComS 202 Introduction to Computers and Programming II (4)
ComS 204 Assembly-Language Programming (4)
Elective courses from the list of required or elective courses for the Computer Science Major (24)

Minor in Computer Science (Teaching) (36 credits)

ComS 201 Introduction to Computers and Programming I (4)
ComS 202 Introduction to Computers and Programming II (4)
ComS 204 Assembly-Language Programming (4)
ComS 430 Teaching Computer Science (4)
Elective courses from the list of required or elective courses for the Computer Science Major (Teaching) (20)

Minor in Computer Information Systems (36 credits)

CIS 145 Business Data Processing (4)
ComS 201 Introduction to Computers and Programming I (4)
ComS 202 Introduction to Computers and Programming II (4)
CIS 255 COBOL Programming (4)
CIS 256 Advanced COBOL and File Organization (4)
CIS 257 RPG Programming (2)
CIS 346 Structured System Analysis and Design (4)
Elective courses from the list of required or elective courses from the Computer Information Systems major (10)

Requirements in Related Fields (20 credits)

Acct 229 Principles of Accounting I (4)
Acct 230 Principles of Accounting II (4)
Engl 287 Technical Report Writing (4)
Finc 340 Corporate Finance I (4)
Mgmt 360 Principles of Management (4)

COMPUTER SCIENCE/COMPUTER INFORMATION SYSTEMS COURSES

ComS 110 Introduction to Microcomputers (2) (FWSss)

This is a course designed for students with little or no background in computing. Overview of what computers can do and how to use them. Hands-on experience with microcomputers. Discussion of computer terminology. No prerequisite. Not open to those who have completed CIS 145.

ComS 120 Computers and Society (2) (W)

Introduction to computers and their impact on society. Discussion of computer applications, trends, promises and concerns. Prerequisite: ComS 110 or equivalent. Not open to those who have completed ComS 300.

ComS 130 BASIC Programming with Microcomputers (4) (FWSss)

Introduction to the BASIC programming language and problem solving using structured programming techniques. No prerequisite.

ComS 140 FORTRAN Programming (4) (FS)

Introduction to FORTRAN programming language and problem solving using structured programming techniques. No prerequisite.

CIS 145 Business Data Processing (4) (FWSss)

Introduction to basic concepts of digital computers and programming as related to business and industry. No prerequisite.

ComS 201 Introduction to Computers and Programming I (4) (FWSss)

Introduction to problem solving and programming in a high-level language. A fifth-hour per week recitation/discussion session is required. Prerequisite: Math 131.

ComS 202 Introduction to Computers and Programming II (4) (FWSss)

Continuation of ComS 201 with emphasis on data presentations and organizations, system concepts and structured programming. A fifth-hour per week recitation/discussion session is required. Prerequisite: ComS 201.

ComS 204 Assembly-Language Programming (4) (FS)

Introduction to an assembly language, machine architecture and assembly-language programming. A fifth-hour per week recitation/discussion session is required. Prerequisite: ComS 202.

CIS 245 Advanced Microcomputer Applications and Concepts (4) (FS)

An in-depth study of microcomputer hardware and software uses and concepts focusing on popular operating systems and application software. Prerequisite: CIS 145 or consent of instructor.

ComS 250 Numerical Methods (4) (F)

A computer programming approach to numerical problems including error analysis, linear systems, curve fitting, polynomial approximations and numerical integrations. Only 8 credits of ComS 250, ComS 450 and ComS 451 will count in the ComS major. Prerequisite: ComS 202 and Math 232.

CIS 255 COBAL Programming (4) (FWss)

Introduction to the COBAL programming language including problem solving and programming. Prerequisite: ComS 201.

CIS 256 Advanced COBAL and File Organization (4) (WSss)

Advanced COBAL features and file organizations and processing. File organizations include sequential, indexed, relative and multi-key file organizations. Prerequisite: CIS 255.

CIS 257 RPG Programming (2) (S)

Introduction to the RPG II or RPG III programming language including problem solving and programming. Prerequisite: CIS 255 or consent of instructor.

ComS/CIS 260 Topics in Programming Languages (1-4) (FSss)

A study of programming language topics not offered regularly in other programming courses. A maximum of 4 credits (6 for teaching majors) applicable toward the major or minor. Prerequisite: Consent of instructor and knowledge of a programming language.

ComS 270 Introduction to C/UNIX (4) (FS)

A study of the C programming language. Additional topics relating to the C/UNIX environment will be included. Prerequisite: ComS 202.

ComS/CIS 285 Computer Simulation Models (4) (S)

An introduction to computer simulation languages and their application to the development of real-world simulation models. Prerequisite: Math 275 and ComS 202.

ComS 300 Ethical and Social Concerns of Computer Science (3) (S)

Ethical questions and societal concerns related to the widespread use of computers and the resulting responsibilities of computer scientists. Prerequisite: ComS 202, Engl 287, Spch 100 or Spch 210.

ComS 305 Logical Design of Computers (4) (FW)

An introduction to the logical design of computers including Boolean Algebra, logical devices, combinational and sequential circuit analysis and synthesis. Prerequisite: ComS 204 and Math 265.

ComS 305L Logical Design Laboratory (1) (FW)

A three-hour per week laboratory devoted to the implementation and testing in computer logic circuits. Prerequisite: ComS 305.

ComS 315 Data Structures (4) (FS)

Discussion of information representations and processing techniques for lists, strings, trees, graphs and records. Prerequisite: ComS 202.

ComS 325 Microprocessors (4) (W)

Introduction to microprocessing systems including concepts of data bus, clock cycle, direct access, I/O interface, interrupts and instruction set. A three-hour per week laboratory session is required. Prerequisite: ComS 305.

CIS 346 Structured System Analysis and Design (4) (FS)

The analysis and design of computer information systems to include a systems development life cycle and the accompanying analysis/design tools. Prerequisite: CIS 256 or ComS 202, Engl 287, Spch 100 or Spch 210.

ComS 370 Advanced Data Structures (4) (S)

A study of file organizations, file indexing, internal/external search, sort and merge algorithms, memory management, garbage collection and compaction, and advanced tree structures. Prerequisite: ComS 315.

CIS 375 Data Communications (4) (F)

Data communication for centralized, decentralized and distributed information system. Prerequisite: ComS 204 and CIS 346. Not open to students who have completed ComS 406.

ComS 380 Introduction to System Software (4) (FW)

Introduction concepts in systems programming including assembly, relocation, linking and loading, translation and sequential operating systems. Project required. Prerequisite: ComS 204, Engl 287 and ComS 315.

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

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

ComS 410g Compiler Design I (4) (F)

Organization of compilers; transition graphs, lexical analyzers, regular expressions and lexical analyzer generators; context-free grammars, top-down and bottom-up parsers, and parser generators; error recovery. Required project: Design and implement a lexical analyzer and parser. Prerequisite: ComS 315 and Math 265.

ComS 411g Compiler Design II (4) (W)

Syntax directed definitions and translation schemes; runtime memory organizations and scope analysis; semantic analysis and type checking; intermediate code generation; introduction to target code generation and optimization. Required project: Design and implement a compiler front end (lexical analyzer, parser and intermediate code generator). Prerequisite: ComS 410.

ComS 415g Operating Systems I (4) (W)

A study of operating systems as a resource manager with emphasis on memory. Prerequisite: ComS 380.

ComS 416g Operating Systems I Lab (1) (S)

Design and implementation of a simulated batch multiprogrammed operating system. Project required. Prerequisite: ComS 415 and CIS 429.

ComS 420g Design and Implementation of High Level Languages (4) (F)

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 425g Computer Architecture (4) (F)

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

CIS 427g Design and Implementation of Information Systems (4) (W)

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 and CIS 375.

CIS 429 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 430g Teaching Computer Science (4) (W)

Issues, methods and materials typically encountered in the instruction of elementary and secondary school computer science. Prerequisite: Consent of instructor.

ComS 450g Numerical Analysis I (4) (W)

Numerical solutions to equations, finite differences, interpolation formulas, numerical calculus. Only 8 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 451g Numerical Analysis II (4) (S)

Numerical methods related to linear algebra and differential equations. Only 8 credits of ComS 250, ComS 450 and ComS 451 will count in the ComS major. Prerequisite: ComS 450 and Math 327.

CIS 461 Database Design and Implementation (4) (FS)

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.

CIS 465 Information Center Functions (4) (F)

Information center methods of building systems through collaboration with users and analysts. Fourth-generation systems and the changing role of the programmer/analyst. Prototyping versus traditional life-cycle development. Prerequisite: CIS 461.

ComS/CIS 469 Internship (4-16) (FWS)

Opportunity for students to supplement classroom learning with field work with a computer-using agency. A maximum of 4 credits applicable toward the major. Prerequisite: ComS 315 or CIS 427, junior standing, consent of instructor, and a GPA of 2.75.

ComS 470g Computer Graphics (4) (W)

Introduction to graphics display technology and graphics standards. Software issues for scan conversion, interactive graphics, and two- and three-dimensional graphics, along with their related mathematical theory are investigated. Prerequisite: ComS 315 and Math 327.

ComS 475g 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 and Math 265.

ComS/CIS 480 Topics in Computer Science/CIS (1-3) (FWSss)

Discussion of current topics not included in other computer science courses. Repeatable. A maximum of 3 credits applicable toward the major. Prerequisite: Junior standing and consent of instructor.

CIS 482g System Analysis and Design Field Project (4) (W)

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. Open to CSIS majors only. Prerequisite: CIS 427, CIS 429 and CIS 461.

CIS 483 System Analysis and Design Field Project II (1) (S)

Students continue work on their CIS 482 project. This will involve maintenance of the system and possibly installing hardware and software packages that were purchased as a result of a recommendation made in CIS 482. Prerequisite: CIS 482.

ComS/CIS 485 Senior Seminar (1) (FWS)

Library and independent study of advanced computing topics followed by oral and written presentations. Prerequisite: Senior major and Spch 100 or Spch 210.

ComS/CIS 490 Independent Study (1-4) (FWSs)

Independent study of advanced topics under guidance of department faculty. May be repeated to a maximum of 4 credits. Prerequisite: Consent of instructor.

ComS 500 Fundamental Structures (3) (S)

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 Theory and Formal Languages (3) (F)

Finite state automata, regular expressions, grammars and formal languages; equivalence of classes of finite state and regular languages; grammar transformations (CNF and GNF); pumping lemmas for regular and context-free languages; push down automata and Turing machines. Prerequisite: Math 265 and ComS 315.

ComS 504 Design and Analysis of Algorithms (3) (S)

Apriori and Aposteriori analysis: algorithm design techniques; divide-and-conquer, greedy, dynamic programming, backtracking, and branch-and-bound; introduction to lower bound theory, NP-completeness, and approximation. Prerequisite: Math 265 and ComS 315.

ComS 506 Computer Networks II (4) (F)

A study of layered network architecture, network applications, and presentation layer protocols including virtual terminal and file transfer protocols; data cryptography and text comprehension. Prerequisite: ComS 406, ComS 415 and ComS 425.

ComS 511 Advanced Topics in Compiler Design (3) (S)

Target code generation: basic blocks and flow graphs, register allocation and assignment, code generation algorithms, code generator generators. Code optimization techniques: peephole, code improving transformations, data flow analysis of flow graphs. Required project: Design and implement a compiler back end (target code generator and optimizer). Prerequisite: ComS 411.

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 Database Systems I (3) (F)

Databases, object bases, and knowledge bases; database models (E-R, relational, hierarchical, network, and object-oriented); relational algebra and calculus as database languages; commercial relational based languages (QUEL, SQL); introduction to relational database design theory. Required project: Design and implement a relational database using a commercial DBMS. Prerequisite: ComS 315.

ComS 522 Database Systems II (3) (W)

Logic-based database languages (Datalog); evaluation algorithms for logic-based languages; transaction management, concurrency control, and query optimization; introduction to distributed database systems. Project required. Prerequisite: ComS 521.

ComS 525 Analysis of Computer Systems (3) (W)

Comparison of various computer architectures based on instruction-set processors, addressing techniques, I/O structures, memory organization and protection schemas. Prerequisite: ComS 425.

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)

Software evolution; software design methods (object-oriented and function-oriented); user interface design; design quality assurance; data abstraction, portability and reuse. Project required. Prerequisite: ComS 315.

ComS 541 Software Engineering II (3) (S)

Program verification, validation, and testing techniques; tools for verification, testing, and debugging; software management and cost estimation; project planning and scheduling; configuration management, software quality assurance, and documentation. Project required. Prerequisite: ComS 540.

ComS 575 Expert Systems (3) (W)

An in-depth study of a branch of Artificial Intelligence which employs human knowledge captured in a computer to solve problems ordinarily requiring human expertise. Tools to support knowledge acquisition and organization are explored. Required project involves developing an expert system using the tools discussed. Prerequisite: ComS 475.

ComS 580 Seminar: Advanced Topics in Computer Science (3) (FWS)

Discussion of current topics not included in other computer science courses. Prerequisite: Graduate standing and consent of instructor.

ComS 590 Independent Study (1-3) (FWS)

Prerequisite: Graduate standing and consent of instructor.

ComS 597 Project in Computer Science (Plan B) (3) (FWS)

Prerequisite: Consent of project advisor.

ComS 599 Thesis in Computer Science (9) (FWS)

Prerequisite: Consent of thesis advisor.

Criminal Justice

See *Sociology-Anthropology for Curricula*.

CRIMINAL JUSTICE COURSES

CJ 200 Introduction to Criminal Justice (4) (Fws)

Overview of the criminal justice field emphasizing history and description of the contemporary United States system.

CJ 201 Criminal Law (4) (Fws)

Substantive criminal law, development and meaning of principles of criminal law, current issues.

CJ 309 Law and Society (3-4) (Fs)

Relationships of law and society; social forces in law making, dynamics of law administration, social, cultural and behavioral effects of law. Prerequisite: Soc 110 or CJ 200 or consent of instructor.

CJ 400 Seminar in Criminal Justice (3-4) (Fws)

In-depth analysis of one area of the criminal justice system. Prerequisite: Consent of instructor.

CJ 430 Minnesota Criminal Law and Procedure (4) (W)

The Minnesota criminal statutes, and the Minnesota rules of criminal procedure are examined. Prerequisite: CJ 201 or Pol 231 or consent of instructor.

CJ 461 Readings in Criminal Justice (1-4) (Fws)

Selected readings in Criminal Justice under the close supervision of members of the department. Prerequisite: Upper-division status and permission of the instructor.

CJ 469 Internship in Criminal Justice (3-16) (Fws)

**Economics Department
MacLean 371
(218) 236-2842**

Chair: Douglas Greenley

Faculty: Deborah Battles, John Cooper, Vernon Dobis, Golam Farooque, Oscar Flores, Daniel Knighton, Li-teh Sun

ECONOMICS CURRICULA

Major in Economics B.A. Degree

Major Requirements in Economics (51 credits)

Econ 202-204-206 Principles of Economics I-II-III (12)

Econ 290 Introduction to Economic Literature and Methodology (3)

Econ 302 Intermediate Microeconomic Theory (4)

Econ 304 Intermediate Macroeconomic Theory (4)

Econ 317 History of Economic Thought (4)

Econ 370 Quantitative Economic Analysis (4)

Econ 411 Economic History of the United States (4)

Additional electives in Economics (16)

Requirements in Related Fields (24 credits)

CIS 145 Business Data Processing (4)

Math 273 Linear Algebra/Applied Calculus I (4)

Math 274 Introduction to Statistics I (4)

Acct 229 Principles of Accounting I, Financial (4)

Additional courses in Accounting or Computer Science (8)

Students planning to do graduate work in Economics are encouraged to take additional mathematics courses, preferably Math 231-234, Calculus, and to complete at least one full year of a modern foreign language.

Major in Economics, Social Studies (Teaching)

Only the approved Social Studies major can be accepted for secondary teaching certification. See Social Studies.

Minor in Economics (35 credits)

Econ 202-204-206 Principles of Economics I-II-III (12)

Econ 290 Economic Literature and Methodology (3)

Econ 302 Intermediate Microeconomic Theory (4)

Econ 304 Intermediate Macroeconomic Theory (4)

Econ 317 History of Economic Thought (4)

Approved electives in Economics (8)

ECONOMICS COURSES

Econ 100 The American Economy (4) (fws)

A one-quarter course in principles of economics for non-business and non-economics majors with special emphasis on the American economy.

Econ 202 Principles of Economics I: Micro (4) (Fws)

An introductory study of the price system, resource allocation and income distribution.

Econ 204 Principles of Economics II: Macro (4) (fWs)

An introductory study of national income, fiscal and monetary theory and policy, unemployment and inflation. Prerequisite: Econ 202.

Econ 206 Principles of Economics III: International (4) (fws)

An introductory study of international trade, finance and development. Prerequisite: Econ 204.

Econ 290 Introduction to Economic Literature and Methodology (3) (FS)

The organization, presentation and interpretation of economic findings; library resources, methodological problems and paper writing are examined. Prerequisite: Econ 206.

Econ 302 Intermediate Microeconomic Theory (4) (W)

Theories of consumer and producer behavior under various institutional regimes; theory of production and distribution; general equilibrium and welfare criteria. Prerequisite: Econ 206.

Econ 304 Intermediate Macroeconomic Theory (4) (FS)

An examination of national income accounting, income determination, employment, growth theory and economic policy. Prerequisite: Econ 206.

Econ 310 Topics in Economics (1-4)

Topics of current interest not covered elsewhere in curriculum. Prerequisite: Econ 202 or consent of instructor. May be repeated for credit.

Econ 315 Government and Business (4) (FS)

A survey course which includes governmental enforcement of competition, regulation of public utilities, and public enterprise. Prerequisite: Econ 206. (Same as Mgmt 315)

Econ 317 History of Economic Thought (4) (FS)

The origins and development of economic ideas from ancient times to the present are examined. Prerequisite: Econ 206 or equivalent.

Econ 320 Money and Banking (4) (fws)

Roles of money, banking and the financial market place; monetary policy; relationship of monetary variables to general economic policy. Prerequisite: Econ 206. (Same as Finc 320)

Econ 330 Economic Development (4) (S)

A survey of development theories and their relevance to problems of international income inequalities and growth. Prerequisite: Econ 206.

Econ 340 Comparative Economic Systems (4) (W)

Alternative solutions to the economic problem as reflected in capitalism, socialism and communism are examined in contemporary contexts. Prerequisite: Econ 206.

Econ 350 Public Finance (4) (F)

Study of taxes and expenditures of federal, state, and local governments and their effects upon economic activity; fiscal policy and the national debt. Prerequisite: Econ 206. (Same as Finc 350)

Econ 370 Quantitative Economic Analysis (4) (W)

Study of quantitative techniques employed in economics. Prerequisites: Math 274 and Econ 206.

Econ 380 Economic and Social Security (4)

Investigation of institutional arrangements and theoretical framework involved in economic transfer mechanisms and poverty programs. Prerequisite: Econ 100 or 202. (Same as SW 380)

Econ 411(g) Economic History of the United States (4) (S)

Survey of the economic history of the United States from the colonial period to the present. Prerequisite: Econ 206

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

Analysis of market structure, market conduct, and economic performance. Public policy regarding the attainment of workable competition in industry. Prerequisite: Econ 315. (Same as Mgmt 415)

Econ 416(g) Labor Economics (4) (W)

Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation. Prerequisite: Econ 206. (Same as Mgmt 416)

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

Theories and institutions of trade and finance are examined in traditional and contemporary contexts. Prerequisite: 304 or 320. (Same as Finc 425)

Econ 430(g) Managerial Economics (4) (W)

Integration of quantitative methods and economic theory used in managerial decision-making. Prerequisite: Econ 206 and Mgmt 360. (Same as Mgmt 430).

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

An individual inquiry into economic issues not dealt with in the regular curriculum. Prerequisite: Econ 206 and consent of instructor. May be repeated for credit.

Econ 469 Internship (1-16) (FWS)

Supervised economic field work through placement in governmental, volunteer or commercial agencies.

Prerequisite: Junior or Senior standing and consent of instructor and chairperson.

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.

EDUCATION

AREAS OF STUDY: Early Childhood Education, Elementary Education, Health, Physical Education and Recreation, Special Education, Secondary Education, Graduate Education which includes Elementary Education, Special Education, Reading, Counselor Education, and Educational Administration in conjunction with Tri-College University, and Counseling and Human Development.

Teacher Education license programs are offered through the following departments: Elementary & Early Childhood Education; Health, Physical Education & Recreation; Special Education & Counseling; and Secondary Education & Foundations in conjunction with a major(s) in an academic department.

Specific requirements and course descriptions may be found under the department heading; for example, elementary in Elementary and Early Childhood Education Department, and art education in Art Department and Secondary Education and Foundations Department. Students seeking to become licensed teachers must earn at least a bachelor's degree with one teaching major and complete all teacher education requirements.

Descriptions of graduate programs and courses may be requested from the Office of Graduate Studies.

Teacher Education Requirements

To be eligible for graduation and/or licensure in any teacher education major, the candidate shall fulfill all of the following requirements:

- (A) Admission to teacher education and retention in good standing;
- (B) Completion of a professional education sequence of courses appropriate to the level of teacher preparation;
- (C) Fulfillment of an approved human relations component;
- (D) Completion of one or more courses in health education, including instruction in the effects of narcotics and alcohol; and
- (E) Student teaching.

Selective Admission and Retention in Teacher Education (SARTE) Formal application for admission to teacher education is completed during the student's first education course.

To be admitted to a program in teacher education, students must:

- (1) complete Ed 200 or SpEd 200, Ed 213, Ed 214, and SpEd 220/320 with no grade lower than "C";
- (2) have an overall GPA of 2.5;
- (3) take the Pre-Professional Skills Test (PPST);
- (4) complete a writing sample; and
- (5) submit a completed application form to the Office of Field Experiences.

Students who fail to maintain an overall GPA of 2.5 will be suspended from the program. Appeal processes are handled by the Teacher Education Admission and Retention Committee (TEARC).

Dismissal from Teacher Education

A faculty member, supervising teacher, or administrator of a school to which a student is assigned may request the TEARC to review the fitness of any student enrolled in a teacher education curriculum.

Professional Education Sequence

Any curriculum leading to graduation and/or licensure with a teaching major shall include courses in the professional preparation of teachers designated by the appropriate MSU Teacher Education Department to comply with requirements of the Minnesota State Board of Teaching.

Human Relations Component

All applicants for teaching licenses in Minnesota are required by Minnesota regulation EDU 521 to have completed a training program to develop competency in human relations.

Inservice teachers or holders of a bachelor's degree, either teaching or non-teaching, must attain 6 quarter credits in human relations, including 3 credits at the cognitive level and 3 credits at the affective level. Courses must be approved by the Human Relations

Committee at Moorhead State University subject to approval by the Minnesota State Department of Education.

The undergraduate teaching candidate has several options to satisfy the human relations requirement. A brochure detailing the various MSU programs is available from faculty advisors or from the Human Relations Office in the Office of Field Experiences located in Lommen Hall.

Forms to be used for certifying completion of the human relations component are also available at the Human Relations Office.

Student Teaching

Student teaching should be completed during the 9th, 10th or 11th quarter of college in order to provide time for placement interviews during the final quarter.

Students are requested to apply for admission to student teaching at least two full quarters in advance of their assignment. Application forms for admission to student teaching are available from the Office of Field Experiences, located in Lommen Hall.

While departments may have differing and/or higher requirements, the lowest acceptable standards for admission to student teaching include:

- (A) a GPA of 2.5 or higher in all credits earned at Moorhead State University;
- (B) a GPA of 2.5 or higher in professional education courses;
- (C) the recommendation of the student's faculty advisor;
- (D) a GPA of 2.5 or higher in the major;
- (E) demonstration of competency in the basic skills of language and mathematics;
- (F) a GPA of 2.25 or higher in liberal arts courses;
- (G) completion of an autobiography; and
- (H) completion of an application form.

Students should not plan to enroll for additional courses or hold employment during full-time student teaching (16 credits). Other courses may not be substituted for student teaching.

Student teachers will follow the calendar of the school in which they are assigned. The number of days of student teaching will at least equal the number of class days in the university quarter.

Elementary education majors in the Professional Fourth Year (PFY) curriculum will complete student teaching as an integral part of the entire program. See Elementary and Early Childhood Education Department.

Transportation, food, lodging and liability insurance are arranged and paid for by the student.

Student teaching placements will be based on available classroom teachers and university supervisors. Travel may be necessary.

License Programs and Applications

Completion of a degree including a teaching major and teacher education requirements will normally qualify for licensure. However, several majors (e.g., music, business education, early childhood education, special education) include different concentrations or options leading to one or more specialized licenses in the major field. Special licenses in such areas as coaching, learning disabilities, or kindergarten may be added through appropriate minors or course selections.

Completion of secondary education curricula will fulfill license requirements for grades 7-12, except that students with teaching majors in art, foreign languages, health, music or physical education may qualify for grades K-6 also by completing

- (A) part of their student teaching at the elementary level; and
- (B) any stipulated elementary teaching method courses.

Students who plan teaching careers are advised to examine all license options and contact the head of such programs as early as possible.

A curriculum Worksheet for Teaching License must be completed and signed by all license program coordinators and submitted to the Registrar before any license application may be processed. The applicant should secure such a worksheet from the Records Office (Owens 104) or one of the Education Departments (Lommen Hall) early in the senior year and return it to the Records Office as soon as possible after securing all signatures to prevent any delay in processing the license application.

Application forms for Minnesota licenses are available at the Records Office. Forms for other states should be requested from the appropriate state agencies. Completed applications and checks or money orders for state license fees are submitted to the Records Office where they will be processed and forwarded after verification.

Moorhead State University is authorized to endorse license applications to other states only for students who have fulfilled all requirements for approved license programs in Minnesota.

Educational Administration

In the field of educational administration, the staff is an integral part of the Tri-College University, a consortium composed of MSU, North Dakota State University and

Concordia College, which awards the Master of Science and Educational Specialist degrees. Programs meet certification requirements in the various areas appropriate to elementary and secondary administration. Professional titles, levels and specialties available include the following: superintendent, assistant superintendent, senior high school principal, junior high school principal, and elementary school principal. Application forms and information regarding TCU educational administration and the other offerings can be secured from the MSU graduate dean, the Elementary and Early Childhood Education Department (E&EC), or the Secondary Education and Foundations Department (SE&F). (See E&EC or SE&F departments for course listings.)

Elementary and Childhood Education Department

**Lommen 214V
(218) 236-2216**

Chair: Sandra L. Gordon

Director of Field Experiences: Mary Worner

Faculty: Beth Anderson, Ramona DeCoteau, Joseph DiCola, Virginia Gassner (on leave), Charlotte Iiams, Sandra Pogge, Roberta Shreve, Sarah Smedman, Cheryl Sunflower, Kris Valen, Doris Walker-Dalhousie

AREAS OF STUDY: Early Childhood Education, Elementary Education, English as a Second Language, Reading, Graduate Education which includes Elementary, Reading and Educational Administration in conjunction with Tri-College University.

ELEMENTARY AND EARLY CHILDHOOD EDUCATION CURRICULA

The Elementary and Early Childhood Education Department offers one elementary education preparation program which culminates in the Professional Fourth Year or PFY.

Freshmen interested in becoming elementary education majors will be identified as undeclared until they register in Ed 200. Usually this occurs sometime during the sophomore year.

Minnesota State Board of Teaching requirements for teaching in the public elementary schools are included in the curriculum for the elementary education major. All teacher education requirements must be fulfilled to complete a major. (See Education) Students interested in an elementary education major spend their first years completing Liberal Arts, two concentrations and prerequisites. Only grades of C or higher are accepted in the concentrations. Students are expected to attend a hand-

book advising session as soon as they have identified elementary education as their major. Students are urged to begin their professional work in the sophomore year by enrolling in Ed 200, Careers in Education. Completion of the PPST is required before students may enroll in 300 and 400 level courses. Passing the PPST is mandatory before students will receive Minnesota licensure. A 2.75 GPA is required to enter the PFY program. Only grades of C or higher are accepted in the elementary education major course work. Repeating any PFY course must be done in consultation with the department chairperson.

Students must apply for admission into the PFY program one quarter prior to entry. Notices about obtaining and submitting applications are posted in Lommen Hall and are listed in *The Advocate*. Students unable to participate in, or not needing a full-year, full-time program should contact the department.

Major in Elementary Education

Ed 305 Educational Psychology (3)
Ed 306 Measurement and Evaluation (2)
EIEC 345 Orientation to Teaching Reading (3)
EIEC441 Children's Literature (4)
PE 240 Physical Education in Elementary Schools (2)
Art 340 Art in Elementary Schools (2)
Mus 340 Music in Elementary Schools (2)
EIEC 420C Child Growth (2)
EIEC 421B Language Arts in Elementary Schools (3)
EIEC 421C Reading in Elementary Schools (4)
EIEC 421F Audiovisual: Elementary School (1)
EIEC 467 Practicum I (2)
Math 340 Mathematics in Elementary Schools (4)
EIEC 420B Professional Teacher (4)
EIEC 421E Science Health in Elementary Schools (3)
EIEC 421S Social Studies in Elementary Schools (3)
EIEC 467 Practicum II (2)
EIEC 451E Student Teaching (16)

The following must be completed before enrolling in the PFY Program:

Ed 200 Career Explorations in Education (3)
Ed 213 Interpersonal Communications (3)
Ed 214 Human Growth and Development (3)
SpEd 220 Education of the Exceptional Child (3)
Art 100 Elements of Art (or equivalent) (3)
Mus 110 Fundamentals of Music (or equivalent) (3)
Math 100 Introduction to Mathematics (4)
Math 203 Foundations of Number Systems (4)
Hlth 110 Personal and Community Health (4)
Hlth 124 First Aid-Elementary Education (1)
Completion of Human Relations Program
PE 240 Physical Education in the Elementary School (2)
Ed 305 Educational Psychology (3)
EIEC 306 Measurement and Evaluation: Elementary Schools (2)
EIEC 345 Orientation to Teaching Reading (3)
EIEC 441 Children's Literature: Content and Methods (4)

These courses are taken during the PFY Program:

- Art 340 Art in Elementary Schools (2)
- Mus 340 Music in Elementary Schools (2)
- EIEC 420C Child Growth and Development of Elementary School Children (2)
- EIEC 421B Language Arts in Elementary Schools (3)
- Math 340 Mathematics in Elementary Schools (4)
- EIEC 421F Audiovisual: Elementary School (1)
- EIEC 467 Practicums I (2) and II (2)
- EIEC 421C Reading in Elementary Schools (4)
- EIEC 420B Professional Teacher (4)
- EIEC 421E Science/Health in Elementary Schools (3)
- EIEC 421S Social Studies in Elementary Schools (3)
- EIEC 451E Student Teaching (16)

Minor in Elementary Education

The purpose of the Elementary Education minor is to supplement other teaching majors. Students who may be interested are those with majors such as School Psychology, Mathematics, Physical Education, Music, and Art. The minor does not meet requirements for a teaching licensure. Work in addition to this minor is required for licensure to teach in grades 1-6. Prerequisite: Ed 214 Human Growth and Development (3)

Required:

- EIEC 345 Orientation to Teaching Reading (3)
- EIEC 420C Child Growth and Development (2)
- EIEC 421B Language Arts (3)
- EIEC 421C Reading: Elementary School (4)
- EIEC 421E Science/Health (3)
- EIEC 421S Social Studies (3)
- EIEC 441 Children's Literature: Content and Methods (4)
- SpEd 220 or SpEd 411 (3-4)
- Math 203 Foundations of Number Systems (4)
- Select 6-8 electives from the following courses to complete the 36 required in the minor. Substitutes for electives may be made by your advisor.
- EIEC 346 Linguistic Foundations for Reading (3)
- EIEC 448 Reading Study Skills in the Content Area (Lab required) (4)
- EIEC Field Experience (can be taken only after completion of #1, required, as listed above) (1-3)
- Math 100 Introduction to Mathematics (4)
- Math 340* Mathematics in the Elementary School (4)
- Psy 401 Child Psychology (4)
- SpEd 421 Gifted Child (3)
- SpEd 445 Remedial and Corrective Reading (3)
- SpEd 465 Special Education Reading (3)
- SpEd 471 Behavior and Environmental Management (3)
- CDFR classes from NDSU - Advisor approval
- * Prerequisites: Math 100 and Math 203

English as a Second Language Licensure Program (ESL)

All candidates recommended for licensure to teach English as a Second Language in grades kindergarten to 12 shall:

1. hold a baccalaureate degree;

2. satisfactorily complete a minimum of two years college-level or four years of high school-level foreign language, or equivalent experience in learning another language and interacting with another culture;
3. satisfactorily complete a professional education preparation program for teachers of English as a Second Language approved by the Board of Teaching, consisting of 35-36 quarter hours, or the equivalent. (A valid Minnesota teaching license, K-12, 7-12, or 1-6 would exempt teachers from these requirements); and
4. satisfactorily complete the student teaching component of full day experiences for one academic quarter, or its equivalent, which includes both elementary and secondary education levels with students of limited English proficiency.

Requirements in lieu of valid Minnesota teaching license, K-12, 7-12, or 1-6:

Complete the MSU professional core of education courses for elementary or secondary licensure plus additional Minnesota licensure requirements.

Specific ESL Licensure Requirements (36 credits)

- These courses are offered over a two year cycle.
- Engl 361(g) Introduction to Descriptive Linguistics (4)
- Engl 364(g) American English (4)
- Anth 370 Anthropology/Linguistics (4)
- SLHS 401(g) Psycholinguistics (4)
- Anth 110 Introduction to Culture/Symbols (4)
- Anth 375 Language in Culture (4)
- EIEC 480(g) Reading in ESL (3)
- EIEC 481(g) Teaching English to ESL (3)
- Electives approved by program advisor (6)

Additional Requirements (16 credits)

- EIEC 450E Student Teaching Elementary: LEP (8)
- EIEC 451S Student Teaching Secondary:LEP (8)

Minor in Language and Literacy

This minor offers appropriate background courses for students wishing to develop a reading licensure foundation. The Literacy Concentration is one alternative for developing the content. Contact the Elementary and Early Childhood Education Department for listings of these programs and advising help in planning. Courses within the sequence are offered every quarter.

Students seeking to qualify as elementary or secondary remedial reading teachers may elect the reading minor and plan a curriculum with an advisor leading to the appropriate license program. However, a reading license cannot be issued until after two years of teaching experience.

Any elementary or secondary teaching major is required for the developmental reading license. Remedial reading will be licensed at the level of the student's teaching major preparation.

Prerequisites are: Ed 200

Careers Explorations in Education (3)

Ed 214 Human Growth and Development (3)

Core Requirements:

EIEC 345 Orientation to Teaching Reading (3)

EIEC 346(g) Language Foundations for Reading Instruction (3)

EIEC 441(g) Children's Literature (4)

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

SpEd 445(g) Remedial and Corrective Reading (4)

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

EIEC 474(g) Language Arts in Early Childhood (3)

EIEC 499(g) Reading Conference (1-3)

Two Courses From the Following:

EIEC 342 Comprehension Strategies (3)

EIEC 480(g) Teaching Reading: Second Language (3)

Spch 341 Creative Dramatics (4)

Engl 365 Language and Learning (4)

Additional Electives:

Ed 417 Counseling Skills I (3)

EIEC 431(g) Gifted Child (3)

Anth 110 Introduction to Cultural Symbols (4)

Anth 370 Anthropological Linguistics (4)

Anth 375 Language in Culture (4)

SLHS 101 Introduction to Speech, Language, Hearing Science (3)

SLHS 401 Psycholinguistics (3)

Major in Early Childhood Education

The major in Early Childhood Education includes licensure in prekindergarten teaching.

All majors complete teacher education requirements listed below:

General Liberal Arts (64)

Health 110 (4)

Human Relations (10)

Professional Prerequisites

Hlth 124 First Aid (1)

Ed 200 Career Explorations in Education (2)

Ed 200L Laboratory (1)

Ed 213 Interpersonal Communications (3)

Ed 214 Human Growth and Development (3)

Ed 305 Educational Psychology (3)

Major Courses

EIEC 370 Growth and Development of the Young Child (3)

EIEC 371 Observing and Recording Young Children's Behavior (1)

EIEC 372 Art, Music & Literature for Young Children (3)

EIEC 373 Foundations of Early Childhood Education (4)

EIEC 375 Theories of Instruction with Young Children (3)

EIEC 424 Infant/Toddler Programs and Practices (4)

EIEC 441 Children's Literature (4)

EIEC 474 Language Arts in Early Childhood (3)

EIEC 475 Curriculum Development for Young Children (4)

EIEC 477 Senior Seminar (3)

EIEC 478 Play and Development (3)

CDFS 482 Organization and Administration in Early Childhood (3)

CDFS 483 Parent-Professional Relationships (4)

SpEd 364 Consultation in Special Education (3)

SpEd 424 Assessment of Infants/Young Children (4)

SpEd 425 Teaching Young Children with Special Needs (4)

SpEd 471 Behavior & Environmental Management (3)

EIEC 469 Internship (4)

EIEC 455C Student Teaching (Infant/Toddler) (8)

EIEC 455C Student Teaching (Preschool) (8)

Minor in Early Childhood Education

A minor in Early Childhood Education is available for students with teaching majors who seek additional licensure as prekindergarten (nursery school) teachers.

In addition to the following courses, at least six credits of student teaching must be at the prekindergarten level.

EIEC 370 Growth and Development of the Young Child (3)

EIEC 371 Observing and Recording Behavior (1)

EIEC 372 Art, Music and Literature for Young Children (3)

EIEC 373 Foundations of Early Education (4)

EIEC 375 Theories of Instruction in Early Childhood (3)

EIEC 455C Student Teaching (6)

EIEC 475 Curriculum Development for Young Children (4)

EIEC 478 Play and Development (3)

SpEd 425g Young Children with Special Needs (4)

Kindergarten Licensure

Licensed elementary education teachers may also qualify as a kindergarten teacher by completing the following courses and at least 8 credits of student teaching at the kindergarten level. Kindergarten student teaching must be done after PFY.

Option A: **Preferred**

EIEC 372 Art, Music, Literature for Young Children (3)

EIEC 471 Curriculum and Instruction in Kindergarten Education (4)

EIEC 474 Language Arts in Early Childhood (3)

EIEC 478 Play and Development (3)

SpEd 425 Teaching Young Children with Special Needs (4)

EIEC 455K Student Teaching: Kindergarten (8)

Option A may be used as a related field concentration with an elementary education major.

Option B:

EIEC 471 Curriculum and Instruction in Kindergarten Education (4)

EIEC 474 Language Arts in Early Childhood (3)

EIEC 455K Student Teaching: Kindergarten (8)

ELEMENTARY AND EARLY CHILDHOOD COURSES

EIEC 270 Orientation and Child Development (3)

Introduction to early childhood education. Physical, mental, emotional and social development from conception on to age six. Observation of children required. Concurrent with EIEC 273

EIEC 272 Early Childhood Curriculum (3)

Methods, materials in mathematics, social sciences, physical science, health and nutrition for the young child. Prerequisite: Ed 213, Ed 214, SpEd 220 and concurrent with EIEC 273.

EIEC 273 Practicum in Early Childhood Education (4-16)

Supervised work with young children in nursery schools/day care centers. Seminar included. Concurrent enrollment in EIEC 270, 372, or 272.

EIEC 274 Language Development of the Young Child (3)

Materials and techniques used to encourage language development in young children.

EIEC 306 Measurement and Evaluation: Elementary (2)

Construction and use of questioning techniques, teacher-made tests, and interpretations of standardized evaluation instruments. Prerequisite: Ed 200 and Ed 213, 214, SpEd 220, Ed 305 or concurrent with Ed 305.

EIEC 342(g) Comprehension Strategies (1-3)

Analysis of juvenile books emphasizing the development of comprehension strategies for cognitive and affective understanding.

EIEC 345 Foundations for Teaching Language and Reading (3) (FWS)

General introduction and overview of reading-learning process and essential components of developmental reading program. Prerequisite: Ed 200, Ed 213, Ed 214, SpEd 220

EIEC 346(g) Language Foundations for Reading Instruction (3) (FS)

Establishes a foundation of linguistic principles and language processing as basis for understanding reading as a communication process. Prerequisite: Ed 200, Ed 213, Ed 214, SpEd 220, EIEC 441 and EIEC 345.

EIEC 370 Growth and Development of the Young Child (3) (F)

Growth and development of children from conception to age six with emphasis on children in group settings. Prerequisite: Ed 214.

EIEC 371 Observing and Recording Young Children's Behavior (1) (F)

Observation, data collection and discussion of selected facets of young children's growth and development. Prerequisite: EIEC 370 taken concurrently.

EIEC 372 Art, Music and Literature for Young Children (3) (F)

Exploration of children's developmental stages in the areas of art and music. Curricular applications of art, music and literature are explored.

EIEC 373 Foundations of Early Childhood Education (4) (F)

Examination of programs for young children from sociological, psychological, and historical contents. Models, types of programs and legislation are also examined. Prerequisite: EIEC 370, 371 or concurrent registration.

EIEC 375(g) Theories of Instruction with Young Children (3) (W)

Examination of major theoretical positions on the interrelated positions of how children learn and how these assumptions are translated into instructional practices. Prerequisite: EIEC 370, 371 or concurrent registration.

EIEC 400 Independent Study in Education (1-4)

Extends study beyond regular course work. May substitute for courses in major with consent of advisor, instructor, and department chairperson. (Repeated up to 8 credits).

EIEC 420B Professional Teacher (4) (FWS)

Focuses on the study of education and the rights and responsibilities of the individual teacher within the school setting. Prerequisite: All PFY prerequisites.

EIEC 420C Child Growth and Development of Elementary School Children (2) (FWS)

Focuses on the developmental aspects of the elementary school age child as those aspects influence or affect the teaching of elementary school subject matter. Prerequisite: All PFY prerequisites.

EIEC 421B Methods in Language Arts in Elementary Schools (3) (FWS)

Provides instructional methods that will help the preservice teacher become an effective teacher of language arts. Prerequisite: All PFY prerequisites.

EIEC 421C Methods in Reading in Elementary Schools (4) (FWS)

Examines the basic skills of teaching reading grades 1-6. Includes plans for instruction, readiness, teaching phonics, work recognition skills, comprehension, and assessing reading strengths and weaknesses. Prerequisite: All PFY prerequisites.

EIEC 421E Methods in Teaching Elementary Science and Health (3) (FWS)

Content, philosophy, and organization of science/health program; methods of instruction and curricular issues. Prerequisite: All PFY prerequisites.

EIEC 421F Audiovisual: Elementary School (1) (FWS)

Introduction to audiovisual education with emphasis on the use of audiovisual media and technology in the classroom with an opportunity for limited experiences in the production of instructional materials and equipment operation. Prerequisite: All PFY prerequisites.

EIEC 421S Methods in Teaching Elementary Social Studies (3) (FWS)

Content, philosophy, and organization of social studies program; methods of instruction and curricular issues. Prerequisite: All PFY prerequisites.

EIEC 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.

EIEC 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.

EIEC 431(g) The Gifted Child (3)

Definition, identification and current school program for the mentally superior or specially talented child. Prerequisite: None.

EIEC 432(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 421g

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

Systematic study of trade books available for use with students preschool through adolescence. Includes overview of current trends, selection criteria and strategies for making literature an integral part of the curriculum. Prerequisite: Ed 200, Ed 213, Ed 214, SpEd 220.

EIEC 442(g) Curriculum Foundations (4)

Curriculum foundations and overview primarily of Language Arts, Science, and Social Studies. Designed for Special Education Teaching majors.

EIEC 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. Prerequisite: EIEC 345 or teaching experience. (Same as SpEd 446(g).)

EIEC 447(g) Reading Workshop (2)

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

EIEC 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.

EIEC 450E Student Teaching: Elementary (8) (FWS)

Supervised student teaching experience in an elementary school. Prerequisite: Admission to TEC, Ed 200, 213, 214, 305, EIEC 306, SpEd 220, all elementary methods (grade of C or better) and curriculum classes. Applications required two quarters prior to the field experience. Departmental approval needed.

EIEC 451E Student Teaching: Elementary (16) (FWS)

Supervised student teaching experience in an elementary school. Prerequisite: Admission to TEC, Ed 200, 213, 214, 305, EIEC 306, SpEd 220, all elementary methods (grade of C or better) and curriculum classes. Applications required two quarters prior to the field experience. Departmental approval needed.

EIEC 455C Student Teaching: Early Childhood (1-16)

Student teaching experience in an early childhood education center. Prerequisite: Completed early childhood major course work.

EIEC 455E Student Teaching (8-16) (FWS)

Student teaching experience to qualify for additional licensure or supplemental student teaching experience. Advisor and consent required.

EIEC 455K Student Teaching: Kindergarten (8)

Student teaching experience with five year olds. Prerequisite: EIEC 471, 474 and a completed elementary major.

EIEC 467 Practicum/Elementary Teaching (1-6) (WS)

Observation of children in a classroom setting assisting classroom teacher; teaching selected lessons under supervision. May include seminar. Can be repeated.

EIEC 469 Student Internship Program (3-16)
Opportunities for on-the-job experience. Appropriate for students with individualized majors. Prerequisite: Permission of chairperson, Junior/Senior status.

EIEC 471(g) Curriculum and Instruction in Kindergarten Education (4) (FS)

Overview of early childhood education. Required for kindergarten licensure. Prerequisite: Ed 200, 213, and junior status.

EIEC 473(g) Practicum in Early Childhood Education (3-16) (W)

Supervised practicum experience with prekindergarten children. Analysis and evaluation of classroom procedures and development of young children. Prerequisite: EIEC 470, 472, or concurrent registration with EIEC 472.

EIEC 474(g) Language Arts in Early Childhood (3) (FWS)

In-depth study of early language and literacy development and beginning reading instruction. Required for kindergarten licensure. Prerequisite: Ed 200 and Ed 214.

EIEC 475(g) Curriculum Development for Young Children (3) (WS)

Provides knowledge of curriculum approaches and instructional methods in the content areas of mathematics, science, social studies, language, reading readiness and health. Includes a 24 hour practicum. Prerequisite: EIEC 375 or consent of instructor.

EIEC 476(g) Early Childhood Education Workshop (1-3)

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

EIEC 477(g) Seminar in Early Childhood Education (1)

Day Care/Nursery School issues. Concurrent with EIEC 473(g).

EIEC 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. Prerequisite: EIEC 370, 371 or consent of instructor.

EIEC 480(g) Educational Alternatives for Learning Construction of both established and innovative educational programs.

Prerequisite: Consent of instructor.

EIEC 481(g) Issues in Education (1-3)

Seminar to examine current issues and trends in specific areas of education. Prerequisite: Consent of instructor.

EIEC 491(g) Topics in the Socio-Cultural Foundations of Education (1-5)

In-depth examinations of historical, philosophical, and cultural aspects of educational theory and practice. Prerequisite: Junior/Senior or consent of instructor. (Same as Ed 491(g))

EIEC 492(g) Impact of Education on Women (3)

Exploring the literature on sex-role stereotyping in public education. (Same as Ed 492(g))

EIEC 493(g) Education for International Understanding (3)

Objectives, techniques, and materials suitable to develop and extend intercultural empathy. Study of educational ideas and practices from other countries. (Same as Ed 493(g).)

EIEC 495(g) Comparative Education (3)

Foreign education systems, international understanding through education. Introduction to UN education agencies. (Same as Ed 495(g).)

EIEC 497(g) Readings in Education (3)

Readings and supervised study of topics in depth. On demand only. May be repeated up to 6 credits.

EIEC 504 The School and Society (3)

History and development of social structures in America; relationship between social structures and the school. (Same as Ed 504(g).)

EIEC 513 Analysis of Development Reading (3)

Literacy learning theories are studied and analyzed as basis for examining current instructional programs and practices. Prerequisite: EIEC 345 or 421C and classroom teaching experience.

EIEC 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. Prerequisite: EIEC 513 and teaching experience.

EIEC 515 Literature for Young Readers (3)

Close reading of texts from selected genres of literature for young readers (folktales, mythology, fantasy, realism, historical fiction, picture books, poetry). Informed by and emphasis upon theories of literacy criticism that provide a basis for integrating the literature curriculum, K-12. Prerequisite: EIEC 441 or equivalent.

EIEC 518 Teacher-Arranged Environment (3)

Designed for teachers to learn how to use their classroom setting as an additional instructional strategy. Participants will study and apply environmental principles to their own classrooms. Prerequisite: Teaching experience.

EIEC 522 Perception, Language & Reading (3)

Research and scholarly opinion regarding language acquisition and perception in relation to reading, learning and teaching. Examine beginning reading and current practices. Prerequisite: Teaching experience and/or consent of instructor.

EIEC 523 Special Topics in Literature for Young Readers (3)

Seminar for study of a selected topic in literature for young readers. Focus may be a genre, theme, motif, period, or specific authors or illustrators. May be repeated for a maximum of 6 credits as topics vary. Prerequisite: EIEC 441 or consent of instructor.

EIEC 524 Seminar in Reading (3)

Study of research and descriptive literature in reading. Prerequisite: Ed 502, 503, or 505 recommended.

**EIEC 530 Intro to Education Administration (3)
(F)**

Theory, principles, issues and problems involved in the execution of the school management function. (Same as Ed 530)

EIEC 531 Teacher/Student Rights (3) (S)

Examination of the legislative and judicial actions affecting teachers and students, including due process relating to exceptional children. (Same as Ed 531)

EIEC 532 Strategies for Solving School Organizational Problems (3) (W)

Examination of procedures and theories which increase skills in problem solving in school organizations. Prerequisite or concurrent: EIEC 530 (Same as Ed 532)

EIEC 533 Computer Utilization in Classrooms (3) (F)

Exploration of computer equipment, operation, means of communication with computers, instructional use and impact of computers in society. Prerequisite: EIEC 530. (Same as Ed 530)

EIEC 534 School Finance (3)

Study of local, state and federal revenue systems to support public education. Tax theory, budgetry and accounting procedures. Prerequisite: EIEC 530 or concurrent with EIEC 530. (Same as Ed 534)

EIEC 535 The Process of Supervision (6)

Specific techniques and systems to supervise instruction. Interpersonal communication and group process skills are applied to administrative supervision. Prerequisite: EIEC 530. (Same as Ed 535)

EIEC 536 Supervisory Theories (3)

A study of management models and techniques for supervisors to systematically improve instruction in a variety of organizational climates. Prerequisite: EIEC 530 and EIEC 535. (Same as Ed 536)

**EIEC 537 Curriculum Theory and Principles (3)
(W)**

Examination of principles, contemporary theories and change process alternatives as they impact on the school education program. (Same as Ed 537)

EIEC 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.

EIEC 541 Developments in Elementary Education (3)

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

EIEC 542 Elementary School Curriculum (3)

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

EIEC 543 Administration of the Elementary School (3) (S)

An investigation into an administration's responsibilities, practices and problems in all aspects of leadership in elementary school. Prerequisite: EIEC 530 and 542.

EIEC 544 Middle School/Junior High School Administration (3)

Organization and administration of educational programs for young adolescents. Prerequisite: EIEC 530 and 542 or Ed 538. (Same as Ed 544)

EIEC 545 Diagnosis and Correction of Reading Difficulties (3)

Advanced study of reading difficulties. Prerequisite: EIEC/SpEd 445.

EIEC 546 Reading Clinic: Diagnosis (2)

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

EIEC 581 Legal Aspects of Education (3) (F)

Study of legal authority of the public school; legal problems facing school personnel. Prerequisite: EIEC 531 and Master's degree or equivalent. (Same as Ed 581)

EIEC 582 School Management and Decision-making (3) (W)

Examination of needs assessment, goal setting, planning and evaluation systems, management systems, management by objective plans and decision-making procedures. Prerequisite: EIEC 532 and Master's degree. (Same as Ed 582)

EIEC 583 Computer Data Management and Decision-making (3)

Effective computer applications, the computer as a decision-making planning tool, opportunities and problems presented by a computer. Prerequisite: EIEC 533 and Master's degree. (Same as Ed 583)

EIEC 584 School Personnel Administration (3) (W)

Study of personnel administration. Examination of the purposes, policies, plans, procedures and processes of personnel administration. Prerequisite: EIEC 536 and Master's degree. (Same as Ed 584)

EIEC 586 School Plant Planning and Maintenance (3) (S)

Principles in planning, construction and maintenance of school buildings, visitation and appraisal of buildings. Prerequisite: EIEC 543 and Master's degree. (Same as Ed 586)

EIEC 588 School Business Management (3) (W)

School business administration of insurance, transportation, food services, purchasing, inventory control, budgeting procedures, state and federal accounting and personnel. Prerequisite: EIEC 534 and Master's degree. (Same as Ed 588)

EIEC 589 School Community Relations (3) (F)

Purposes, organization, agencies and criteria of good school-community relationships; knowledge and techniques of public relations. Prerequisite: EIEC 543 and Master's degree. (Same as Ed 589)

EIEC 594 Practicum in Administration (1-9) (FWS)

Supervised field experiences in various areas in education administration. Seminar and projects required; Master's Degree and courses in related areas required.

EIEC 595 Special Problems (1-3)

Individual exploration of topical area through field placement, reading or research.

EIEC 597 Individual Study in Education (1-3) (FWS)

Independent research for advanced graduate students. Repeated to a maximum of 6 credits. Prerequisite: Consent of instructor and advisor.

EIEC 598 Seminar in School Administration and Supervision (1-6)

Special topics seminars for practicing or potential administrators and supervisors. Consent of instructor. May be repeated. (Same as Ed 598)

EIEC 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.

Energy Management Hagen 302, (218) 236-2104

Director: Hameed G. Nezhad

The Energy Management Program is a multidisciplinary program offering a Bachelor of Science degree in Energy Management with a concentration in an existing field such as marketing, accounting, finance, management, economics, political science, computer science, geology, international business, public relations or industrial technology. A student may also create a concentration area of his/her choice. Such a concentration must be approved by the Director of the Energy Management program.

Graduates of this program, who will be among the pioneers in this field, are in demand by: electric utility companies; manufacturing and distributing companies involved in the production and marketing of energy products; energy companies involved in the exploration, production, distribution and marketing of oil, natural gas, coal and alternative energy resources; governmental agencies dealing with energy and environmental programs; and energy consulting firms.

ENERGY MANAGEMENT CURRICULA

Major in Energy Management B.S. Degree Energy Core Requirements (32 credits)

EMgt 200 Introduction to Energy and the Environment (4)

EMgt 310 Principles of Heat Transfer (2)

EMgt 320 Heating, Ventilation and Air Conditioning Systems (2)

EMgt 340 Energy Management and Control Systems (4)

EMgt 400 Energy Auditing and Accounting (4)

EMgt 420 Alternative Energy Technologies (4)

EMgt 440 Global Energy and Environmental Issues (4)

EMgt 470 Special Topics in Energy Management (4)

EMgt 480 Energy Resource Planning (4)

Business Core Requirements (26 credits)

Acct 229-230 Principles of Accounting I-II (8)

Acct 200 Introduction to Legal Systems (2)

Fin 340 Corporate Finance (4)

Mgmt 360 Principles of Management (4)
Mgmt 450 Production/Operations Management (4)
Mktg 310 Principles of Marketing (4)

Requirements in Related Fields (65-66 credits)

Biol 103 Humanity and the Ecosystem (4)
Chem 111-112 General Chem I-II (8)
Chem 111L-112L General Chem Lab I-II (2)
CIS 145 Business Data Processing (4)
Econ 202, 204, 206 Principles I (micro), II (macro), III (international) (12)
Engl 287 Technical Report Writing (4)
Math 273 Linear Algebra/Applied Calculus (4)
Math 274 Intro to Statistics I (4)
Math 275 Intro to Statistics II (4)
Phys 111-112-113
Elementary Physics I-II-III (9)
Phys 111L-112L-113L
Elementary Physics Lab I-II-III (3)
Pol 120 National Govt (4)
Spch 100 Beginning Speech Communication (4)
or Spch 210 Effective Business Speaking (3)
Area of Concentration (20 credits)

A concentration is determined by one or more departments. A student may also create a concentration of his/her choice. Such a concentration must be approved by the director of the Energy Management Program.
Free Electives (25-26 credits)

ENERGY MANAGEMENT COURSES

EMgt 200 Introduction to Energy and the Environment (4) (FS)

An overview of energy resource management including the availability and utilization of present and future energy resources, and basic concepts of energy efficiency with emphasis upon current practices, future potential and ultimate limitations.

EMgt 300 Geology of Energy Resources (4)

Introduction to the geology of fossil fuels, nuclear fuels, and geothermal energy. Also includes an introduction to methods of exploration for energy resources. Prerequisite: Chem 112.

EMgt 310 Principles of Heat Transfer (2) (F)

Principles of heat transfer by conduction, free and forced convection, and radiation. Prerequisite: Phys 113.

EMgt 320 Heating, Ventilation and Air Conditioning Systems (2) (W)

Application of heat transfer principles to heat transfer equipment such as boilers, heating, ventilation and air conditioning systems. Prerequisite: EMgt 310.

EMgt 340 Energy Management and Control Systems (4) (S)

An introduction to energy management control systems. Topics include principles of electricity and electronics, sensors, controllers, and microprocessor-based Energy Management and Control Systems devices. Prerequisite: Phys 113.

EMgt 400 Energy Auditing and Accounting (4) (W)

An analysis of the energy flow of a system such as a building or a plant facility to determine where, how much, and how well energy is being used and to find alternative ways for improving energy efficiency of the system. Prerequisites: Acct 230 and EMgt 320.

EMgt 420 Alternative Energy Technologies (4) (S)

An in-depth examination of energy technologies including direct and indirect solar energy, coal, nuclear energy, energy conversion, energy storage and energy conservation technologies. Prerequisites: EMgt 320 and EMgt 340.

EMgt 440 Global Energy and Environmental Issues (4) (F)

A comprehensive study of the present and future world energy resources, production, consumption, trade and policies with an emphasis on the nature and causes of global energy and environmental problems. Prerequisite: EMgt 200, or consent of instructor.

EMgt 470 Special Topics in Energy Management (4) (Fws)

This course is designed to permit students and a professor to pursue a specialized interest in an area of energy management, e.g., energy marketing, energy economics, energy and society, energy policy, energy finance, energy modeling, etc. Prerequisite: Consent of instructor.

EMgt 480 Energy Resource Planning (4) (S)

Processes and methods for planning and problem solving in the management of energy resources in both the public and private sectors. Prerequisites: EMgt 440 and Mgmt 450 or consent of instructor.

Engineering

Hagen 107, (218) 236-2240/2480

Chair: Ronald Williams

Faculty: Ruth Downs

Moorhead State University offers a pre-engineering program constituting the first two years of study for an engineering degree. The curriculum is so designed that,

upon satisfactory completion, a student may transfer to a college of engineering as a third year student.

The program may be modified or augmented by enrollment in engineering courses at North Dakota State University through the MSU-NDSU "Covered Programs."

Adjustments in the curriculum also can be made to conform to requirements of those schools where the students will eventually complete their degrees. Pre-engineering students should work closely with their advisor in planning courses of study.

PRE-ENGINEERING CURRICULA (96-108 credits)

Engl 101-102 Freshman Composition (8)
Engl 287 Technical Report Writing (4)
Math 231-232-233-234 Calculus I-II-III-IV (16)
Math 327 Linear Algebra (4)
Math 331 Differential Equations (4)
Chem 111-112 General Chemistry I-II (8)
Chem 111L-112L or 111H-112H Gen Chem Lab
Phys 200-201-202 General Physics I-II-III (15)
Eng 130 Engineering Orientation and Computation (3)
Eng 210 Engineering Design (3)
or Eng 113 Engineering Graphics (4)
Eng 243 Engineering Mechanics I - Statics (4)
Eng 244 Engineering Mechanics II - Dynamics (4)
Eng 245 Engineering Mechanics III - Materials (4)
Eng 291 Materials Inspection/Testing (1)
Approved Electives (17-29)

ENGINEERING COURSES

Eng 113 Engineering Graphics I (4) (Fws)
Principles and applications of graphical communication and analysis. Content includes geometric construction, multiview drawings, dimensioning, auxiliary views and computer-aided drafting.

Eng 130 Engineering Orientation and Computation (3) (F)

Introduction to engineering fields, tools and methods for numerical computation, graphic solutions in engineering. Prerequisite: Consent of instructor.

Eng 200 Surveying I (3-6) (S)

Use and adjustment of surveying instruments; measurements by tape, electronic, and stadia methods; topographic surveying; coordinate systems. Three lectures and three 3-hour laboratories weekly.

Eng 210 Engineering Design (3) (W)

Introduction to the design process emphasizing creativity, cooperation and understanding of an orderly approach to all design problems. Evaluation of technical sketches and working drawing supported by written, oral and computer presentation.

Eng 211 Engineering Communications (1-3)

Study of and participation in graphic, oral and written communication.

Eng 214 Descriptive Geometry (4) (s)

Fundamental principles of orthogonal projection, true length lines, angles between planes, development of surfaces, and intersection of solids.

Eng 223 Statics for Technologists (4) (f)

Elementary principles of statics utilizing algebra, trigonometry, and analytical geometry. Material includes force vectors, static equilibrium, simple structures, friction effects, centroids. Will not transfer to engineering programs. Prerequisite: Math 121 and Math 133.

Eng 225 Strengths of Materials for Technologists (4) (w)

Elementary principles of strengths of materials utilizing algebra, trigonometry, and analytical geometry. Material includes stress and strain, torsion, shear and bending, beam design, deflections, combined stresses. Will not transfer to engineering programs. Prerequisite: Eng 223.

Eng 230 Manufacturing Processes (3) (F)

This course is designed to provide the student with a broad background in the industrial processes, materials and machines that are common to all manufacturing related industries. Both traditional and non-traditional processes are covered.

Eng 231 Welding Processes (3) (S)

An introduction to welding processes, safety, energy sources for welding, metallurgy, materials, equipment study, weld inspection and testing, weld symbols and blueprint reading.

Eng 232 Machining Processes (3) (Ws)

Course content includes a study of production techniques using saws, drilling machines, lathes, mills, grinders, the punch press and the press brake. Laboratory exercises involve the development and use of production fixtures, stops, drill jigs and positioners.

Eng 243 Engineering Mechanics I - Statics (4) (Fw)

Vector algebra. Application of equations of equilibrium to the analysis of simple engineering structures and machines. Nature and influence of friction. Elementary theory of statically determinate framed structures. Prerequisite: Math 231.

Eng 244 Engineering Mechanics II - Dynamics (4) (fS)

Principles of kinematics, particle systems and plane rigid bodies, and vector calculus in solving problems. Prerequisite: Eng 243.

Eng 245 Engineering Mechanics III - Materials (4) (W)

Application to problems of stress and strain at a point, stress-strain relations in two dimensions, linear theory of torsion, bending stresses, deflection of determinate and indeterminate beams and instability. Prerequisite: Eng 243.

Eng 291 Materials Inspection and Testing (1-2) (Ws)

A study of methods, materials and techniques of inspection and testing of industrial materials and products; quality control.

English Department

Weld 216, (218) 236-2235

Chair: Alan Davis

Faculty: Rufus Bellamy, Charles Bense, John Bremer, Sheila Coghill, Marjorie Corner, Daniel Deneau, John Early, Laura Fasick, Susan Gebhardt-Burns, Margaret Goscilo, Sheila Gullickson, Allan Hanna, Patricia Hansen, Karen Hohne, Jan Huesgen, Gordon Jackson, Gary Litt, David Mason, Elizabeth Moraghan, Sandra Pearce, Robert Pender, Mary Pryor, Hazel Retzlaff, SuEllen Shaw, John Sherman, Donald Short, Rosemary Smith, Keith Tandy, Marie Tarsitano, Mark Vinz, William Woolwine, Richard Zinober

ENGLISH CURRICULA

Requirements for majors, dual majors, and minors in English are set forth in detail below. Anyone who wishes to major or minor in English must see the chairperson and be assigned an advisor. Because of the significant number of electives permitted by the department, English majors and minors must consult their advisors each quarter in order to plan programs which will be both academically respectable and personally satisfying. Students who wish to set up individualized majors including English courses (for instance, Comparative Literature or language studies) should consult the chairperson.

The B.A. and B.S. (teaching) programs presently have similar core requirements; but among other differences, the B.S. program includes course work prescribed by the State Board of Education for a teaching major in English on the secondary level. Students who intend to pursue graduate study are advised to take more than the minimum number of 300 and 400-level courses. They are also advised to make themselves proficient in at least one foreign language.

Effective Fall 1991, only English courses in which a student has earned C or higher will be accepted to fulfill requirements within the major.

Major in English B.A. Degree (68 credits)

Core Requirement (28 credits)

Engl 211-212-213 Major British Writers I-II-III (12)

Engl 371-372-373 American Literature Survey I-II-III (12)

Engl 314 Shakespeare (4)

Electives in English (36 credits)

A student may emphasize Literature or Writing. See below.

Emphasis: **Literature**

Group A:

Engl 301, 302, 303, 304: minimum of 4 credits

Group B:

Engl 305, 306, 307, 340 (British novel): minimum of 4 credits.

The Department of English may designate other courses, before they are offered, as acceptable in each group.

American Literature, 300-level course: minimum of 4 credits

400-level courses: minimum of 8 credits, each of the two required courses from a different national literature (American, British, Continental)

Additional electives: 16 credits, a minimum of 8 in literature at the 300-400 level.

Emphasis: **Writing**

Engl 285, 286, 287, 288, 354, 355, 388, 488, 469 (maximum of 8 credits for 469):

minimum of 18 credits

Literature, 300 or 400-level

(at least one course British and one American):

minimum of 12 credits

Additional electives: up to 6 credits.

Major in English B.S. Degree (Teaching) (68 credits)

Core Requirement (28 credits)

Engl 211-212-213 Major British Writers I-II-III (12)

Engl 371-372-373 American Literature Survey I-II-III (12)

Engl 314 Shakespeare (4)

Electives in English (16 credits)

300 or 400-level: minimum of 8 credits

400-level: minimum of 4 credits

Additional elective: 4 credits

Courses Required for Teaching Certification (24 credits)

Engl 280 Literature: East and West (4)

Engl 365 Language and Learning (4)

Engl 391(g) Teaching English in Secondary Schools (4)

Engl 392(g) Teaching Adolescent Literature and Reading (4)

Engl 393(g) Grammars of English (4)

Engl 394 Advanced Composition (4)

Related Requirement (8)

Spch 100 Beginning Speech Communication (4)

Spch 105 Beginning Oral Interpretation (4)

All Teacher Education Requirements must be fulfilled to complete this major. See Teacher Education Requirements under Secondary Education.

Dual Major in English and Speech Communication/Theatre Arts B.S. Degree (Teaching)

Major requirements in English (64 credits)

Core Requirement (28 credits)

Engl 211-212-213 Major British Writers I-II-III (12)

Engl 371-372-373 Survey of American Literature I-II-III (12)

Engl 314 Shakespeare (4)

Electives in English (12 credits)

Electives, 300 or 400-level: minimum of 8 credits; one course in literature recommended.

Additional elective: minimum of 4 credits.

Courses Required for Teaching Certification (24 credits)

Engl 280 Literature: East and West (4)

Engl 365 Language and Learning (4)

Engl 391(g) Teaching English in Secondary Schools (4)

Engl 392(g) Teaching Adolescent Literature and Reading (4)

Engl 393(g) Grammars of English (4)

Engl 394 Advanced Composition (4)

Major Requirements in Speech Communication/Theatre Arts (54 credits)

Spch 100 Beginning Speech Communication (4)

Spch 101 Voice and Diction (4)

Spch 105 Beginning Oral Interpretation (4)

Spch 202 Introduction to Rhetoric (4)

Spch 204 Principles of Debate (4)

Spch 220 Theatre Form and Appreciation (4)

Spch 222 Principles of Acting (4)

Spch 224 Technical Theatre Methods (4)

Spch 280 History of the Film (4)

Spch 312 Principles of Persuasion (3)

Spch 340(g) The Teaching of Speech (4)

Spch 344(g) Principles of Play Direction (4)

SLHS 101 Introduction to Speech, Language, and Hearing Sciences (3)

Electives in Speech Communication or Theatre Arts at 300 level or above (4)

To satisfy the requirements of the State Board of Education for secondary certification with a major in Speech Communication-Theatre Arts, students must participate in at least two speech activities: forensics, theatre, oral interpretation, or broadcasting.

All Teacher Education Requirements must be fulfilled to complete this major. See Teacher Education Requirements under Secondary Education.

Dual Major in English and Mass Communications B.A. Degree (100 credits)

Major Requirements in English (56 credits)

Core Requirement (28 credits)

Engl 211-212-213 Major British Writers I-II-III (12)

Engl 371-372-373 Survey of American Literature I-II-III (12)

Engl 314 Shakespeare (4)

Writing Requirement (8 credits); two courses chosen from the following:

Engl 285 Writing for Film and Television (4)

Engl 286 Practical Writing (4)

Engl 287 Technical Report Writing (4)

Engl 288 Introduction to Creative Writing (4)

Engl 354 Non-Fiction Writing (3)

Engl 355 Advanced Technical Report Writing (4)

Engl 388 Creative Writing (3)

Electives in English (20 credits)

At least 12 credits at 300 or 400 level, including one course in American literature and one course in British literature. Electives in English should be chosen in close consultation with an advisor in the Department of English.

Major Requirements in Mass Communications (44 credits)

Core Requirements (24 credits)

MC 100 Introduction to Mass Communications (3)

MC 175 Desktop Publishing (3)

MC 205 Media Writing (3)

MC 230 Communications Photography I (3)

MC 305 Reporting (4)

MC 420 Mass Media: Ethics and Issues (4)

MC 440 Communications Law (4)

Electives in Mass Communications (20 credits)

Electives in Mass Communications should be chosen in close consultation with an advisor in the Department of Mass Communications.

Note: The dual major does not require completion of the distributional requirements of the Mass Communications major; however, it does require completion of the university's liberal arts requirement (64 credits).

B.A. Minor in English (35 credits)

Core Requirements (20 credits)

Engl 211-212-213 Major British Writers I-II-III (8 credits, two of the three courses)

Engl 371-372-373 Survey of American Literature I-II-III (8 credits, two of the three courses)

Engl 314 Shakespeare (4)

Electives in English (15 credits)

One course British Literature 300 or 400-level (4 credits)

One course American Literature 300 or 400-level (4 credits)

Additional electives (7 credits)

B.S. Minor in English (Teaching) (52 credits)

Core Requirements (28 credits)

Engl 211-212-213 Major British Writers I-II-III (12)

Engl 371-372-373 Survey of American Literature I-II-III (12)

Engl 314 Shakespeare (4)

Courses Required for Teaching Certification (24 credits)

Engl 280 Literature: East and West (4)

Engl 365 Language and Learning (4)

Engl 391(g) Teaching English in Secondary Schools (4)

Engl 392(g) Teaching Adolescent Literature and Reading (4)

Engl 393(g) Grammars of English (4)

Engl 394 Advanced Composition (4)

Minor in English, Writing (to accompany B.A. or B.S. Degree) (28 credits)

Writing Requirement, at least 15 credits chosen from the following:

Engl 285 Writing for Film and Television (4)

Engl 286 Practical Writing (4)

Engl 287 Technical Report Writing (4)

Engl 288 Introduction to Creative Writing (4)

Engl 354 Non-Fiction Writing (repeatable) (3)

Engl 355 Advanced Technical Report Writing (4)

Engl 388 Creative Writing (repeatable) (3)

Engl 488(g) Advanced Creative Writing (1-3)

Engl 469 Internship (2-16) (maximum of 4 hours

applicable to the Writing Minor)

Electives (at least 8 credits)

Electives should be chosen in close consultation with a Minor Advisor assigned by the Department of English. Each student completing the minor is encouraged to assemble a portfolio of writing samples to present to prospective employers.

ENGLISH COURSES

Engl 090 Basic Grammar (1)

Instruction and tutoring in basic writing skills. Open to any student; may be required of students judged likely to need special assistance in English 101. Offered only Pass/Fail; repeatable only by students who fail. Credit not applicable toward graduation, liberal arts, major or minor. Students required to enroll in 090 must pass it, as well as 101, before entering 102.

Engl 101-102-103 Composition and Literature I-II-III (4 each) (FWS)

101: Numerous written assignments and readings in essays and/or short fiction; general introduction to the use of the library. 102: Composition and literature (drama and novels); emphasis on expository and argumentative writing. 103: Composition and literature (poetry). 101 is prerequisite to 102 and 103.

Engl 111-112-113 Composition and Literature for Non-Native Speakers I-II-III (4 each) (FWS)

Reading and writing of expository prose; introduction to American culture through literature; review of English grammar, vocabulary study, English for academic uses. Restricted to non-native speakers, who must take the course unless exempted by the department upon recommendation of the instructor; if exempted, students may enter 101-103. 111-112-113 fulfill Freshman English requirement.

Engl 192-193 Literature and Critical Writing II-III (4 each) (WS)

Close reading of literary masterpieces. Enrollment in 192 restricted to those who have excelled in 101; enrollment in 193 restricted to those who have completed 192 or who have excelled in 102. 192 and 193 satisfy Freshman English requirement.

Engl 195 Effective Reading (4)

Various techniques to improve the student's reading efficiency and speed. Instruction in writing essay examinations, taking notes, and improving study skills.

The following 200, 300, and 400-level courses are intended primarily for sophomores, juniors, and seniors respectively. The Major British Writers sequence, English 211-212-213, is intended primarily for English majors and minors; other 200-level courses are appropriate for non-majors who have completed Freshmen English. Before registering for any of the following courses, students should consult their advisors and read the course descriptions posted and circulated each quarter by the Department of English. These descriptions will give specific information about requirements and emphases.

Courses marked with an asterisk may be repeated, with consent of instructor, when authors and topics vary.

Engl 211 Major British Writers I (4) (F)

Selected major writers through Donne. Some attention to literary criticism and research techniques.

Engl 212 Major British Writers II (4) (W)

Selected major writers, Milton through Romantics. Some attention to literary criticism and research techniques.

Engl 213 Major British Writers III (4) (S)

Selected major writers, Victorians and Moderns. Some attention to literary criticism and research techniques.

Engl 214 Introduction to Shakespeare (4)

A study of representative plays and poems.

Engl 230* Individual Authors (4)

Study of one or two major or influential authors.

Engl 232 Film and Novel (4)

Comparative analysis of major novels and their screen adaptations. Focus on aesthetic and interpretative similarities and differences. (Same as Spch 282)

Engl 234 Mythology (4)

Introduction to the great myths of Greece and Rome and their influence upon later literature.

Engl 240* Masterworks (4)

Extensive reading in a particular literary genre—novel, drama, or poetry.

Engl 241* Modern American Literature (4)

Selected major figures of 20th-century American Literature.

Engl 246 Women in Literature (4)

A study of the various ways women are depicted in imaginative literature and expository prose. Readings vary.

Engl 248 Introduction to American Ethnic Literature (4)

Significant writers and selected works representing several minority ethnic backgrounds, including African, Asian, Hispanic, and Native American.

Engl 280 World Literature: East and West (4)
(W)

Selected writers or literary traditions in world literature with at least one-third of the course focusing on non-Western literature.

Engl 281 World Literature (4)

Selected writers or literary traditions in Western world literature.

Engl 285 Writing for Film and TV (4)

Techniques and approaches to writing scripts for film and television: dramatic stories, factual and thematic documentaries, adaptations from other sources, animation and advertising. Students will analyze scripts and write short scripts to be analyzed and evaluated. Prerequisite: Engl 101-102-103 or equivalent.

Engl 286 Practical Writing (4) (FWS)

Study and practice in writing non-literary material linked to the experiences of daily life and to practical career situations. Includes an introduction to the practice of non-fiction writing.

Engl 287 Technical Report Writing (4) (FWS)

Expository writing dealing with scientific subjects and planned for a specialized audience: documenting, writing abstracts, preparing reports of original investigations. Prerequisite: Engl 101-102-103 or equivalent; recommended for juniors or above.

Engl 288 Introduction to Creative Writing (4)
(FWS)

Practice in the writing of poetry, short fiction, or drama.

Engl 290* Special Topics (4)

Study of a particular literary topic: special approaches or procedures related to the study of language or literature.

Engl 301* Medieval British Literature (4)

Study of selected major authors and works, sometimes in comparison with European counterparts, exclusive of Chaucer.

Engl 302* 16th-Century British Literature (4)

Study of selected major authors from More through the lyricists of the 1590s.

Engl 303* 17th-Century British Literature (4)

Study of selected major authors from Donne and Jonson to Browne.

Engl 304* Restoration and 18th-Century British Literature (4)

Study of selected major authors from Dryden to Dr. Johnson.

Engl 305* The Romantic Movement (4)

Study of selected authors from Burns to Keats.

Engl 306* The Victorian Period (4)

Study of selected major authors from Carlyle to Hardy.

Engl 307* 20th-Century British Literature (4)

Study of selected major British authors from the 1890s to the present.

Engl 308* 19th-Century American Literature (4)

Study of selected major American authors of the 19th century.

Engl 309* 20th-Century American Literature (4)

Study of selected major American authors of the 20th century.

Engl 314* Shakespeare (4) (FWS)

Study of selected plays and poems. When the works vary, students may repeat course.

Engl 330* Individual Authors (2-4)

Intensive study of one or two significant authors.

Engl 340* Genre Studies (4)

Extensive reading in a particular literary genre—short story, novel, poetry, drama, or epic.

Engl 343-344-345 Development of Drama I-II-III (4 each)

Representative readings in dramatic literature from Greek theatre to the present day. 343: Greek and Roman tragic and comic playwrights, Aristotelian criticism, and classical theatre history. 344: Early native farce, religious drama, and the drama and theatrical innovations of the Renaissance through the 18th century. 345: The drama of the modern era, beginning with the 19th century Romantics, viewed as a revolutionary, cultural, political and artistic force. (Same as Spch 322-324-326)

Engl 350 Practical Criticism (4)

Practice in critical evaluation of literary works.

Engl 354* Non Fiction Writing (3)

Writing of non-fiction prose; partly a dialogue on the form and theory of non-fiction, but mainly a workshop centered on the practice of non-fiction writing.

Engl 355 Advanced Technical Report Writing (4)

Process-oriented writing class focuses toward a formal feasibility study and/or formal grant proposal, requiring a consultant in the student's major discipline; emphasizes work in communication theory, documentation style, abstracts, business ethics, case studies, and annotated bibliographies.

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)

A survey of the early history of the English language, its sounds and its grammar, emphasizing Old English and its literature or Middle English and its literature.

Engl 364 American English (4)

A survey of American dialects—both regional and social—their characteristics, origins, causes and development, including Chicano and Black English.

Engl 365 Language and Learning (4) (S)

An interdisciplinary approach to theories of language development, and language as a mode of learning. Prerequisite: Engl 101-102-103, Engl 394 or consent of instructor.

Engl 371 Survey of American Literature I (4) (F)

Historical and critical study of American Puritanism, Nationalism, and Romanticism; may include such authors as Anne Bradstreet, Jonathan Edwards, Benjamin Franklin, Ralph Waldo Emerson, Nathaniel Hawthorne, Edgar Allan Poe, and Herman Melville.

Engl 372 Survey of American Literature II (4) (W)

Historical and critical study of American Realism and early Modernism; may include such authors as Walt Whitman, Emily Dickinson, Mark Twain, Henry James, Stephen Crane, Theodore Dreiser, and Sinclair Lewis.

Engl 373 Survey of American Literature III (4) (S)

Historical and critical study of the modern American renaissance in poetry and fiction; may include such authors as Robert Frost, T.S. Eliot, Ezra Pound, William Carlos Williams, Wallace Stevens, F. Scott Fitzgerald, Katherine Ann Porter, Ernest Hemingway, Willa Cather and William Faulkner.

Engl 380* World Literature (4)

Study of selected world masterpieces grouped by theme or genre.

Engl 381-382-383 Scandinavian Literature I-II-III (4 each)

381: The older literature of Scandinavia. 382: Ibsen and Strindberg. 383: The Modern Scandinavian novel. (Same as Scan 381-382-383)

Engl 388* Creative Writing (3)

The writing of poetry, short fiction, plays, or film. Partly a dialogue on contemporary writing, but mainly workshop. Students may repeat this course.

Engl 390* Special Topics (2-4)

Study of a particular literary genre, topic, or theme.

Engl 391(g) Teaching English in Secondary Schools (4)

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)

Review of current trends in adolescent and young adult 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 the history of language study, of the history of the English language, and of the various kinds of grammars: traditional, structural, and transformational.

Engl 394 Advanced Composition (4) (F)

Principles of clear and effective writing, elements of the writing process, research and methods in teaching, responding to, and evaluating writing. Prerequisite: Engl 101-102-103 or equivalent.

Engl 410(g)* Studies in British Literature (4)

Study of selected topics, movements, or genres.

Engl 411 Chaucer (4)

Study of selected major works and their background.

Engl 412 Spenser (4)

Study of selected major works and their background.

Engl 416 Milton (4)

Study of selected major works and their background.

Engl 430(g)* Individual Author (4)

Intensive study of selected works of one author.

Engl 450(g)* Critical Traditions (4)

Principal works of literary aesthetics and criticism from selected periods in history.

Engl 469 Internship—Writing (2-16) (FWS)

Supervised employment requiring substantial writing practice in government or private agency. Repeatable up to a total of 16 credits. All credits apply toward graduation, but only four may count toward a major or minor in English. Eight credits accepted toward the B.A., Writing Emphasis.

Engl 480(g)* Advanced World Literature (4)

Intensive study of selected world masterpieces from one language, in translation.

Engl 488(g)* Advanced Creative Writing (1-3)

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.

Engl 492(g) Transformational Grammar (4)

An introduction to a theory of grammar that describes and explains how sentences are created.

Engl 495(g) Advanced Study in Language or Literature (3-4)

Study of selected topics, individual authors, genres or movements in linguistics or in American, British or world literature. The course may be offered as a seminar, as an independent study, or as an adjunct to another class taught by the same instructor. Repeatable when subject matter varies. Consent of instructor required for graduate credit.

Engl 498(g) Tutorial (1-3)

The consideration of various problems in literature or language agreed upon by the instructor and the student.

Finance

See *Business Administration for Curricula*.

FINANCE COURSES**Finc 320 Money and Banking (4)**

Same as Econ 320.

Finc 321 Banking Policy (4) (Ws)

Examination of interbank relationships and contemporary developments in banking administration. Prerequisite: Finc 320.

Finc 340 Corporate Finance (4) (Fws)

Analysis of methods used to manage assets, liabilities and investments. Prerequisites: Acct 231, Math 273, 274, 275, and junior standing.

Finc 350 Public Finance (4)

Same as Econ 350.

Finc 351 Risk Management (4) (F)

Survey of risk management principles and the management of property and liability insurance coverage. Prerequisite: Acct 300 or consent of instructor.

Finc 352 Life and Health Insurance (4) (F)

A study of insurance policies, pension plans and financial planning tools for individuals and business concerning life and health risk.

Finc 353 Financial Planning (Seminar) (4) (S)

A review of current literature concerning personal financial planning with case studies. Prerequisites: Finc 351 and Finc 352.

Finc 354 Real Estate Investments (4) (Fs)

Fundamentals of purchasing, managing and financing real estate. Prerequisite: Finc 340.

Finc 406(g) Small Business Management Consulting (2) (Fws)

Practicum in providing management assistance to small business. Can be taken two quarters consecutively for a total of 4 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.

Finc 440 Intermediate Finance (4) (Ws)

Designed for non-finance majors to permit study of topics appropriate to business financial decisions. Prerequisite: Finc 340.

Finc 441 Advanced Corporate Finance (4) (Fs)

Advanced and current topics in corporate finance for finance majors. Prerequisite: Finc 340.

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) (Fs)

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. Prerequisite: Econ 206, Finc 340.

Finc 456(g) Principles of Investment (4) (Fw)

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) (Fw)

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 469 Student Internship (3-12)

Prerequisite: Junior standing.

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.

French

See Languages for curricula and courses.

**Geography-Geology Department
Lommen 90, (218) 236-2241**

Chair: Roger L. Richman

**GEOGRAPHY-GEOLOGY CURRICULA AREAS
OF STUDY: Geography, Geology**

Minor in Geography (30-32 credits)

Geog 110 Introductory Physical Geography (4)

Geog 111 World Regional Geography (4)

Geog 220 Economic Geography (4)

Geog 225 Conservation (4)

Geog 310 United States and Canada (4)

Electives in Geography (10-12 credits)

One course in Regional Geography

One course in Systematic Geography

Minor in Earth Science (Teaching) This program is under revision. Please see department chair.

(This minor can be awarded only in combination with at least one teaching major.)

GEOGRAPHY COURSES

Geog 100 Introduction to Geography (4)

Basic framework for understanding geography through examining various parts of this academic discipline and applied science.

Geog 110 Introductory Physical Geography (4)

Basic elements of geography including weather and climate, vegetation, soils and landforms.

Geog 111 World Regional Geography (4)

Problems of man's relation to the land and the interrelation of regions. Prerequisite: Geog 110.

Geog 112 Cultural Geography (4)

Diffusion of innovation, environmental perceptions, and cultural diversity of people in different parts of the world.

Geog 130 Introduction to the Field of Planning (2)

Foundation for understanding the planning process, and the different approaches to planning, and tools of the planner.

Geog 220 Economic Geography (4)

The geography of man's economic activities, including agriculture, mining, manufacturing and trade.

Geog 225 Conservation (4)

Environmental problems such as food supplies, energy resources, air and water pollution and wildlife habitat.

Geog 235 Geography of Minnesota and North Dakota (3)

Survey and analysis of the physical and cultural environments of Minnesota and North Dakota.

Geog 241 Elementary Meteorology (4)

The basic elements of weather: temperature, pressure, condensation and precipitation, air masses and fronts, vorticity and jet streams and storms. Prerequisite: Geog 110.

Geog 300 Geomorphology (4)

Regional survey of landforms of United States, with attention given to classic problems in geomorphic interpretation. Prerequisite: Geog 110 or consent of instructor.

Geog 310 United States and Canada (4)

Regional survey of United States and Canada with emphasis on regional contrasts and interrelationships. Prerequisite: Geog 110, 111, or consent of instructor.

Geog 485 Earth Science Teaching Methods (1)

Curriculum review, objectives, methods, materials, and evaluation used in the earth science program. Prerequisite: Sci 440 or concurrent with Sci 440.

Geog 490(g) Special Problems in Geography (1-4)

Individualized work for advanced students involving reading in geography and special writing projects utilizing the geographic approach. Prerequisite: Consent of instructor.

GEOLOGY COURSE

Geol 115 Physical Geology (4)

A survey of the physical nature and properties composing the earth, distribution of materials, and the processes of earth formation.

German

See Languages for curricula and courses.

Gerontology

The Gerontology Minor is a multi-departmental program designed to complement majors in fields where professional responsibilities involve, directly or indirectly, older people. Individual flexibility and a liberal arts foundation are the basis for the selection of courses in the program. Some courses from the Tri-College University are included to provide a greater number of options in addition to MSU offerings. Consult Department of Sociology for Advising.

Minor in Gerontology (32 credits)

Required Courses (20 credits)

Soc/SW 308* Introduction to Gerontology

Psy 403 Adulthood and Aging (4)

Hlth 301 Health Aspects of Aging (4)

Anth 302 Cultural Aspects of Aging (4)

SW 409 Social Policies and Services for the Elderly (4)

Electives (12 credits)

Choose 3 courses:

Phil 211 Morals and Medicine (4)

CDFS 461 The Elderly Consumer (4)

NDSU CDFS 494 Aging and the Family (4)

NDSU Soc 441 Sociology of Death (4)

NDSU SW 387 Mental Health Care of the Aging (2)

CC SW 388 Social Service Programming (2)

CC SW 411 Chemical Dependency (4)

SW 404 Rural Social Work (4)

SW 369 Field Experience Related to Aging (4)

SW 479 Field Experience II

(To take SW 369 or 479 the student must be a SW major and go through a formal planning process in the Social Work Department the quarter prior to registration) (4-15)

Biol 104 Human Biology, Biol 236 Introduction to

Microbiology, or Biol 241 Human Genetics (3)

Soc 235 Sociology of Health and Medicine, Hlth 326

Epidemiology, or Soc 442 Sociology of Chronic Illness

and Disability (4) NDSU

** Similar courses at other Tri-College institutions may be substituted with permission.*

Health-Physical Education-Recreation Department Nemzek 106, (218) 236-2445

Chair: Margaret Moore

Faculty: Cynthia Booth, Lyndon Brown, Richard Bynum, D. Ellen Cromwell-Cecrle, Mary Curtis, Ross Fortier, James Gemar, Steven Grineski, Daniel Lind, Orlow Nokken, Donella Palmer, Larry Papenfuss, Janet Paulsen, David Schellhase, Randall Smith, John Sterner, William Thomas, Lori Ulferts, Kirk Westre, Kathryn Wilson

Major in Health Education 7-12 (Teaching)

B.S. Degree Major Requirements (72 credits) Core Requirements (41 credits)

Hlth 110 Personal and Community Health (4)

Hlth 125 First Aid (2)

Hlth 200 Health and Culture (4)

Hlth 205 Introduction to Nutrition (4)

Hlth 215 Health Agencies and Services (4)

Hlth 327 Principles of Safety Education (4)

Hlth 330 Introduction to Diseases (4)

Hlth 340 Health Methodology (4)

Hlth 410 Consumer Health Education (4)

Hlth 412 Marriage and Family Life Education (4)

Hlth 465 Organization and Administration of School Health Programs (3)

Requirements in Related Areas (31 credits)

Selections from the following areas based on prior education and goals of the student: (Suggested courses are listed.)

Biology or Zoology
(Biol 103 Hum & Ecosystem)
Bacteriology or Microbiology (Biol 236 Intro to Micro)
Applied Human Anatomy (PE 220 App Human Anatomy)
Physiology (PE 321 Human Physiology)
Human Growth and Development
(Ed 214 Hum Grwth/Dev)
Psychology (Psy 113 General Psych)
Sociology (Soc 110 Intro to Soc)
All Teacher Education requirements must be fulfilled to complete this major. (See Education)

Major in Health Education (Community Health)

B.A. Degree Major Requirements (89-99 credits)

Core Requirements (55-65 credits)

Hlth 110 Personal and Community Health (4)
Hlth 125 First Aid (2)
Hlth 200 Health and Culture (4)
Hlth 205 Introduction to Nutrition (4)
Hlth 215 Health Agencies and Services (4)
Hlth 326 Epidemiology (4)
Hlth 327 Principles of Safety Education (4)
Hlth 330 Introduction to Diseases (4)
Hlth 340 Health Methodology (4)
Hlth 410 Consumer Health Education (4)
Hlth 412 Marriage and Family Life Education (4)
Hlth 415 Design and Evaluation of Community Health Education Programs (4)
Hlth 465 Organization and Administration of School Health Programs (3)
Hlth 469 Internship (6-16)

Requirements in Related Areas (26 credits)

Selections from the following requirements based upon licensure rules, prior education and experience, and educational goals of the student:

Biol 103 Humanity and the Ecosystem (4)
Biol 236 Introduction to Microbiology (4)
Chem 104 Environmental Chemistry (4)
Chem 106-107-108 Chemistry for Health Professions (15)
Mgmt 360 Principles of Management (4)
PE 111 Concepts of Physical Fitness (2)
PE 220 Applied Human Anatomy (4)
PE 321 Human Physiology (4)
(Biol 215-216 may be substituted for PE 220 & 321)
Psy 113 General Psychology (4)
Soc 110 Introduction to Sociology (4)
SpEd 100 Beginning Speech Communication (4)

Electives in Health Education (8 credits minimum in the areas of human growth and development or communication skills -subject to advisor approval.)

Major in Physical Education K-12 (Teaching)

B.S. Degree Major Course Requirements (79 credits)

Hlth 125 First Aid (2)
Hlth 220 Prevention and Care of Athletic Injuries (2)
One Aquatics Course (1)
PE 191 Activity Block I (1-4)
PE 192 Activity Block II (1-4)
PE 193 Activity Block III (1-4)
PE 194 Activity Block IV (2)
PE 195 Activity Block V (2)
PE 200 Foundations of Physical Education (4)
PE 220 Applied Human Anatomy (4)
PE 243 General Methods in PE (4)
PE 250-252 Sports Officiating (2)
PE 310 Sport and Play in the U.S. (3)
PE 311 Motor Learning (3)
PE 320 Kinesiology (4)
PE 321 Human Physiology (4)
PE 360 Elementary Methods in PE (4)
PE 361 Secondary Methods in PE (4)
PE 371-379 Sports Coaching (3)
PE 421 Physiology of Exercise (4)
PE 452 Adapted Physical Education (4)
PE 460 Principles of Coaching (4)
PE 474 Tests & Measurements in Physical Education (4)
PE 495 Administration of Physical Education (3)
Coaching Practicum (0)

All Teacher Education requirements must be fulfilled to complete this major. (See Education)

Major in Physical Education B.A. Degree

For students who do not plan to qualify for public school teaching. Requirements are the same as for the teaching major excluding Teacher Education Requirements.

Major in Fitness and Sport Science B.S. Degree

For students preparing for entry level positions in fitness related fields.

Major Course Requirements (58 credits)

PE 100 Aerobic Dance (1)
PE 102 Weight Training (1)
PE 104 Jogging (1)
PE 108 Racquetball (1)
PE 111 Concepts of Physical Fitness (2)
PE 116-7 Tennis (1)
PE 220 Applied Human Anatomy (4)
PE 240 Elementary PE (2)
PE 310 Sport and Play in US (3)
PE 311 Motor Learning (3)
PE 320 Kinesiology (4)
PE 321 Human Physiology (4)
PE 421 Physiology of Exercise (4)
PE 452 Adapted Physical Education (4)
PE 469 Internship (3)
PE 474 Tests and Measurements in PE (4)
Hlth 110 Personal and Community Health (4)
Hlth 125 First Aid (2)

Hlth 205 Introduction to Nutrition (4)
Hlth 220 Prevention and Care of Athletic Injuries (2)
Hlth 330 Intro to Diseases (4)

Requirements in Related Areas (15 Credits)

HPER 480 C & C Fitness/Program Impl (NDSU) (3)
HPER 450 Physical Activity - Well Being (NDSU) (3)
HPER 456 EKG Monitoring (NDSU) (2)
HPER 251 Peak Performance (NDSU) (2)
HPER 216 Cardio-Pulm Res (NDSU) (2)
F/N 140 Wellness (NDSU) (3)
ED 108 Stress Management
Spch 100 Beg Speech Communication (4)
Mgmt 360 Prin of Management (4)
Chem 106 Chem for Health Prof (5)
Chem 107 Chem for Health Prof (5)
Chem 108 Chem for Health Prof (5)
Hlth 301 Health Aspects of Aging (4)
Hlth 410 Consumer Health (4)
Hlth 415 Design and Evaluation of Community Health Education (4)
PE 435/499 Issues and Trends/Workshops (1-4)

Coaching Licensure (18 credits)

Coaching Certification can be awarded only in combination with at least one teaching major.

All applicants for coaching licensure must complete a practicum. MSU Physical Education majors complete necessary course work as part of their major. Non-majors must complete the courses listed below:

Hlth 125 First Aid (2)
Hlth 220 Prevention & Care of Athletic Injuries (2)
PE 350 Mechanical Principles of Sport (4)
PE 351 Physiology of Sport (3)
PE 371-79 One Coaching Class (3)
PE 460 Principles of Coaching (4)
Practicum (0)

Athletic Training

The program is not an academic major or minor, but a means for students to work toward National Athletic Trainers Association certification in athletic training. The program is supervised by the Head Athletic Trainer and requires 32 credit hours of course work and 1500 internship hours of internship experience.

Required Courses (32 credits)

Hlth 110 Personal and Community Health (4)
Hlth 125 First Aid (2)
Hlth 220 Prevention and Care of Athletic Injuries (2)
Hlth 221 Advanced Athletic Training I—Therapeutic Modalities (4)
Hlth 321 Advanced Athletic Training II—Orthopedic Assessment (4)
PE 220 Applied Human Anatomy (4)
PE 320 Kinesiology (4)
PE 321 Human Physiology (4)
PE 421 Physiology of Exercise (4)

Internship (1500 hours) Practical experience under the supervision of the Head Athletic Trainer.

Developmental/Adapted Physical Education Licensure (38 credits)

This licensure can be awarded only in combination with a Physical Education K-12 major.

SpEd 412(g) Mental Retardation (4)
SpEd 461(g) Educating Children and Youth with Specific Learning Disabilities (4)
SpEd 471(g) Behavioral and Environmental Management (3)
PE 311 Motor Learning (3)
PE 419 Adapted Physical Education Curriculum (4)
PE 452(g) Adapted Physical Education (4)
PE 453(g) Assessment and Programming in D/APE (4)
PE 456(g) Assessment and Curriculum Planning for Persons with Severe Handicaps I (4)
PE 476 Internship - D/APE (5)
PE 409 Adapted Physical Education (NDSU) (3)
The following courses must be taken at MSU in order to be licensed: PE 452, PE 453, PE 476(3), SpEd 461 or SpEd 412.

Minor in Health Education 7-12 (Teaching) (33 credits)

This minor can be awarded only in combination with at least one teaching major.

Hlth 110 Personal and Community Health (4)
Hlth 125 Standard First Aid/Personal Safety (2)
Hlth 205 Nutrition (4)
Hlth 327 Principles of Safety Education (4)
Hlth 340 Health Education Methodology (4)
Hlth 465 Org/Ad of School Health Prog (3)
PE 220 Applied Human Anatomy (4)
PE 321 Physiology (4)

At least one of the following courses:

Hlth 215 Health Agencies and Services (4)
Hlth 330 Introduction to Diseases (4)
Hlth 410 Consumer Health (4)
Hlth 412 Marriage and Family Life Education (4)
Hlth 415 Des/Eval of Community Health Education Programs (4)

Minor in Health (Community) (33-34 credits)

Hlth 110 Personal and Community Health (4)
Hlth 125 Standard First Aid and Personal Safety (2)
Hlth 205 Introduction to Nutrition (4)
Hlth 215 Health Agencies and Services (4)
Hlth 410 Consumer Health (4)
Hlth 415 Des/Eval of Community Health Education Programs (4)

At least three of the following courses:

Biol 104 Human Biology (4)
Hlth 200 Health and Culture (4)
Hlth 301 Health Aspects of Aging (4)
Hlth 306 Cross-Cultural Illness and Care (4)
Hlth 326 Epidemiology (4)

Hlth 327 Principles of Safety Education (4)
Hlth 330 Introduction to Diseases (4)
Hlth 340 Health Methodology (4)
Hlth 412 Marriage and Family Life Education (4)
Hlth 465 Organization and Administration of School Health Programs (3)

Minor in Physical Education K-12 (Teaching) (40 credits)

This minor can be awarded only in combination with at least one teaching major and is not recognized for teacher certification in the State of Minnesota.

Hlth 125 First Aid (2)
PE 192 and 194 Activities Course (6)
PE 191 or 193 or 195 Activities Course (4)
PE 200 Foundations of Physical Education (4)
PE 220 Applied Human Anatomy (4)
PE 243 General Methods in PE (4)
PE 321 Human Physiology (4)
PE 360 Elementary Methods in PE (4)
PE 361 Secondary Methods in PE (4)
PE 452 Adapted Physical Education (4)

Recreation and Leisure Studies

A major in Recreation and Leisure Studies is not available at this time.

HEALTH EDUCATION COURSES

Hlth 110 Personal and Community Health (4) (FWS)

An overview of health-related topics emphasizing education for the prevention of illness. Required for teacher certification in Minnesota.

Hlth 124 First Aid-Elementary Education (1) (Fs)

Preparation relative to injury/illness as encountered by the elementary teacher.

Hlth 125 First Aid (2) (FWS)

This course is designed to prepare the student to deal effectively with situations in which emergency care is required and medical assistance is not readily available.

Hlth 200 Health and Culture (4) (S)

Introduction to health-related disciplines. Interrelationships among behavior, beliefs and health as they relate to medical problems.

Hlth 205 Introduction to Nutrition (4) (FWS)

Topics that deal with nutrition requirements and energy needs of people will be covered, such as utilization of food components, weight control and food additives.

Hlth 215 Health Agencies and Services (4) (F)

A survey of community agencies and programs at the national, state and local levels from historical and contemporary perspectives.

Hlth 220 Prevention and Care of Athletic Injuries (2) (FWS)

This course introduces students to the basic principles of athletic training essential to prevention, recognition and treatment of athletic injuries and organization and administration of athletic training programs. Prerequisite: Hlth 125 or PE 220.

Hlth 221 Advanced Athletic Training I: Therapeutic Modalities (4) (S)

This course will investigate tissue repair, physiology of hot and cold treatments, therapeutic modalities, and therapeutic exercise relevant to athletic injury management. Prerequisite: Hlth 125 and Hlth 220.

Hlth 301 Health Aspects of Aging (4) (F)

Models and theories of aging; environmental factors that affect physiological changes with age; life-style and aging processes.

Hlth 302 Cultural Aspects of Aging (4)

Attributes, concerns and function of elders in Western and non-Western societies. Prerequisite: Hlth/Soc/Anth 200 or consent of instructor.

Hlth 306 Cross-Cultural Illness and Care (4)

An ethnomedical approach to perceptions and definitions of illness and disease; treatment employed; function of practitioners. Prerequisite: Anth 100 or Hlth 200 or consent of instructor.

Hlth 321 Advanced Athletic Training II: Orthopedic Assessment (4) (S)

Study of advanced athletic training techniques (orthopedic assessment; therapeutic modalities, emergency management and rehabilitation principles). Prerequisite: Hlth 220, PE 220.

Hlth 326 Epidemiology (4) (W)

A study of the distribution of disease with an emphasis upon interrelationships among culture, social organizations, environment and population changes.

Hlth 327 Principles of Safety Education (4) (Ws)

Study and evaluation of factors in safety awareness and accident prevention.

Hlth 330 Introduction to Disease (4) (W)

Introduction to common degenerative and developmental disorders. Emphasis on the relationship of these disorders to health education programs.

Hlth 340 Health Methodology (4) (F)

A student-involvement approach to procedures and materials used to facilitate learning experiences in a school or community setting.

Hlth 350 Cross-Cultural Mental Health (4)

The relationship between culture and mental health; specific illness and causes; problems in identifying a cross cultural typology. Prerequisite: Anth 110, Anth 111, or consent of instructor.

Hlth 410 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 Marriage and Family Life Education (4) (FWS)

An in-depth study of pre-marital and family relations. Group and valuing processes are involved.

Hlth 415 Design and Evaluation of Community Health Education Programs (4) (S)

Study of a process and the technique to organize, implement and evaluate community health education programs. Prerequisite: Hlth 215, Hlth 326, Hlth 340, or consent of instructor.

Hlth 465 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 469 Internship (6-16) (FWS)

Designed for Community Health Education majors. Involvement in field work by placement in health related governmental, volunteer or commercial agencies. Prerequisite: Consent of instructor.

Hlth 475(g) Issues and Trends in Health Education (1-4)

Issues or trends of major concern in the discipline of Health/Health Education. The course may be repeated as content varies. Prerequisite: Senior standing or consent of instructor.

Hlth 560 Studies in Athletic Training (3)

Directed readings and discussions with emphasis on research in athletics.

Physical Education

See Health-Physical Education-Recreation for Curricula.

PHYSICAL EDUCATION COURSES

PE 100-163 may not be repeated for credit.

PE 100 Fundamental Activities (1) (FWS)

Topical physical education activities (e.g., aerobic dance, tae kwon do, and personal defense)

PE 102 Weight Training (1) (FWS)**PE 103 Exercise and Body Development (1)****PE 104 Jogging (1) (FS)****PE 105 Junior Varsity Athletics (1) (FWS)**

Season long participation in an intercollegiate sport. Must be taken prior to PE 107. Prerequisite: Consent of athletic coach. May not be repeated for credit.

PE 107 Varsity Athletics (1) (FWS)

Season long participation in an intercollegiate sport. Prerequisite: PE 105, Consent of athletic coach. May not be repeated for credit.

PE 108 Racquetball (1) (FWS)**PE 111 Concepts of Physical Education (2) (FS)**

Examines basic concepts and principles of physical fitness and evaluates personal fitness level. Designs a personal physical fitness program to meet individual needs.

PE 112 Beginning Bowling (1) (FWS)**PE 113 Intermediate Bowling (1) (S)****PE 114 Beginning Golf (1) (FS)****PE 115 Intermediate Golf (1)****PE 116 Beginning Tennis (1) (FS)****PE 117 Intermediate Tennis (1) (FS)****PE 118 Gymnastics I (1)****PE 119 Gymnastics II (1)****PE 120 Wrestling (1)****PE 121 Handball (1)****PE 122 Track and Field (1)****PE 124 Badminton (1) (W)**

PE 127 Beginning Archery (1) (W)

PE 128 Intermediate Archery (1) (W)

PE 130 Basketball (1) (FW)

PE 131 Volleyball I (1) (FW)

PE 132 Volleyball II (1)

PE 133 Softball (1) (Fs)

PE 134 Soccer (1) (Fs)

PE 135 Football (1)

PE 140 American Round and Square Dancing (1) (Fs)

PE 141 Intermediate Square Dance (1)

PE 142 Advanced Square Dance (1)

PE 143 Folk Dancing (1) (Fws)

PE 145 Beginning Modern Dance (1)

PE 148 Ballroom Dancing I (1) (Fws)

PE 149 Ballroom Dancing II (1) (Ws)

PE 150 Beginning Jazz (1)

PE 152 Beginning Ballet (1)

PE 153 Beginning Tap (1)

PE 160 Beginning Swimming (1) (F)
 This course is designed for the student to learn basic water safety skills and knowledge in order to make him/her safe in the aquatic environment.

PE 161 Intermediate Swimming (1) (F)
 This course is designed to increase the watermanship of the student by adding to skills learned in the beginning course and to improve coordination and stamina.

PE 162 Swimmers (1) (W)
 This course is designed to increase the student's endurance and versatility in the water by adding additional strokes, longer practice periods and placing greater emphasis on the techniques of each stroke.

PE 163 Advanced Swimmers (1) (W)
 This course is designed to provide advanced swimming students with additional technique information on basic strokes and to introduce students to hybrid and other strokes. The students will also gain a high proficiency level in turns, dives and aquatic survival techniques.
 Prerequisite: PE 162

PE 166 Life Guard Training (2) (Ws)
 This course is designed to teach the student safety education in and around the aquatic environment and to teach basic rescue and resuscitation skills for emergency situations. Prerequisite: PE 161 or PE 162, Hlth 125.

PE 191 Activities Course - Block I (1-4) (F)
 Designed for the physical education major, this course provides for skill development and knowledge of rules, terminology and strategies in soccer, softball, volleyball and basketball; non-traditional activities such as orienteering, games, bicycling; and introduces the student to principles involved in developing a personal physical fitness program.

PE 192 Activities Course - Block II (1-4) (W)
 Designed for the physical education major, this course provides for skill development, knowledge of rules, terminology in gymnastics; and terminology and skill development in folk, square and social ballroom dance.

PE 193 Activities Course - Block III (1-4) (S)
 Designed for the physical education major, this course provides for skill development, knowledge of rules, terminology and strategies in badminton, track and field, tennis and golf.

PE 194 Activities Course - Block IV (2) (Fws)
 Designed for the physical education major, this course introduces the student to fundamental elementary school activities; and provides for skill development, knowledge of rules, terminology and strategies in team handball.
 Prerequisites: PE 191, PE 192, PE 193.

PE 195 Activities Course - Block V (2) (W)
 Designed for the physical education major, this course provides for skill development, knowledge of rules and terminology in winter games; such as, nordic skiing, water polo, ice skating and broomball.

PE 200 Foundations of Physical Education (4) (Fs)
 This course investigates the nature and scope of physical education including philosophy, objectives and the role of movement and fitness. It involves the application of historical and scientific foundations as they apply to physical education and sport and considers career and professional opportunities in physical education and sport.

PE 220 Applied Human Anatomy (4) (WS)

A study of the applied human anatomy with a focus on the musculoskeletal systems. The student will learn basic skeletal structure, make-up and functional capabilities at the various joints, the role of the musculature in human movement and a systematic means of establishing a conditioning program.

PE 223 Water Safety Instructor's Course (3) (S)

American Red Cross certification.
Prerequisite: PE 162, PE 163.

PE 240 Physical Education in the Elementary School (2) (FWS)

Games, rhythms and other activities recommended for the physical education program in the elementary school.

PE 243 General Methods in PE (4) (FW)

This course is designed to teach the basic knowledge and skills to allow the student to understand the importance of effective teaching, learn a theoretical base for effective teaching, and develop performance skills necessary for effective teaching in physical education. Prerequisite: PE 200.

PE 250 Officiating Football (2) (F)

This course introduces the student to the role and function of the state high school leagues and local officiating associations. The student will learn the high school code of football rules and demonstrate a knowledge of the mechanics of administering a high school football contest.

PE 251 Officiating Basketball (2) (W)

This course familiarizes the student with state high school leagues and local official's associations. The student will learn the national federation basketball rules and will have on-the-court practical experience in learning the mechanics of administering a high school basketball game.

PE 252 Officiating Volleyball (2) (F)

This course is designed to teach students the officials' roles in intercollegiate and interscholastic matches, and to provide an opportunity for students to develop appropriate skills and knowledge to assume officiating responsibilities.

PE 294 Women and Sport (4) (FW)

A study of women and sport. Historical, sociological and psychological factors are examined. Legislation affecting participation, present status of women and sport, and future outlook are considered. Prerequisites: Junior standing or consent of instructor.

PE 310 Sport and Play in the United States (3) (FWS)

This course is an investigation of sport and play in American society. It involves the application of concepts from various disciplines to sport and play and the development of an understanding of the functions that sport and play serve in the United States.

PE 311 Motor Learning (3) (W)

A study of theoretical and practical knowledge of the individual, instructional and environmental variables relevant to teaching, learning and performing motor skills.

PE 320 Kinesiology (4) (WS)

This course is designed to develop an understanding of the mechanical principles that govern the effectiveness with which physical education and sport skills are performed. Prerequisite: PE 220.

PE 321 Human Physiology (4) (FW)

This course is designed to develop an understanding of the many physiological systems of the human body. Laboratory experiences include the application of physiological principles to health-related fitness.

PE 333 Pool and Waterfront Management (4) (S)

This course is designed to provide students with the knowledge and skills necessary to administer, operate, maintain and design safe pool and waterfront programs. National Pool Operators Certification Test will be provided at the completion of the course. Prerequisite: PE 166 or consent of instructor.

PE 348 Dance History (2)

A study of dance from primitive societies to present forms in art and education.

PE 350 Mechanical Principles of Sport (4) (FWS)

A study of applied anatomy of the human musculoskeletal systems and the analysis of the mechanical principles applied to human motion. Credit not applicable to a Health or Physical Education major or minor.

PE 351 Physiology of Sport (3) (FWS)

Application of physiological principles to athletic performance and physical conditioning programs. Credit not applicable to a Health or Physical Education major or minor.

PE 360 Elementary Methods in PE (4) (WS)

This course is designed to prepare students to effectively teach physical education to children in grades K-6. Course content reflects the idea that teaching is goal directed and a skill that requires practice. Students are required to observe, participate, teach and evaluate elementary school physical education. Prerequisite: PE 194, PE 243.

PE 361 Secondary Methods in PE (4) (FS)

This course is designed to prepare students to effectively teach physical education activities to students in grades 7 through 12. Prerequisite: PE 191, PE 192, PE 193, PE 243.

PE 371 Coaching Football (3) (F)

This course is intended to help prepare students for coaching football up to high school. Emphasis is placed on students developing a philosophy concerning all aspects of coaching football.

PE 372 Coaching Basketball (3) (FW)

This course is designed for students to acquire the knowledge and skills necessary to successfully coach basketball at the junior and senior high school levels.

PE 373 Coaching Baseball (3) (S)

This course is designed to provide the student with the necessary background to coach baseball at the high school, American Legion or youth league levels.

PE 374 Coaching Track and Field (3) (S)

This course is designed to prepare students to effectively coach track and field to junior and senior high school students. It involves the application of strategies, placement of personnel and meet management. Students will learn about equipment, safety precautions and be able to perform basic track and field skills.

PE 375 Coaching Wrestling (3) (W)

This course is designed to prepare students to coach wrestling at the junior and senior high school levels.

PE 376 Coaching Golf/Tennis (3)

This course is designed to prepare the student to coach competitive tennis at the junior and senior high school level.

PE 377 Coaching Softball (3) (FS)

This course is designed to teach the skills and knowledge necessary to coach fast or slow pitch softball. The course will also cover expectations of umpiring and score keeping.

PE 378 Coaching Swimming and Diving (3)

This course is designed to teach the skills and knowledge necessary to coach swimming and diving. The course will also cover expectations of officiating score keeping for swimming meets.

PE 379 Coaching Volleyball (3) (F)

This course prepares students to effectively coach volleyball at the elementary or secondary school level. Students learn about season and practice management, principles of physical training, development and analysis of skills, offensive and defensive team play, game management and evaluative procedures.

PE 384 Outdoor Leadership I (4) (S)

An introduction to essential components needed for successful outdoor leadership. Emphasis is on the development of competencies deemed necessary for responsible outdoor leadership. Prerequisite: Hlth 125, Rec 140, or consent of instructor.

PE 421(g) Physiology of Exercise (4) (FW)

A study of the function of those body systems most directly affected by and involved in exercise. Physiological considerations in human movement such as thermal regulations, performance at altitude and underwater, drugs and other ergogenic aids, and designing of specialized training programs will be pursued. Prerequisite: PE 321.

PE 435 Issues & Trends in Physical Education/Athletics (1-4)

Issues or trends of major concern in the discipline of Physical Education and athletics. The course may be repeated as content varies. Prerequisite: Senior standing or consent of instructor.

PE 452(g) Adapted Physical Education (4) (Fw)

This course provides the student with an introductory study to adapted physical education and includes strategies for meeting the needs of students with impairments in the least restrictive environment.

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 456(g) Curriculum and Assessment for Severely Handicapped (4) (F)

Examines program philosophy in teaching students with severe handicaps. Topics include curriculum approaches, methods of assessment, instructional techniques and team approaches.

PE 460 Principles of Coaching (4) (FWS)

This course is designed to introduce students to the nature of the coaching profession and to the principles necessary for effective coaching. Psychological and sociological aspects of coaching are explored and psychological techniques that can be applied to sport to enhance performance as well as personal growth are presented. Prerequisite: One coaching class.

PE 469 Internship (3-16) (FWS)

Designed to give students an opportunity to gain supervised clinical experiences working with a variety of state and local agencies. Prerequisite: Consent of instructor.

PE 474 Tests and Measurements in Physical Education (4) (FS)

This course deals with the theory of measurement in physical education, the selection and administration of appropriate tests, and the interpretation of results by fundamental statistical procedures.

PE 475(g) Administration of Athletics (3) (S)

This course is designed to be a culminating experience for the physical education major, providing an opportunity for the students to draw upon their classroom and practical experiences in formulating their philosophical bases for the variety of concerns related to organizing and administering athletic programs. Prerequisite: Senior standing or consent of instructor.

PE 476 Internship in Developmental / Adapted Physical Education (5) (FWS)

Supervised field experience in developmental/adapted physical education. This experience involves the student with persons, ages 3-21 years who exhibit various physical and/or mental handicapping conditions. 100 clock hours required. Prerequisite: Consent of instructor.

PE 495(g) Administration of Physical Education (3) (FS)

A study of problems, policies and procedures in the administration of physical education. Prerequisite: Senior standing or consent of instructor.

PE 540 Problems in Physical Education (3)

This course is designed to promote individual thought and group interactions relative to contemporary problems in physical education. Experiences include leading group discussions, classroom presentations and debating.

Recreation and Leisure Studies

A major in Recreation and Leisure Studies is not available at this time. The following courses are offered on a regular basis.

RECREATION COURSES**Rec 140 Camping and Outdoor Recreation (3) (S)**

Provides a broad perspective of the aims, purposes and values of the program. Leadership training for counselors.

Rec 450 Field Work in Recreation (3) (Fws)

Involves practical experience opportunities in local programs. Prerequisite: Consent of instructor.

Rec 469 Internship (3-16) (Fws)

This course is designed to give students an opportunity to gain supervised clinical experiences working with state or local recreation agencies. Prerequisite: Consent of instructor.

History Department**MacLean 302, (218) 236-2812**

Chair: William Eagan

Faculty: Dieter Berninger, Henry Chan, Robert Davies, Dianne Farrell, Paul Harris, Lysle Meyer, I. Kenneth Smemo.

Major in History B.A. Degree 62 Credits

This program will govern all students declaring a History Major after Spring Quarter, 1990.

Major Course Requirements

Basic Surveys History 101-102-103 Western Civilization or History 104-105-106 World History (12)

History 121-122-123 History of the United States (12)

Specialized Western History Work at the 200 level or above in:

Europe (3 courses)

North America (3 courses)

Non-Western History Work at the 200 level or above in at least two of the following areas:

Africa

Asia

Latin America

Modern Middle East (3 courses)

Seminar

At least one seminar in history (Hist 402, 403, 404, 405)

(4)

One year of a foreign language

Minor in History B.A. Degree 39 Credits

History 101-102-103

History of Western Civilization or

History 104-105-106 World History (12)

History 121-122-123 History of the United States (12)

Electives in North American and European History at the 200 level or above: (at least 9 credits)

United States
Canada
Europe

Electives in Non-Western History at the 200 level or above: (at least 6 credits)

Africa
Asia
Latin America
Modern Middle East

Major in History B.S. Degree Social Studies (95 credits)

Only the approved Social Studies major can be accepted for secondary teaching certification. See Social Studies.

HISTORY COURSES

Hist 100 Studies in History (3-4)

Selected topics and regions in historical perspective. Designed especially for the liberal arts student, the course may be repeated for credit under a different subtitle as the subject matter changes. Only 4 credits may be applied toward a History Major.

Hist 101-102-103 Western Civilization I-II-III (4 each) (FWS)

101: Ancient and medieval periods. Human beginnings, the ancient civilizations of the Mediterranean basin, and medieval Europe. 102: Renaissance to 1815. Europe transformed: The Renaissance, the Reformation, the rise of the nation state, and competition for empires. 103: 1815 to present: The age of modern industrialism, liberalism, nationalism, the new imperialism and 20th century problems into the atomic age.

Hist 104-105-106 World History I-II-III (4 each) (FWS)

104: Cultures of the world in the ancient period: The agricultural revolution, the rise of the first civilizations. 105: From the end of Classical civilizations to the beginning of global dominance by the West in the late 18th century in world perspective. 106: World civilizations in the modern period, from the late 18th century to the present.

Hist 121-122-123 History of the United States I-II-III (4 each) (FWS)

121: Colonial and Early National America: The development of a new society and the creation of a new political system. 122: The 19th Century: Westward expansion, sectional conflict and industrialization. 123: The 20th Century: Conflict at home and abroad from the Progressive era to the present.

Hist 215 Minnesota and the Upper Midwest (4)

Historical development of the Upper Midwest region with particular focus on the State of Minnesota in the modern period.

Hist 221-222-223 History of England I-II-III (3 each) (FWS)

221: Roman Britain to Norman England. Emphasis on Medieval life and institutions. 222: Tudor, Stuart and early Hanoverian periods. Topics include English Reformation, Puritan revolt, Glorious Revolution. 223: Industrialization, the Victorian period, Britain and Ireland in the 20th century.

Hist 240 History of Mass Communications (3)

Development of journalism in the U.S. from the time of the American colonies to the present.

Hist 241 History of Social Welfare (4) (FW)

Examines the history of public and private responses to poverty and need in America; offers insights into the lives of both providers and recipients of welfare services in American history.

Hist 251-252-253 East Asian History I-II-III (3 each) (FWS)

The cultural, economic and political growth of East Asia. 251: China. 252: Japan. 253: Southeast Asia.

Hist 261-262-263 History of Africa I-II-III (3 each) (FWS)

261: Northern African and sub-Saharan civilizations up to the 15th century. 262: European intrusion, the slave trade; black state-building. 263: Colonial partition and black resistance; colonial rule and the growth of African nationalism; problems of independence.

Hist 271-272 History of Latin America I-II (4 each) (FWS)

271: Iberian heritage, pre-Columbian Indian cultures, the era of conquest, the colonial period and Wars of Independence. 272: Major trends in Latin America in the 19th and 20th centuries.

Hist 305(g) Modern Middle East (4)

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) Topics in Asian History (3-4)

Selected topics in Asian history.

Hist 308(g) Topics in African History (3-4)

Selected topics in African history.

Hist 309(g) Topics in Latin American History (3-4)

Selected topics in Latin American history.

Hist 310(g) Topics in European History (3-4)

Selected topics in European history.

Hist 311(g) Topics in North American History (3-4)

Selected topics in North American history.

Hist 312-313-314(g) Ancient History I-II-III (4 each) (FWS)

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)

The political, religious, cultural, economic and social evolution of Europe from the 14th to the 16th century.

Hist 317(g) The Reformation (3)

16th 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 from the late 19th century 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) (FWS)

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 338-339(g) Intellectual History of Western Civilization I-II (4 each)

338: Reflections on fundamental social, political, and religious concerns from the Renaissance to the 18th century Enlightenment. 339: Intellectual response to the special problems of modern society in the 19th and 20th centuries. Prerequisite: Hist 102-103 or consent of instructor.

Hist 340-341(g) History of Scandinavia I-II (4 each)

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)

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)

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 20th 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) (FS)

Topical approach to social changes that have affected the life-styles, values, and ways of thinking of diverse groups in American history. 368: To the mid-19th century. 369: Late 19th century 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) (W)

Women's experiences in the family, work, religion, reform, and the women's rights and feminist movements; seeks to understand women's issues in historical perspective.

Hist 377(g) Afro-American History (4)

The historical experience of Afro-Americans from slavery to the present; how American society has oppressed Afro-Americans and how they have struggled against that oppression, with particular emphasis on organized resistance in the era of the Civil Rights movement.

Hist 381-382(g) History of Canada I-II (3 each)

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)

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)

Problems in North American history for advanced students.

Hist 410 Tutorial in History: Undergraduate (1-3)

Directed readings and discussion on particular topics agreed upon by instructor and student. Consent of instructor must be obtained before registration. May be repeated for credit.

History 469 (g) Internship (4-16)

History majors gain on-the-job experience in a supervised situation with cooperating private or public agencies.

Home Economics

Cooperative Degree Program

Although no courses in this field are offered at MSU, a cooperative agreement with North Dakota State University permits a student to take three years of courses as an MSU student, concurrently pursuing courses in this specialty at NDSU. The student need only transfer for the fourth year to NDSU, pay in-state tuition under a reciprocity agreement, and will receive the degree from that institution.

Honors Program

Director: Michael W. Hughey

The Honors Program exists to reward and encourage superior academic achievement. It is designed to create a community of learning in which students can pursue ideas collectively and learn with and from each other as well as

from instructors. Students with a 3.5 GPA or better are invited into the program at the end of their freshman year. Course work usually begins in the sophomore year. Those who complete the Honors Program will have their achievement noted on their transcript.

Program requirements

Honors 200 and any three of the following: Honors 300, 301, 303, 304.

HONORS COURSES

Hon 100 Honors Colloquium (1)

Small group discussions of selected topics. May be repeated for credit.

Hon 200 Honors Colloquium (4)

The Honors Colloquium will constitute a 4-credit course required of all Honors students upon admission to the Honors program. Colloquia will emphasize small group discussions of significant issues or problems. Meetings will encourage informal exchange of ideas and viewpoints between instructors and students. Reading materials will be chosen at the discretion of the instructors. Brief papers will be required.

Hon 300 Multidisciplinary Seminar (4)

Examines some of the major political, economic and cultural developments in American life during roughly the past century. Possible topics include concentration of political and economic power, bureaucratization and its effects, revolutions in class structures, race and ethnicity in politics, and the consequences of the decline of American empire. Social Science credit.

Hon 301 Masterpieces of Literature (4)

Consists of careful reading of selected masterpieces of world literature combined with intense discussion and exchange of ideas. Possible works to be covered include selections from Homer, Dante, Shakespeare, Dostoevsky, Yeats, Camus and others. Humanities credit.

Hon 303 Nature of Physical Reality (4)

A study and comparison of models of physical reality constructed by two major figures of 20th century physics, Albert Einstein and Niels Bohr. Natural Sciences credit.

Hon 304 Great Works in Social Thought (4)

A critical examination of classics in social thought, including such works as Plato's Republic, Augustine's City of God, Machiavelli's The Prince, Locke's Second Treatise and Marx's The Communist Manifesto. Humanities credit.

Hotel-Motel-Restaurant Management

See Business Administration for Curricula.

HOTEL-MOTEL-RESTAURANT MANAGEMENT COURSES

HMR 242, 243, 244 Work Experience I-II-III (1 each) (FWS)

Supervised work experience of at least 30 hours. Written report. Open only to students majoring in HMR. One credit per quarter, up to a maximum of 3 credits.

HMR 300 Introduction to Food Service (2) (FS)

Principles and standards involved in food preparation and cooking methods for restaurants. Understanding of physical changes in food during cooking and heat transfer.

HMR 310 Food Administration Practicum (2-4) (FWS)

Supervised on-the-job experience in food administration.

HMR 312 Beverage Administration Practicum (2-4) (FWS)

Supervised on-the-job experience in beverage administration.

HMR 314 Motel Administration Practicum (2-4) (FWS)

Supervised on-the-job experience in motel administration.

HMR 349 Food Service Laboratory (2) (FWS)

Planning, production, and service of food at Centennial House. Students rotate as managers and supervise the operation. Prerequisite: F&N 346 Quantity Food Production and HMR 300.

HMR 350 HMR Maintenance Management (4) (F)

Examines the organization and management of the Hotel-Motel-Restaurant maintenance department and provides technical information needed to establish effective preventative maintenance procedures. Emphasis will be given to energy conservation in the operation of lodging and food services.

HMR 352 Front Office Management (4) (F)

Front office systems, organization, functions and dynamics. Preparation of the night audit.

HMR 355 Innkeeper's Liability (4) (S)

Legal environment of hotels, motels and restaurants. Includes HMR investment and finance.

HMR 442 Hotel-Motel-Restaurant Organization & Management (4) (W)

The scope, organization and operation of lodging and food service departments. Topics to be covered will include Hotel-Motel-Restaurant organization and management, work authority and delegation, work policies, staffing, safety, job responsibilities and supervision in lodging and food service systems. Prerequisite: Management 360.

HMR 443 Beverage Management (4)

Management of a bar operation and an understanding of how beverages are made. Emphasis is on responsible beverage service, costing and controls.

HMR 446 Hospitality Marketing and Sales Promotion (4) (W)

An analysis of aspects of the hospitality services market with emphasis on marketing and sales promotion. Internal and external stimulation of sales in competitive markets; experimental techniques in industry-sponsored, sales blitz activities. Examination of the tourism areas and current developments worldwide, attracting individuals, pleasure groups or business conventions. Prerequisite: Mktg 310, HMR 442.

HMR 456 Convention Sales and Services (4) (F)

Explanation of the convention market and its services. Planning, organizing, executing and evaluating conventions from the client and hotel convention service staff perspective.

HMR 460 Hotel-Motel-Restaurant Design and Aesthetics (4) (S)

The condensed survey of the aesthetic and current trends in the development of public accommodations and food services. Includes the interrelationships of planning, construction, equipment, maintenance, personnel and service. Emphasis will be on design and layout, equipment selection and budget estimation. Prerequisite: HMR 300 and consent of the instructor.

HMR 466 Current Trends in HMR Management (1-4) (S)

Current trends in lodging and food services. Emphasis will be on review of current literature and information in the area of lodging and food service. In-depth examination of special topics and/or problems by the students will be included. (May be offered as Sanitation and Safety (2) (W).)

HMR 498 Problems in Hotel-Motel-Restaurant (1-4) (Fws)

Individual inquiry into an aspect of hotels, motels or restaurants not covered in the regular curriculum. Prerequisite: Consent of instructor.

**Department of Humanities and
Multicultural Studies
MacLean 326, (218) 236-2196**

Chair: Joyce Torgerson

Faculty: Dieter Beminger, D.C. Cole, Konrad Czynski,
Phyllis May-Machunda, Robert McGahey, Sylvia
Morgan, Donna Rosh

DEPARTMENT CURRICULA

The Humanities and Multicultural Studies Department is the core of a variety of interdisciplinary majors and programs: a B.A. in American Studies; an individualized major in Humanities; a Fine Arts minor; a Humanities minor; an African American Humanities minor; an American Indian Studies minor; a Chicano Studies minor; and a Multicultural Studies minor.

AMERICAN STUDIES CURRICULA

See American Studies

HUMANITIES CURRICULA

Individualized Major (70 credits)

With the guidance of a faculty advisor from the department, the student selects a minimum of 30 credits in Humanities, 30-40 credits in appropriate courses from disciplines such as English, Philosophy, Art, Theatre, Languages. All courses selected for an individualized major in Humanities must be clearly and directly related to the title.

See Academic Information and Individualized Major for guidelines on the development of this major.

Minor in Fine Arts (36-40)

Core Requirements (4 credits)

Hum 201 Humanities Through the Arts

Electives (32-36 credits)

Three courses from three of the following areas. Two to four credits must be in a studio, applied or performing course.

Hum 214-215-216 Classical, Renaissance, Modern (4 credits each)

The visual arts and their history and appreciation
Theatre, film and literature
Music

Minor in Humanities: Western Culture (35)

Core Requirement (12 credits)

Hum 211-212-213 Perspectives on Society, Ultimate Reality, Self (4 each)

Electives (23 credits)

Two courses from the sequence of Hum 214-215-216
Classical, Medieval, Modern (4 each)

In consultation with an advisor from the department, the student will choose electives from humanistic disciplines that best serve individual interests, such as history, philosophy, political science, literature, history or appreciation of the arts.

**MULTICULTURAL STUDIES CURRICULA
Minor in African American Humanities
(28 credits)**

Coordinator: Phyllis May-Machunda

Required Courses: (12 credits)

MCS 209 African American Humanities: Roots (4)

MCS 210 20th Century African American Humanities (4)

MCS 211 Contemporary African American Community (4)

16 Credits of the Following: *

MCS 301 African American Music (4)

MCS 311 African American Art (3)

MCS 461 Readings in African American Culture (1-3)

MCS 300 Special Topics in African American Cultures

AmSt 201, 202 or 203 Multicultural America (4 each)

Hist 377(g) African American History (3-4)

Anth 230 Cultures of Africa (4)

Econ 310 Economics of Poverty and Discrimination (4)

Mus 215 History of Jazz (4) **or**

Mus 315 - Jazz History and Lab (4)

* With approval of MCS department.

Minor in American Indian Studies (24 credits)

Coordinator: Donna Rosh

Faculty: D.C. Cole

Required courses (12 credits)

MCS 102 The Contemporary American Indian (4)

MCS 202 Traditional American Indian Cultures (4)

MCS/Hum 218 American Indian Belief Systems (4)

Electives may be chosen from the following courses (12 credits):

AmSt 201 American Cultural Origins (4)

MCS/Anth 219 Plains Indian Cultures (4)

MCS 270 Indian Education/North Dakota (3)

MCS 332 Indians of the Southwest (3)

MCS 462 Readings on the American Indian (1-3)

Anth 210 Minnesota Prehistoric People (4)

Anth 225 Indians of North America (4)

Anth 315 North American Archaeology (4)

MCS 225 Ojibwe Culture (4)

Engl 248 Introduction to American Ethnic Literature (4)*

Hist 309 Studies in Latin American History: Aztecs & Incas (4)*

Hist 311 Studies in North American History (4)*

* With prior approval of MCS Department.

Minor in Chicano Studies (24 credits)

Coordinator: Dieter Beminger

MCS 103 The Contemporary Chicano (4)

MCS 203 Chicano Culture (4)

Anth 220 Indians of Middle America (4)

12 electives approved by coordinator

Minor in Multicultural Studies (31 credits)

Coordinator: Dieter Beminger

Any five of the following:

MCS 102 The Contemporary American Indian (4)

MCS 103 The Contemporary Chicano (4)

MCS 202 Traditional American Indian Culture (4)

MCS 203 Chicano Culture (4)

Either MCS 209 African American Humanities: Roots (4)

or MCS 210 20th Century African American Humanities(4)

MCS 211 Contemporary African American Community (4)

Elective Courses (11 credits)

Subject to the approval of the Humanities/Multicultural Studies Department, elective courses may be taken in the following departments or programs: American Studies, Anthropology, Criminal Justice, Economics, History, Multicultural Studies, and Women's Studies. In some cases, courses from other departments or programs may be approved as electives.

Proposals for minors should be reviewed and approved by the Humanities/Multicultural Studies Department.

HUMANITIES COURSES

Hum 104 Scandinavian Origins (4)

Early Scandinavian culture with emphasis on mythology and Icelandic saga.

Hum 105 Modern Scandinavian Culture (4)

Modern Scandinavian culture and its 19th century antecedents.

Hum 106 The Scandinavian Self (4)

The Scandinavian self as seen in the arts and ideas of the Scandinavian societies.

Hum 131 Special Topics in the Humanities (4)

Topics developed around the special interests of students and instructors. May be repeated for credit as topics vary.

Hum 201 Humanities Through The Arts (4)

(FWS)

An exploratory approach to the arts which acquaints students with the basic elements of representative art forms.

Hum 211-212-213 Perspectives on Society, Perspectives on Ultimate Reality, Perspectives on the Self (4 each) (FWS)

Basic ideas and art forms of western civilization studied within a thematic context.

Hum 214-215-216 Classical and Medieval Worlds, Renaissance through 18th Century, Romanticism and the Modern World (4 each) (FWS)

A chronological approach to the basic ideas and art forms of western civilization. May be repeated for credit as course material and emphasis change.

Hum 217 Latin American Humanities (4) (F)

An introduction to the culture of Latin America through works selected for the insights they provide into the social and historical reality of the area as well as for their artistic merit.

Hum 218 American Indian Belief Systems (4) (FW)

(Same as MCS 218)

Hum 227 Russian Humanities (4) (S)

An introduction to the culture of Russia through works selected for the insights they provide into the social and historical reality of the Soviet Union as well as for their artistic merit with concentration in the society of the last decades before the Revolution.

Hum 237 Canadian Humanities (4) (S)

An introduction to Canadian social and cultural life through works selected for the insights they provide into the distinctively Canadian features of North American experience as well as for their artistic merit.

Hum 310(g) Women's Studies (4) (FWS)

Interdisciplinary 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 312 Women and the Humanities (4) (W)

An examination of painting, sculpture, novels, songs and instrumental music by women, as well as creative work from the traditional world of women.

Hum 314 European Humanities (16) (S)

A study of European social and cultural life, including a general lecture series and related classes in special subjects at the Centre for Medieval and Renaissance Studies at Oxford, England, followed by a study tour of continental locations, chosen for their artistic, cultural and historical importance.

Hum 321 Independent Study (1-8)

Prerequisite: Humanities Liberal Arts requirement completed, and consent of instructor. May be repeated twice to a maximum of 8 credits.

Hum 331(g) Topics in Humanities (4)

Topics appropriate to upper-division students, developed around the interests of students and instructors.

Hum 333 Love in the West (4)

Examines love in the West, following Plato's Eros through his metamorphoses in medieval courtly and mystical love and later variants in the Metaphysical, Romantic and Modern poetic traditions. About one-third of the course will be devoted to lyric poetry. Prerequisite: Course in classical literature or thought; e.g. Hum 214, Eng 234, Phil 250, 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. Prerequisite: 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.

Hum 412(g) Seminar in Women's Studies

Study of selected problems in Women's Studies through the Humanities, employing the objectives of interdisciplinary humanities and multicultural studies. Specific topics will be announced in class schedule. Students may register more than once when content varies. Recommended for Women's Studies Minors as substitute for Humanities 410(g), Directed Readings in Women's Studies. Prerequisite: Hum 310 or one other class in Women's Studies or consent of instructor.

MULTICULTURAL STUDIES COURSES**MCS 102 The Contemporary American Indian (4) (fw)**

The experience of the indigenous peoples of North America, focusing on the past decade of both reservation and urban Indians.

MCS 103 The Contemporary Chicano (4) (S)

Political, economic and social developments within the Chicano community.

MCS 202 Traditional American Indian Cultures (4) (FWS)

A historical perspective on living, traditional cultures of American Indian groups. Topics include tribal entities, religion, arts, life-styles and ecological adaptations.

MCS 203 Chicano Culture (4) (Fw)

Key aspects of Chicano culture with an emphasis on literature, history and philosophy.

MCS 209 African American Humanities: Roots (4) (Fws)

A multidisciplinary survey of the arts and humanities of African Americans from cultural resources of African traditional roots and American slave experiences to beginning of 20th century.

MCS 210 20th Century African American Humanities (4) (fws)

A multidisciplinary survey of the forces shaping the arts and humanities of African Americans in the 20th century.

MCS 211 Contemporary African American Community (4) (fws)

Political, economic, and social issues of contemporary African Americans within the United States.

MCS 218 American Indian Belief Systems (4) (fW)

American Indian Belief Systems focuses on common thematic elements found throughout diverse North American Indian communities. It introduces the students to the sacred ways of the Indians through oral tradition, songs, prayers, interviews, speeches and contemporary literature. There will be a critical examination of the relationships between world view, spiritualism, technologies and the human and non-human communities. No prerequisites.

MCS 219 Plains Indian Cultures (4) (ws)

This course focuses on past and present cultures of Plains Indians. Individual tribal traditions are compared and contrasted. The interdependence of techno-environment, socio-political organization and ideology is stressed, with emphasis on culture change. Present day adaptations to reservation and urban life are examined.

MCS 225 Ojibwe Culture (4) (f)

Examines Ojibwe Culture from a holistic perspective. The people, their land, their way of life, their world view and religious beliefs will be studied. Emphasis will be placed on traditional material and primary sources.

MCS 270 Indian Education: North Dakota (3)*(fs)*

An overview of the nature, purpose, history, philosophy and programs of traditional and contemporary American Indian education. Designed especially, but not exclusively, to assist students who plan to work in some area of education where an understanding and appreciation of Indian culture is essential. (Requirement for teaching in North Dakota)

MCS 300 Topics in Multicultural Studies (3-4)

Exploration of a specific topic. May be repeated for credit as topics vary.

MCS 301 African American Music (4)

A survey of the contributions in music by African Americans.

MCS 311 African American Art (3)

An appreciation and understanding of the art and artists of Black America from the beginning of their folk art expression to the present.

MCS 332 Indians of the Southwest (4) (f)

Indians of the Southwest is a course which focuses on the cultures of American Indian Peoples of Arizona, New Mexico and adjacent areas. It introduces students to the ways of life of selected communities through oral tradition, beliefs, intercultural contacts and arts.

MCS 461 Readings: African American (1-3)

Independent reading and research on the Afro-American. May be repeated for credit.

MCS 462 Readings: American Indian (1-3)

Independent reading and research on the American Indian. May be repeated for credit.

MCS 463 Readings: Chicano (1-3)

Independent readings and research on the Chicano. May be repeated for credit.

Individualized Major

For requirements of the Individualized Major, see the Academic Programs section of this Bulletin.

**Industrial Studies Department
Hagen 103, (218) 236-2104**

Chair: Wade T. Swenson

Faculty: Clyde O. Kale, Reza A. Maleki, Michael L. Ruth (on leave 91-92), Howard R. Schmidt, Scott C. Seltveit, Duane Strand (91-92)

The Department of Industrial Studies offers a variety of programs to prepare not only talented educators for the teaching fields, but also skilled managers of technology for the growing demands of business and industry. Students can choose from the following Bachelor's degrees: Industrial Education, Graphic Communications, Industrial Technology with program options including Construction Management, Industrial Distribution, or Industrial Technology/Management. Two minors in Industrial Technology—Industrial Management and Construction Management—are also offered.

INDUSTRIAL STUDIES CURRICULA**Major in Industrial Education B.S. Degree**

The Industrial Education major provides the necessary background to teach secondary level industrial technology education in any of these areas: construction, communications, electronics/energy, manufacturing and transportation. Technology courses and curriculum courses provide students an orientation and preparation for Technology Education. Students must complete the professional secondary education course sequence to meet graduation and licensure requirements. (See Secondary Education.) Career opportunities in industrial training are rapidly expanding and education graduates with industrial experience are being sought out for these positions.

Core Requirements (40 credits)

Communications Area

Eng 113 Engineering Graphics I (4)

IndS 116 Computer Aided Drafting/Design (4)

IndS 250 Explorations in Graphic Communications (4)

Construction Area

IndS 120 Wood Technology I (4)

IndS 201 Construction Materials and Processes (4)

Electronics/Energy Area

IndS 270 Passive Circuits I (4)

IndS 272 Linear Circuits I (4)

Manufacturing Area

IndS 231 Welding Processes (4)

IndS 232 Machine Technology I (4)

Transportation Area

IndS 295 Automechanics (4)

General Requirements (20 credits)

IndS 334 Materials Science (4)

IndS 439 Industrial Education Teaching Methods (4)

IndS 493 Industrial Safety & Accident Prevention (4)

IndS 495 Foundations of Industrial Education (4)

IndS 497 Industrial Education Curriculum Design (4)

Industrial Education Concentrations—

(one required)

Communications (16)

IndS 215 Architectural Drafting & Building Codes (4)

IndS 350 Layout and Design for Printing (4)

IndS 351 Offset Printing I (4)

Choice of One:

IndS 317 Technical Illustration I (4)

IndS 352 Offset Printing II (4)

Construction (16)

IndS 215 Architectural Planning & Building Codes (4)

IndS 220 Wood Technology II (4)

IndS 325 Construction Estimating & Specifications (4)

IndS 326 Mechanical/Electrical Systems (4)

Electro-Mechanical (16)

IndS 233 Introduction to Robotics (4)

IndS 290 Fluid Power Mechanics (4)

IndS 371 Industrial Circuits (4)

IndS 372 Digital Circuits I (4)

Electronics (16)

IndS 271 Passive Circuits II (4)

IndS 370 Linear Circuits II (4)

IndS 371 Industrial Circuits (4)

IndS 372 Digital Circuits I (4)

Manufacturing (16)

IndS 232 Machine Technology I (4)

IndS 233 Introduction to Robotics (4)

IndS 332 NC/CNC Part Programming (4)

IndS Manufacturing Elective (4)

Required Related Electives (15 credits)

Phy 111 Elementary Physics I (4)

Engl 287 Technical Report Writing (4)

Math 121 Intermediate Algebra (4)

Math 133 Trigonometry (3)

Major in Graphic Communications B.S. Degree

A wide variety of job opportunities exist for the graphic communication graduate. Graphic communicators have various responsibilities evolving around the production of graphic images. A graphic communicator may work in areas such as photography, layout and design, computer graphics, CADD or others. A graphic communicator may organize multi-media presentations involving slides, photographs, displays, etc. He or she may sometimes produce technical drawings and illustrations for service or parts manuals. They may find jobs as a production manager in an advertising agency, commercial printing company or a design firm. This type of position coordinates all phases of graphics, publicity and/or product support materials. The Printing Industry of America and the Graphic Arts Technical Foundation estimate 60,000 job openings a year in this field.

Core Requirements (56 credits)

IndS 113 Engineering Graphics I (4)

IndS 252 Computer Graphics Production (4)

IndS 317 Technical Illustration I (4)

IndS 318 Technical Illustration II (4)

IndS 350 Layout & Design for Printing (4)

IndS 351 Offset Printing/Photo I (4)

IndS 412 Senior Project (2)

Art 123 Foundations Drawing I (3)

Art 125 Foundations Design Basic (3)

Art 152 Intro to Pictorial Illustration (4)

Art 154 Intro to Graphic Design (4)

MC 345 Multi-Media Communications (4)

Engl 287 Technical Report Writing (4)

Mgmt 360 Principles of Management (4)

Mktg 310 Principles of Marketing (4)

Photography: 6 credits from Art or Mass Communications

Art 230 Basic Photo (3)

Art 200F Photo Studio (3) **or**

MC 230 Communications Photo I (3)

MC 430 Communications Photo III (3)

Related Area Electives (10 credits)

10 credit hours of related electives to be worked out with the consent of advisor.

Major in Construction Management Program

The Construction Management program, a component of Industrial Technology B.S. Degree, prepares students for employment at a professional level. Graduates are equipped with abilities and skills to execute architectural and engineering designs. The professional construction manager possesses skills comprising the entire construction process. Graduates are qualified for a wide range of positions including estimator, job superintendent, project inspector, insurance inspector, building inspector, purchasing agent, safety engineer, and expeditor. The program consists of courses in Industrial Studies, Engineering, Accounting, and Management. There is a great demand for top quality Construction Management graduates. The CM graduate will be able to estimate, plan, and schedule construction work for effective management of personnel, materials, and equipment at the lowest cost and shortest time while assuring successful project completion.

Program Requirements (109 credits)

Acct 229 Principles I: Financial (4)

Acct 230 Principles II: Financial (4)

Acct 305 Business Law I (4)

Acct 310 Managerial Accounting (4)

Eng 113 Engineering Graphics I (4)

Eng 200 Surveying I (3)

Eng 223 Statics for Technologists (4)

Eng 225 Strengths of Materials for Technologists (4)

Eng 291 Materials Inspection and Testing (2)

Engl 287 Technical Report Writing (4)
 Finc 354 Principles of Real Estate I (4)
 IndS 116 Computer-Aided Drafting/Dsgn (4)
 IndS 201 Construction Materials & Processes (4)
 IndS 215 Architectural Planning & Codes (4)
 IndS 325 Construction Estimating & Specifications (4)
 IndS 326 Mechanical/Electrical Systems (4)
 IndS 328 Construction Planning & Scheduling (4)
 IndS 329 Construction Equipment & Methods (4)
 IndS 424 Soil Mechanics (4)
 IndS 428 Construction Management & Contracts (4)
 IndS 429 Design of Steel, Concrete, & Wood Structures (4)
 IndS 493 Industrial Safety & Accident Prevention (4)
 Mgmt 360 Principles of Management (4)
 Mgmt 416 Labor Economics (4)
 Mgmt 420 Organizational Theory (4)
 Mgmt 440 Personnel Management (4)
 Mgmt 451 Organizational Behavior (4)
 Mgmt 456 Management of Information Systems (4)

Required Related Courses (35 credits)

ComS 145 Data Processing (4)
 Econ 202 Principles I: Micro (4)
 Econ 204 Principles II: Macro (4)
 Econ 206 Principles III: International (4)
 Math 121 Intermediate Algebra (4)
 Math 133 Trigonometry (3)
 Math 273 Linear Algebra/Applied Calculus I (4)
 Psy 113 General Psychology (4) **or**
 Soc 110 Intro to Sociology (4)
 Psy 119 Social Behavior (4) **or**
 Soc 205 Social Psychology (4)

Major in Industrial Distribution Program

Industrial Distribution, a component of Industrial Technology B.S. Degree, concentrates on wholesale distribution of manufactured products. MSU offers one of less than 20 such programs in the United States. Majors are taught practical applications of technology and the skills of business. Graduates are qualified for a wide range of positions including inside sales, inventory management, purchasing, outside sales, credit and financial management, and warehouse management. The program has an industrial marketing and sales orientation; however, positions in operations are also available. Regional and national distribution organizations provide support with scholarships and invitations to conventions for ID majors.

Program Requirements (88 credits)

Acct 229 Principles I: Financial (4)
 Acct 230 Principles II: Financial (4)
 Acct 305 Business Law I (4)
 Engl 287 Technical Report Writing (4)
 Finc 340 Corporate Finance (4)
 Eng 113 Engineering Graphics I (4)
 IndS 116 Computer Aided Drafting/Design (4)

IndS 120 Wood Technology I (4)
 IndS 201 Construction Matls./ Processes (4)
 IndS 230 Manufacturing Processes (4)
 IndS 234 Metal Casting (4)
 IndS 270 Passive Circuits I (4)
 IndS 272 Linear Circuits I (4)
 IndS 290 Fluid Power Mechanics (4)
 IndS 334 Materials Science (4)
 IndS 371 Industrial Circuits (4)
 IndS 483 Facility Design (4)
 IndS 493 Industrial Safety & Accident Prevention (4)
 Mgmt 360 Principles of Management (4)
 Mktg 310 Principles of Marketing (4)
 Mktg 315 Industrial Marketing (4)
 Mktg 320 Introduction to Logistics (4)

Required Related Courses (16 credits)

Econ 202 Principles I: Micro (4)
 Econ 204 Principles II: Macro (4)
 Math 273 Linear Algebra/Applied Calculus I (4)
 Math 274 Introduction to Statistics I (4)

Major in Industrial Technology/Management Program

The Industrial Management program is a component of the Industrial Technology B.S. Degree. In addition to the university Liberal Arts requirements, the students enrolled in this program need to satisfy the management core requirements and select an area of technical concentration (electronics or electro-mechanical). The management core, which is the essence of the program, provides the students with industrial engineering background in time study, quality control, facility layout, and production management. The concentration areas help the students to gain knowledge and experiences in CAD/CAM, computer integrated manufacturing including applications of advanced electronics such as computers, robotics, numerically controlled systems, programmable logic controllers and other manufacturing automation applications.

The management core and technical concentration courses, along with a team of high caliber faculty, provide the students with a valuable tool to effectively interact with engineers, technicians, and upper management. These factors have been the key to the success of our Industrial Technology students entering the job market or continuing their education by seeking more advanced degrees.

Career opportunities for Industrial Technologists are spread across many disciplines, and graduates of our program have become a source of management talent in a wide variety of industries. The titles held by some of the Industrial Technology graduates include: Industrial or Manufacturing Engineer, Quality Control Manager, and Engineering Sales. The type of companies offering jobs to our graduates are very diverse and include aerospace, automotive, electronics, food, health services, steel, and telecommunications.

Core Requirements (56 credits)

ComS 130 Basic Programming (4)
Engl 287 Technical Report Writing (4)
Eng 113 Engineering Graphics (4)
IndS 116 Computer Aided Drafting/Design (4)
IndS 230 Manufacturing Processes (4)
IndS 380 Time & Motion Studies (4)
IndS 382 Manufacturing Automation (4)
IndS 383 Manufacturing Cost Analysis (4)
IndS 482 Statistical Quality Control (4)
IndS 483 Facility Design (4)
IndS 493 Industrial Safety & Accident Prevention (4)
Mgmt 360 Principles of Management (4)
Mgmt 440 Personnel Management (4)
Mgmt 450 Production/Operations Management (4)

Technical Concentration (32 credits)

Choose 1 group from the following 2 groups:

Electronics (32)

IndS 270 Passive Circuits I (4)
IndS 271 Passive Circuits II (4)
IndS 272 Linear Circuits I (4)
IndS 370 Linear Circuits II (4)
IndS 371 Industrial Circuits (4)
IndS 372 Digital Circuits I (4)
IndS 470 Digital Circuits II (4)
IndS 471 Communication Systems (4)

Electro-Mechanical (32)

IndS 233 Introduction to Robotics (4)
IndS 270 Passive Circuits I (4)
IndS 272 Linear Circuits I (4)
IndS 290 Fluid Power Mechanics (4)
IndS 332 NC/CNC Part Programming (4)
IndS 334 Materials Science (4)
IndS 372 Digital Circuits I(4)
IndS 390 Machine System Analysis (4)

Required Related Courses (36 credits)

Chem 111 General Chemistry I (4)
Chem 111L General Chemistry Laboratory I (1)
Math 121 Intermediate Algebra (4)
Math 133 Trigonometry (3)
Math 273 Linear Algebra/Applied Calculus I (4)
Math 274 Introduction to Statistics I (4)
Phy 111 Elementary Physics I (4)
Phy 112 Elementary Physics II (4)
Psy 113 General Psychology (4) **or**
Soc 110 Intro to Sociology (4)
Psy 119 Social Behavior (4) **or**
Soc 205 Social Psychology (4)

Minors in Industrial Technology

Industrial Technology/Management (36 credits)

Core Requirements (12 credits)

Choose 3 from the first group of courses:

Eng 113 Engineering Graphics I (4)
IndS 116 Computer Aided Drafting/Design (4)

IndS 230 Manufacturing Processes (4)
IndS 380 Time & Motion Studies (4)
IndS 382 Manufacturing Automation (4)
IndS 482 Statistical Quality Control (4)
IndS 483 Facility Design (4)
IndS 493 Industrial Safety & Accident Prevention (4)

Technical Concentration (24 credits)

Choose 1 group from the following 2 groups:

Electro-Mechanical (24)

IndS 233 Introduction to Robotics (4)
IndS 270 Passive Circuits I (4)
IndS 272 Linear Circuits I (4)
IndS 290 Fluid Power Mechanics (4)
IndS 332 NC/CNC Part Programming (4)
IndS 372 Digital Circuits I (4)

Electronics (24)

IndS 270 Passive Circuits I (4)
IndS 271 Passive Circuits II (4)
IndS 272 Linear Circuits I (4)
IndS 370 Linear Circuits II (4)
IndS 372 Digital Circuits I (4)
IndS 470 Digital Circuits II (4)

Construction Management Program

Requirements (35 credits)

Eng 113 Engineering Graphics I (4)
Eng 200 Surveying I (3)
IndS 201 Construction Processes (4)
IndS 215 Architectural Planning & Codes (4)
IndS 325 Construction Estimating & Specifications (4)
IndS 326 Mechanical/Electrical Systems (4)
IndS 328 Construction Planning & Scheduling (4)
IndS 428 Construction Management & Contracts (4)
IndS 493 Industrial Safety & Accident Prevention (4)

INDUSTRIAL STUDIES COURSES

IndS 113 Engineering Graphics I (4) (FWS)

Principles and applications of graphical communication and analysis. Content includes geometric construction, multiview drawings, dimensioning, auxiliary views and computer-aided drafting. (Same as Engr 113)

IndS 116 Computer-Aided Drafting/Design (4) (FWS)

An introductory course in computer-aided design emphasizing applications in manufacturing and architecture. Course content includes drawing creation utilizing cartesian and polar coordinates, grids, dimensioning, and editing use of trim, move, mirror and layering. Prerequisite: Drawing course or consent of instructor.

IndS 117 CAD-MECHANICAL (4) (FS)

An introduction to computer-aided drafting/design (CAD). Instruction utilizes CADKEY, a fully integrated 2D/3D CAD program which creates part geometry with a menu structure. Both 2D/3D construction techniques are covered and solid geometry is introduced.

IndS 118 CAD-ARCHITECTURAL (4) (W)

An introduction to computer-aided drafting/design (CAD). The course incorporates DataCAD software which is an architectural-oriented CAD package. The software fully integrates 2D and 3D images as well as 3D modeling and rendering options.

IndS 120 Wood Technology I (4) (F)

Basic processes, safety, proper tool and machine usage. Laboratory design and fabrication of wood products of choice.

IndS 201 Construction Materials and Processes (4) (F)

A study of basic theories and principles of construction materials and methods. The course will follow the construction specification index format, emphasizing divisions pertaining to concrete, site work, wood and steel.

IndS 214 Descriptive Geometry (4) (S)

Fundamental principles of orthogonal projection, true length lines, angles between planes, development of surfaces and intersection of solids.

IndS 215 Architectural Planning & Codes (4) (S)

A study of architectural drawing which stresses lettering, conventional symbols, graphic techniques of construction drawing and building codes. An analytical study of contemporary architecture, building materials and construction techniques are important phases of the course.

IndS 220 Wood Technology II (4) (W)

Production techniques, operation, maintenance, jigs and fixtures for fabrication of wood products. Use of machines for maximum labor saving and quality production. Prerequisite: IndS 120.

IndS 230 Manufacturing Processes (4) (F)

A study of traditional and non-traditional industrial processes and equipment utilizing group technology taxonomy. Hands-on experience in laboratories will sublimate the students' understanding of basic skills in machining, welding and wood technology.

IndS 231 Welding Processes (4) (S)

An introduction to welding processes, safety, energy sources for welding, metallurgy, materials, equipment study, weld inspection and testing, weld symbols and blueprint reading.

IndS 232 Machine Technology I (4) (W)

This is the first of two courses dealing with metal machining operations. Content includes basic lathe, milling machine, surface grinder, punch press and press break operations. Prerequisite: IndS 113.

IndS 233 Introduction to Robotics (4) (F)

Course content includes robot components, types of robots, applications of robots and the social and economic problems involved when introducing robotics into the work place.

IndS 234 Metal Casting (4) (W)

Course content includes safety instruction in melting metal, lighting furnaces and pouring. Sand mold making, sand analysis and maintenance, core making and introduction to patternmaking.

IndS 237 Machine Technology II (4) (S)

Course content includes advanced metal machine tool operation especially as they are used in mass production operations. Prerequisite: IndS 232.

IndS 250 Explorations in Graphic Communications (4) (F)

Information and experiences in various graphic communication processes including offset, lithography, screen, process printing and photography. Examination of the graphic communications industry and career potential in the field.

IndS 252 Computer Graphics Production (4) (Fws)

Desktop publishing to include production of graphics, illustrations, typesetting, camera-ready art by using various personal computers and software. Main emphasis is on how and why this equipment is used in the graphic communications industry. Not open to students having completed MC 215.

IndS 270 Passive Circuits I (4) (F)

A study of voltage, current, power, magnetism, capacitance and inductive parameters in D.C. and A.C. circuits. Prerequisite: Math 121 or equivalent.

IndS 271 Passive Circuits II (4) (W)

Topics include Thevenin's theorem, superposition theorem, branch current analysis and phasor analysis of complex circuits. Prerequisite: IndS 270 and Math 133.

IndS 272 Linear Circuits I (4) (S)

D.C. and elementary small-signal analysis of linear solid-state circuits. Topics include the study of semiconductor diodes, BJTs, FETs and circuits employing these devices. Prerequisite: IndS 270.

IndS 290 Fluid Power Mechanics (4) (F)

This course includes the theory and application of hydraulic and pneumatic components and systems, from basic fluid power symbols and components to calculation and design of simple industrial machines.

IndS 295 Automechanics (4) (S)

Engine tuneup, tires, brakes and auto repair tools and equipment. Lectures, demonstrations and actual practice work on students' automobiles.

IndS 317 Technical Illustration I (4) (W)

Technical art techniques including pictorial line drawing utilizing various media and techniques including color materials, shading sheets, ink line and others, applied in the production of camera-ready illustrations for publication. Prerequisite: Art 123, 125.

IndS 318 Technical Illustration II (4) (S)

Camera-ready illustration: pictorials, orthographics, schematics and graphs for operations, maintenance, parts identification, marketing publications. Prerequisite: IndS 113.

IndS 319 Airbrush Techniques (4) (S)

Airbrush rendering techniques in color and black-and-white, for advertising and photo retouching, and painting for technical and commercial art. Prerequisite: IndS 317.

IndS 325 Construction Estimating & Specifications (4) (W)

A study of basic principles and theories of estimating including quantity take-off, work classifications, specifications and blueprint reading.

IndS 326 Mechanical/Electrical Systems (4) (F)

A study of mechanical construction including heating, cooling, ventilation, water supply, waste disposal and electrical distribution. Temporary services and code requirements are analyzed.

IndS 328 Construction Planning & Scheduling (4) (W)

A study of the Critical Path Method (CPM) and Program Evaluation and Review Techniques (PERT) as techniques of monitoring residential, commercial and heavy-highway construction projects. Job cost data and reporting are analyzed.

IndS 329 Construction Equipment & Methods (4) (S)

A study of planning, estimating and managing construction equipment in a manner which will attain the most efficient result.

IndS 332 NC/CNC Part Programming (4) (W)

This course is designed to familiarize students with NC/CNC equipment and the languages used to program them, as well as provide experiences in practical parts programs. Prerequisite: IndS 230.

IndS 334 Materials Science (4) (F)

A study of bonding structures; mechanical and thermal properties; and the electrical/chemical characteristics of materials used in the production of manufactured products.

IndS 350 Layout and Design for Printing (4) (Fs)

Principles of design and basic skills in layout. Instruction in paste-up, color, communication with camera, press and bindery personnel.

IndS 351 Offset Printing I (4) (Fw)

Basic offset reproduction fundamentals. High contrast line and half tone photography specifically utilized in the graphic reproduction processes. Graphic arts darkroom procedures and offset press operations, basic bindery operations.

IndS 352 Offset Printing II (4) (S)

Halftone, duo-tone, color separation and special effects techniques as related specifically to graphic reproduction processes. Advanced darkroom procedures and offset press is emphasized. Prerequisite: IndS 351.

IndS 356 Screen Printing Technology (4) (W)

A study of basic theories and practices in commercial screen printing applications. Focus is on multiple color and multiple substrate processes. Prerequisite: IndS 252, 350, 351.

IndS 370 Linear Circuits II (4) (F)

An analysis of small and large-signal discrete and integrated linear circuits. Prerequisite: IndS 272.

IndS 371 Industrial Circuits (4) (W)

Course content includes a study of the devices, circuits and systems used in automated manufacturing. Topics include static control devices, generators/motors, sensors, control systems and the technology utilized to implement automated manufacturing. Prerequisite: IndS 372.

IndS 372 Digital Circuits I (4) (W)

Course content includes digital gating circuits, digital IC logic families, combinational logic circuits, flip-flops, registers, counters, memory circuits and an introduction to the microprocessor. Prerequisite: IndS 272.

IndS 380 Time and Motion Studies (4) (F)

A study and analysis of productive and non-productive work elements for the purpose of productivity improvements and establishing time standards. Prerequisite: Junior standing.

IndS 382 Manufacturing Automation (4) (W)

A study and analysis of automated manufacturing systems, their components and application. Prerequisite: Junior standing, IndS 230.

IndS 383 Manufacturing Cost Analysis (4) (Wf)
Cost analysis to predict the expenses that incur to manufacture a product. Prerequisite: IndS 380 and IndS 382 or concurrent enrollment in IndS 382.

IndS 390 Machine System Analysis (4) (F)
Course content includes an introduction to stress/strain relationships, fatigue strength, permanent or threaded fasteners, shafting and springs. Course content also includes elements of machine design and how to apply them to everyday situations to ensure that component failures do not occur. Prerequisite: IndS 113, IndS 334.

IndS 395 Advanced Diagnosis and Tuneup (4) (S)
Topics include emission control systems, oscilloscope analyzers, cylinder leak tests and dynamic timing. Students will organize and operate an automotive diagnostic clinic as a final activity. Prerequisite: IndS 295.

IndS 412 Senior Project (2) (W)
Planning a portfolio, resumes, investigating the illustrator's image and the types of companies that employ graphic communicators. Prerequisite: Senior standing.

IndS 423 Construction Estimating II (4) (F)
A study of computer estimating applied to pricing of materials, labor, equipment and overhead in commercial construction projects. Job cost accounting procedures are emphasized. Prerequisite: IndS 325 or consent of instructor.

IndS 424 Soil Mechanics (4) (F)
A study of soils, soil behavior, compaction applications, foundation techniques and concepts of soil mechanics.

IndS 428 Construction Management & Contracts (4) (S)
A study of commercial construction managerial principles, supervision and contract administration as applied to middle management. An investigation of construction business practices, involving government regulations, change order administration and bond company procedures.

IndS 429 Design of Steel, Concrete & Wood Structure (4) (S)
Building principles of design and fabrication using steel, concrete and wood materials.

IndS 439 Industrial Education Teaching Methods (4) (S)
Presentation and application of concepts and principles that apply to teaching industrial technology education courses. Includes organization and management of facilities, teaching techniques and media for laboratory oriented curriculum.

IndS 450 Graphic Communications Technology (4) (S)
Advanced study of graphic arts, historical backgrounds, organization of the industry, production methods, new research, experimentation, future trends. Prerequisite: IndS 352.

IndS 452 Printing Estimating (4) (S)
A study of basic principles and theories of printing estimating. Computer based estimating programs and traditional estimating methods studied. Prerequisite: IndS 252, 350, 351, and Math 121, or consent of instructor.

IndS 469 Student Internship (3-16) (Fws)
Available to all majors enrolled in the Department of Industrial Studies. Approved practical work experience. Supervised by departmental faculty.

IndS 470 Digital Circuits II (4) (S)
A study of microprocessor architecture, interfacing requirements, peripherals and general programming techniques. Prerequisite: IndS 372.

IndS 471 Communication Systems (4) (F)
A survey course in communication systems. Content includes a study of AM and FM broadcast systems, SSB, television, pulse communications, transmission lines, antennas and microwaves. Prerequisite: IndS 370.

IndS 480(g) Special Problems (Topical) (1-6) (Fws)
Individual study not offered in depth in the regular curriculum. Prerequisite: Upper-class standing, consent of the instructor and department chairperson.

IndS 482 Statistical Quality Control (4) (Ws)
A study of manufacturing process control, acceptance sampling and reliability using statistical methods. Prerequisite: Junior standing, Math 274.

IndS 483 Facility Design (4) (S)
A study of facilities, locations, structure and planning for efficient layout and material handling systems. Prerequisite: Senior standing, IndS 380 and 382, or consent of instructor.

IndS 485 Manufacturing Resource Planning (MRPII) (4) (S)
Application of computer-based systems for the planning and control of manufacturing resources. The students make extensive use of commercial software for problem solving in the areas of production planning, material requirements planning, capacity planning, and product costing. Prerequisite: IndS 383 or consent of instructor.

IndS 490 Microcomputer-Fluid Power Interfacing (4) (W)

Topics include fluid power control systems, microprocessors, programmable controllers, sensors and microprocessor-fluid power interfacing applications. Prerequisite: IndS 290, IndS 372 and ComS 130 or 140.

IndS 491 Industrial Education Equipment Maintenance (4)

Includes repair and maintenance of industrial and vocational education lab equipment. Student will repair, lubricate and make machine adjustments in the lab activity.

IndS 493(g) Industrial Safety & Accident Prevention (4) (S)

A study of occupational hazards, OSHA regulations and fundamentals of accident prevention will be emphasized. Students will study safety procedures for schools, plants, factories and construction sites.

IndS 495 Foundations of Industrial Education (4) (W)

A study of the philosophy of industrial education, from a historical perspective, present events and an analysis of future trends.

IndS 497 Industrial Education Curriculum Design (4) (S)

Design and development of a futuristic comprehensive industrial arts curriculum. Students also design and develop a secondary vocational education program.

International Business

See Business Administration for curricula.

Language Department MacLean 271, (218) 236-2912

Chair: Cheri Brown

Faculty: Roman Alvarez, Paula Brekke, John Hall, Hi-Sook Hwang, Mary G. Johnson, James Kaplan, Edith Krause, Jenny Lin, Xue Luo, Teresinha Pereira, G. Theodore Schaum

AREAS OF STUDY: Chinese, French, German, Japanese, Norwegian, Spanish, Swedish

The department offers B.A. and B.S. major and minor degree programs in French, German and Spanish, and two-year programs in Norwegian, Chinese and Japanese. The department also participates in the Scandinavian Studies programs described elsewhere in this section of the catalog.

Students will find it advisable to begin the study of a foreign language or to continue with a language they have studied previously by beginning in the fall quarter of their freshman year.

Several departments—including Biology, Chemistry, English, History, Philosophy, Political Science, Psychology and Sociology—either require or strongly recommend that their B.A. majors study at least one foreign language, especially if they intend to pursue graduate degrees. International Business requires two years of a foreign language.

Teaching Foreign Languages

Students who plan to teach foreign languages in elementary or secondary public schools will ordinarily elect the B.S. major or minor.

All students, including transfer students, who apply for the B.S. degree with a language major must have completed a minimum of 15 credits of upper-level course work in the department, including Languages 340, Methods of Teaching Foreign Languages. Candidates for teaching licensure must be evaluated by the department to assure that their preparation meets the standards of the State Department of Education before the application for teaching licensure is approved. All students seeking a B.S. major or minor in the department should establish and maintain close contact with a departmental advisor to be certain that satisfactory progress is being made toward the degree. The department chair can assign you to the appropriate advisor.

Graduate Study in Foreign Languages

A reading knowledge of a second foreign language is essential to graduate study in languages. The student who expects to seek a graduate degree is advised to plan an undergraduate curriculum with a minor in a second language or with a double major.

Previous Instruction

Students who have had no previous instruction in a foreign language should enroll in a beginning language course (101).

Students with one or two years of high school language study should not ordinarily enroll in 101 courses; they may enroll in 102 or 103 language courses upon consultation with the department.

Students with two or three years of high school language should enroll in an intermediate course (201). Without written permission of the department chairperson, they cannot enroll in first-year courses for credit.

Those students who successfully completed four or more years in a high school language should register for an advanced course, usually 301 (Conversation and Composition).

Consult with the department chair if you have questions concerning placement. In addition, instructors in the department will undertake placement evaluations in their classes during the first week of fall quarter.

LANGUAGE CURRICULA

Major in Languages B.A. Degree

The program is designed as a “secondary” complementary major for students whose primary major may lie in one of the academic fields listed below and for those whose career plans require proficiency in foreign languages and familiarity with their ethnic, cultural and social background: Anthropology-Sociology, Art, Business, English, Health Services, History, Mass Communications, Music, Philosophy, Political Science, Social Services, Speech-Theatre.

Corequisite: Students who wish to pursue the Major in Languages must simultaneously declare a “primary” major in another academic program.

Major Course Requirements (60 credits)

Intermediate and advanced language and culture/civilization courses in Language I (36 credits), e.g., (French: 36/German: 36/Spanish: 36).

Beginning and intermediate language courses in Language II (24 credits), e.g., (French: 24/German: 24/Norwegian: 24/Spanish: 24).

Prerequisites to Language Majors

In each language major, the beginning level (101-102-103) is considered to be a prerequisite and is not applicable to the major. However, the sequence or any quarter thereof may be applied to the Liberal Arts Requirement.

Major in French B.A. Degree (56 credits)

Core Requirements (36 credits)

French 201-202-203 Intermediate French I-II-III (12)
French 301-302-303 French Conversation and Composition I-II-III (12)
French 311-312-313 French Literature I-II-III (12)

Electives in French (20 credits)

At least 8 credits in advanced language courses (from French 401, 402, 403)
At least 12 credits in literature and culture/civilization courses.

In addition to the courses in French required for the major, selections from the following courses in related fields are strongly recommended as electives:
Art 233-234-235 History of Art in the Western World I-II-III
Art 430-431-432 Modern Art I-II-III
Engl 380 World Literature
Hist 315-316-317 Medieval Europe, Renaissance, Reformation

Hist 325 French Revolution and Napoleon
Hist 338-339 Intellectual History of Western Civilization I-II
Pol 250 Comparative Governments of Western Europe
Pol 410 Topics in Western Political Thought
Spch 322-324-326 Development of Drama I-II-III

Electives in related areas should be chosen in consultation with one’s advisor.

Major in French B.S. Degree (Teaching) (59 credits)

Same as requirements for B.A. major (56 credits), plus Languages 340, Methods and Materials in Teaching Foreign Languages (3 credits).

Electives in Related Fields

See B.A. Major for recommended electives in related fields.

Note: All Teacher Education Requirements must be fulfilled to complete this major. See Teacher Education Requirements in Education Department. In addition, a language proficiency test in French by the Department of Languages is required.

Minor in French (36 credits)

Same as Core Requirements for B.A. Major

Electives in Related Fields

See B.A. Major.

Minor in French (Teaching) 39 credits

Same as Core Requirements for B.A. major (36 credits), plus Languages 340, Methods and Materials in Teaching Foreign Languages (3 credits)

Electives in Related Fields

See B.A. Major for Electives

Note: This minor can be awarded only in combination with at least one teaching major.

Major in German B.A. Degree (54 credits)

Core Requirements (24 credits)

German 201-202-203 Intermediate German I-II-III (12)
German 301-302-303 Conversation and Composition I-II-III (12)

Electives in German (30 credits)

At least 8 credits in advanced language courses (from German 401, 402, 403)
At least 6 credits in culture and civilization courses
At least 16 credits in literature courses.

In addition to the courses in German required for the major, selections from the following courses in related fields are strongly recommended as electives:
Art 233-234-235 History of Art I-I I-III
Engl 380 World Literature
Hist 318-319 History of Germany I-II

Phil 250 Modern Philosophy
Phil 265 19th Century Philosophy
Pol 250 Comparative Government of Western Europe
Electives should be chosen in consultation with one's advisor.

Major in German B.S. Degree (Teaching) (57 credits)

Same as requirements for the B.A. major (54 credits), plus Languages 340, Methods and Materials in Teaching Foreign Languages (3 credits).

Electives in Related Fields

See B.A. Major for electives.

Note: All Teacher Education Requirements must be fulfilled to complete this major. See Teacher Education Requirements in Education Department. In addition, a language proficiency test in German by the Department of Languages is required.

Minor in German (35 credits)

Same as Core Requirements for B.A. Major (24 credits) plus:

At least 3 credits in culture and civilization courses.

At least 8 credits in literature courses.

Electives in Related Fields

See B.A. Major for recommended electives.

Minor in German (Teaching) (38 credits)

Same as for Minor in German, plus Languages 340, Methods and Materials in Teaching Foreign Languages.

Electives in Related Fields

See B.A. Major for recommended electives.

Note: This minor can be awarded only in combination with at least one teaching major.

SCANDINAVIAN STUDIES CURRICULA

See *Scandinavian Studies*

Major in Spanish B.A. Degree (56 credits)

Core Requirements (36 credits)

Span 201-202-203 Intermediate Spanish I-II-III (12)

Span 301-302-303 Conversation and Composition I-II-III (12)

Span 311-312-313 Hispanic Literature I-II-III (12)

Electives in Spanish (20 credits)

At least 8 credits in advanced language courses.

(from Spanish 401, 402, 403)

At least 12 credits in literature and culture/civilization courses.

In addition to the courses in Spanish required for the major, selections from the following courses in related fields are strongly recommended as electives:
Art 233-234-235 History of Art in the Western World I-II-III

Anth 215 Indians of South America
Anth 220 Indians of Middle America
Engl 380 World Literature
Hist 101-102-103 Western Civilization I-II-III
Hist 104-105-106 World History I-II-III
Hist 309 Studies in Latin American History
Hum 201 Humanities through the Arts
Hum 214-215-216 Classical and Medieval Worlds, Renaissance through 18th Century, Romanticism and the Modern World

Electives should be chosen in consultation with one's advisor.

Major in Spanish B.S. Degree (Teaching) (59 credits)

Same as Requirements for B.A. Major (56 credits), plus Languages 340, Methods and Materials in Teaching Foreign Languages (3 credits).

Electives in Related Fields

See B.A. Major for recommended electives in related fields.

Note: All Teacher Education Requirements must be fulfilled to complete this major. See Teacher Education Requirements in Education Department. In addition, a language proficiency test in Spanish by the Department of Languages is required.

Minor in Spanish (36 credits)

Same as Core Requirements for B.A. Major.

Electives in Related Fields

See B.A. Major for electives.

Minor in Spanish (Teaching) (39 credits)

Same as Core Requirements for the B.A. Major, plus Languages 340, Methods and Materials in Teaching Foreign Languages (3 credits).

Electives in Related Fields.

See B.A. Major for recommended electives in related fields.

Note: this minor can only be awarded with at least one teaching major.

CHINESE LANGUAGE COURSES

Chin 101 Beginning Chinese I (4) (F)

An introduction to the basic sounds and sentence patterns of Mandarin Chinese. Listening and speaking skills are developed through intensive aural-oral practice of daily conversation. About 120 most commonly used characters will be introduced.

Chin 102 Beginning Chinese II (4) (W)

Intensive aural-oral practice of daily conversation. More sentence patterns are introduced through dialogues and stories. About 130 more characters will be taught.
Prerequisite: Chin 101 or equivalent.

Chin 103 Beginning Chinese III (4) (S)

More complex sentence patterns are introduced through dialogues, stories and passages. Continued emphasis on listening and speaking. Development of reading and writing skills. About 150 more characters will be taught. Prerequisite: Chin 101, 102 or equivalent.

Chin 201 Intermediate Chinese I (4) (F)

Complex sentence patterns introduced through dialogues and reading passages and with abundant aural-oral practice. The skills of understanding, speaking, reading and writing are equally emphasized. About 150 characters taught. Prerequisite: Chin 101-102-103 or equivalent.

Chin 202 Intermediate Chinese II (4) (W)

Further improvement of understanding, speaking, reading and writing. About 150 characters taught. Prerequisite: Chin 201 or equivalent.

Chin 203 Intermediate Chinese III (4) (S)

More vocabulary, phrases and sentence patterns are introduced through aural-oral drills as well as reading and writing practice. About 150 more characters taught. Prerequisite: Chin 202 or equivalent.

Chin 297 Independent Study in Chinese—Intermediate Level (1-4)

Selected project as agreed upon by student and instructor. May be repeated up to a total of 8 credits. Prerequisite: Chin 103 or consent of instructor.

Chin 380 Special Topics in Chinese Literature and/or Culture (4)

In-depth study of selected topics in Chinese Literature and/or Culture. May be repeated for credit.

Chin 397 Independent Study in Chinese—Advanced Level (1-4)

Selected project of advanced studies in Chinese language, literature, or culture as agreed upon by student and instructor. Taught in Chinese. Prerequisite: Completion of Chinese 203 or consent of instructor; approval of department chair upon presentation of proposal. May be repeated for a total of 8 credits.

FRENCH LANGUAGE AND LITERATURE COURSES**Fren 100 Selected Emphasis in French—Beginning Level (2-4) (on demand)**

Focus on specific language skills (speaking, translation, writing, reading). May be repeated for credit with different objectives of the course. Not applicable toward the major or minor program in French.

Fren 101-102-103 Beginning French I-II-III (4 each) (FwWSS)

Basic skills in understanding, speaking, reading and writing French. Language laboratory required for oral practice. Not applicable toward the major or minor program in French.

Fren 105 Rapid Review of French Fundamentals (4) (on demand)

Intensive grammar review through oral and written exercises for students with previous exposure to French. Prerequisite: Fren 102 or equivalent. Not applicable toward the major or minor program in French.

Fren 107-108 Beginning French A-B (6-6) (on demand)

Accelerated acquisition of basic communicative skills in French. Minimum two hours per week language laboratory required. Preparatory for, though not applicable toward, the major or minor program in French.

Fren 200 Selected Emphasis in French—Intermediate Level (1-4) (on demand)

Focus on developing specific language skills. May be repeated for credit with different course objectives. Applicable toward the major or minor in French. Prerequisite: One year college French or equivalent.

Fren 201-202-203 Intermediate French I-II-III (4 each) (FWS)

Rapid and intensive review of grammar and further improvement of language skills in understanding, speaking, reading and writing. Prerequisite: One year college French or two years of high school study.

Fren 297 Independent Reading in French—Intermediate Level (1-4)

Selected project as agreed upon by student and instructor. Prerequisite: Completion of Fren 201-202-203 or consent of instructor; approval by department chair upon presentation of proposal. May be repeated for a total of 8 credits.

Fren 301-302-303 French Conversation and Composition I-II-III (4 each) (FWS)

Development of oral fluency and proficiency in French composition. Individual practice in language laboratory for pronunciation, vocabulary building and conversational skills. Prerequisite: Fren 203 or equivalent.

Fren 311-312-313 French Literature I-II-III (4 each) (Fws)

Readings in major works of the earlier periods of French literature. 311: Introduction to French literature; 312: Survey of 19th century literature; 313: Survey of 20th century literature. Prerequisite: Fren 203 or equivalent.

**Fren 397 Independent Study in French—
Advanced Level I (1-4)**

Selected project as agreed upon by student and instructor. Prerequisite: Completion of Fren 301-302-303. Consent of instructor; approval by department chair upon presentation of proposal. May be repeated for a total of 8 credits.

**Fren 401-402 Advanced French Composition
and Conversation I-II (4 each) (FW)**

Achievement of a high level of oral and written fluency. Emphasis on phonetics, syntax and stylistics. Prerequisite: Completion of Fren 303 or consent of instructor.

Fren 403 Applied French (4) (S)

Advanced French for vocational uses. Vocabulary building in designated technical areas. Independent project in consecutive interpreting, translating, film dubbing, tour guiding, etc. Prerequisite: Fren 402.

Fren 413 Survey of 18th Century Literature (4)

Readings in the major works of the Rococo and the Enlightenment. Prerequisite: Completion of French 311 or consent of instructor. May be repeated for credit.

**Fren 480(g) Special topics in French Literature
and/or Culture (2-4) (wS)**

In-depth study of a selected topic in French. May be repeated for credit. Counts toward the French major or minor. Prerequisite: Fren 311 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.

**Fren 497 Independent Study in French—
Advanced Level II (1-4)**

Selected project as agreed upon by student and instructor. Prerequisite: Completion of Fren 301-302-303. Consent of instructor; approval by department chair upon presentation of proposal.

**GERMAN LANGUAGE AND LITERATURE
COURSES**

**Ger 100 Selected Emphasis in German—
Beginning Level (1-4) (on demand)**

Language skills (speaking, reading, listening, writing). No prerequisite. May be repeated for credit with different course objectives. Not applicable toward the major or minor program in German.

**Ger 101-102-103 Beginning German I-II-III
(4 each) (FWS)**

Emphasis on the spoken language. Language laboratory: regular periods as required by the instructor. Not applicable toward the major or minor program in German.

**Ger 107-108 Intensive Beginning German (6-6)
(on demand)**

Accelerated acquisition of basic communicative skills in German. Minimum of two hours weekly in language laboratory practice. Preparatory for, though not applicable toward, the major or minor program in German.

**Ger 200 Selected Emphasis in German—
Intermediate Level (1-4) (on demand)**

The four language skills. May be repeated when course objectives are different. Prerequisite: At least two quarters of college-level German or the equivalent. Applicable toward the major or minor program in German.

**Ger 201-202-203 Intermediate German I-II-III (4
each) (FWS)**

Review and expansion of language skills. Readings selected from short literary works. Language laboratory as required by instructor. Prerequisite: One year of college German or two years of high school study.

**Ger 297 Independent Reading in German—
Intermediate Level (1-4)**

Selected project as agreed upon by student and instructor. Prerequisite: Completion of or concurrent enrollment in Ger 201-202-203; or consent of instructor, approval by department chair upon presentation of proposal. May be repeated up to a total of 8 credits. Applicable toward the major or minor programs in German.

**Ger 301-302-303 German Composition and
Conversation I-II-III (4 each) (FWS)**

Achievement of oral fluency and practical experience in writing. Prerequisite: Completion of second year German or consent of instructor.

**Ger 311-312-313 Masterpieces of German
Literature I-II-III (4 each) (Fws)**

Critical reading, discussion and literary analysis of representative works. Conducted in German. 311: 20th Century. 312: Realism and Naturalism. 313: The Age of Enlightenment and the Age of Idealism. Prerequisite: Ger 201-202-203 or consent of instructor.

**Ger 331-332 German Culture and Civilization
I-II (3 each)**

Lectures, readings and discussions on German art, architecture, education, history, music, philosophy, religion, science. Prerequisite: Completion of Ger 201-202-203. One course in this sequence is offered each year.

**Ger 397 Independent Reading in German—
Advanced Level I (1-4)**

Selected project as agreed upon by student and instructor; approval by department chair upon presentation of proposal. Prerequisite: Ger 301-302-303. May be repeated up to a total of 8 credits. Applicable toward the major or minor in German.

Ger 401-402-403 Advanced German Composition and Conversation (4 each) (FWS)

Advanced composition and achievement of a high level of fluency. Prerequisite: Completion of German 301-302-303 or consent of instructor.

Ger 480(g) Special Topics in German Literature and Culture (2-4)

In-depth study of a selected topic in German. May be repeated for credit. Prerequisite: Ger 311-312-313 or consent of instructor. Offered every other year.

Ger 497 Independent Reading in German—Advanced Level II (1-4)

Selected project as agreed upon by student and instructor; approval by department chair upon presentation of proposal. Prerequisite: 301-302-303. May be repeated up to a total of 8 credits. Applicable toward the major or minor in German.

LANGUAGE COURSES

Lang 110 Pronunciation Skills in Foreign Languages (1-2) (On demand)

Course intended to develop pronunciation skills in one or more foreign languages. Useful to students of vocal music, theatre, mass communications and other disciplines.

Lang 340 Methods and Materials in Teaching Foreign Languages (3) (W)

Analysis of objective and current techniques. Prerequisite: Completion of an intermediate course in any foreign language.

JAPANESE COURSES

Japanese 101-102-103 Beginning Japanese I-II-III (12) (FWS)

Introduction to Japanese language and culture. Emphasis placed on the spoken language and reading the Japanese alphabet.

Japanese 201-202-203 Intermediate Japanese I-II-III (FWS)

The development of academic learning skills of writing and reading, in addition to the sophistication of personal communication skills is expected. In principle, instruction is done in Japanese. English written articles as well as video programs are in use for the enrichment of cultural understanding. One year of Japanese (Japanese 101-102-103) or the equivalent is required.

Japanese 297 Independent Study in Japanese—Intermediate Level (1-4)

Selected project agreed upon by student and instructor. Prerequisite: Japanese 101-102-103 and/or consent of instructor. May be repeated up to a total of 8 credits.

NORWEGIAN

See Scandinavian Studies

SPANISH LANGUAGE AND LITERATURE COURSES

Span 100 Selected Emphasis in Spanish—Beginning Level (2-4) (on demand)

Introductory course that focuses on specific objectives, applications, interests or the acquisition of certain language skills, e.g., listening comprehension, reading, speaking, writing. Credits vary according to specific course offered. May be repeated. No prerequisites. Not applicable toward the major or minor program in Spanish.

Span 101-102-103 Beginning Spanish I-II-III (4 each) (FwWsS)

Introductory course. Emphasis on spoken language. Reading and inductive study of grammar. Language laboratory: As required by instructor. Not applicable toward the major or minor program in Spanish.

Span 107-108 Beginning Spanish A-B (6-6) (On demand)

Accelerated acquisition of basic communicative skills in Spanish. Minimum two hours weekly of language laboratory practice. Preparatory for, though not applicable, toward the major or minor in Spanish.

Span 105 Rapid Review of Spanish Fundamentals (4) (on demand)

Grammar review through abundant oral and written exercises. Not applicable toward the major or minor program in Spanish.

Span 200 Selected Emphasis in Spanish—Intermediate Level (2-4) (on demand)

Focus on specific objectives, applications, interests or developing certain language skills, e.g., listening comprehension, reading, speaking, writing, translation. Credits will vary according to the specific course offered. May be repeated for credit whenever course objectives are different. Prerequisite: At least two quarters of college-level Spanish or the equivalent. Applicable toward the major or minor program in Spanish.

Span 201-202-203 Intermediate Spanish I-II-III (4 each) (FWS)

Emphasis on spoken language. Rapid, intensive review of grammar; selected prose readings. Language laboratory as required by the instructor. Prerequisite: Span 101-102-103 or two years of high school Spanish.

**Span 297 Independent Reading in Spanish—
Intermediate Level (1-4)**

Selected project as agreed upon by student and instructor. Prerequisite: Completion of Spanish 201-202-203 or consent of instructor; approval by department chairperson upon presentation of proposal. May be repeated up to a total of 8 credits.

**Span 301-302-303 Conversation and
Composition I-II-III (4 each) (FWS)**

Practical experience in writing and speaking Spanish. Recommended as a prerequisite for advanced literature courses, and for freshmen with four years of high school Spanish.

**Span 311-312-313 Introduction to Hispanic
Literature I-II-III (4 each) (FWS)**

311: Analysis and discussion of major works of Hispanic literature from 1800 to 1936. 312: Analysis and discussion of major works of Hispanic literature from 1936 to the present. 313: Analysis and discussion of major works of Hispanic literature from their origins to 1800.

**Span 397 Independent Reading in Spanish—
Advanced Level I (1-4)**

Selected project as agreed by student and instructor. Prerequisite: Completion of Span 301-302-303 or consent of instructor; approval by department chair upon presentation of proposal. May be repeated up to a total of 8 credits.

**Span 401-402-403 Advanced Spanish
Composition and Conversation I-II-III (4 each)
(FWS)**

Advanced composition with emphasis on syntax and stylistics. Achievement of a high level of oral and written fluency. Prerequisite: Span 303 or consent of instructor.

**Span 480(g) Special Topics in Spanish Litera-
ture and Culture (2-4) (WS)**

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 497 Independent Reading in Spanish—
Advanced Level II (1-4)**

Selected project as agreed by student and instructor. Prerequisite: Completion of Span 301-302-303 or consent of the instructor; approval by department chair upon presentation of proposal. May be repeated up to a total of 8 credits.

SWEDISH COURSES

**Swedish 101-102-103 Beginning Swedish
(4 each) (on demand)**

An introductory study of the Swedish Language stressing oral proficiency supplemented by an overview of Modern Swedish civilization.

**Legal Assistant
Bridges 160, (218) 236-2587**

Coordinator: Larry Nordick

Faculty: Judy Streich

The Legal Assistant Program is a professional four-year major resulting in a Bachelor of Science degree. The program is guided by a Legal Assistant Committee composed of university and community members and is administratively located with the Accounting Department. The following curriculum will be in effect for the 1991-1992 academic year. Students enrolling in the program for the 1992-93 academic year should check with the coordinator regarding curriculum revisions.

Major Requirements

Core Requirements (66 credits)

Part A (all required)

LegA 125 Intro to Legal Assistant (2)
Acct 200 Intro to the Legal System (2)
Acct 305 Business Law I (4)
LegA 250 Legal Research & Communication I (4)
LegA 251 Legal Research & Communication II (4)
LegA 252 Legal Research & Communication III (4)
LegA 325 Interviewing (4)
LegA 350 Law Office Management (4)
LegA 375 Legal Ethics (4)
LegA 469 Internship (6-16)

Part B

Seven of ten following courses required:

LegA 310 Civil Procedure (4)
LegA 320 Domestic Relations (4)
LegA 330 Bankruptcy (4)
LegA 335 Personal Injury (4)
LegA 340 Evidence (4)
LegA 420 Debtor-Creditor (4)
LegA 450 Abstracts & Titles (4)
Acct 229 Prin I: Financial (4)
Acct 230 Prin II: Financial (4)
Acct 306 Business Law II (4)

Major Tracks—each Legal Assistant Major must complete at least 12 credits in one of the five alternate major tracks: Estate and Tax, Civil Litigation, Criminal Litigation, Public Interest, and Real Estate.

Major Tracks (At least 12 credits)

Estate and Tax

LegA 301 Methods & Materials in Estate & Tax (4) - Required

Acct 441 Individual Income Taxes (4) - Required

LegA 446 Estate Gift and Trust Taxation (4) - Required

Civil Litigation - 12 credits

LegA 302 Methods and Materials in Litigation (4) - Required

LegA 340 Evidence* (4) - Required

LegA 420 Debtor-Creditor Law* (4)

LegA 443 Public Benefits III (4)

LegA 335 Personal Injury* (4)

Criminal Litigation - 12 credits

LegA 302 Methods and Materials in Litigation (4) - Required

LegA 340 Evidence* (4) - Required

CJ 430 Minnesota Criminal Law and Procedure (4) - Required

Public Interest

LegA 303 Methods & Materials in Public Law (4) - Required

LegA 430 Administrative Advocacy (4)

LegA 441 Public Benefits I (4)

LegA 442 Public Benefits II (4)

LegA 443 Public Benefits III (4)

Real Estate

LegA 304 Methods & Materials in Real Estate Law (4) (Required)

LegA 450 Abstracts and Titles* (4) - Required

LegA 460 Housing Law (4) - Required

*These courses would not count toward Part B of the core requirements if counted as part of the track requirement.

Related Requirement

BEd 260 Microcomputer Business Applications

LEGAL ASSISTANT COURSES

LegA 125 Introduction to Legal Assistant (2) (FS)

Provides an overview of the legal assistant profession to assist students in their career decision-making process.

LegA 250 Legal Research & Communication I (4) (F)

A general introduction to recorded sources of the law and where and how they may be found. Specific sources will be discussed and facilitated through practical exercises. Fundamentals of grammar, style and letter writing will be discussed and practiced. Prerequisite: Completion of or concurrent enrollment in Acct 200 Intro to the Legal System.

LegA 251 Legal Research & Communication II (4) (W)

Continuation of Legal Research and Communication sequence. Students will begin to identify and analyze legal issues through exercises and case studies. Students will draft legal instruments, pleadings and be introduced to the writing requirements for legal memoranda. Prerequisite: LegA 250.

LegA 252 Legal Research & Communication III (4) (S)

Continuation of Legal Research and Communication sequence. Students will further develop skills in legal issue identification, analysis and research through progressively more complex exercises including the preparation of legal memoranda and briefs. Students will also receive an introduction to automated legal research sources and word processing techniques for production of legal documents. Prerequisite: LegA 250 and 251.

LegA 301 Methods & Materials in Estate and Tax (4) (S)

A study of the procedures, documents and other techniques used in the planning for transfer of property after death, administration of estates and the preparation of federal and state gift, estate and income tax returns. Prerequisite: LegA 252 or consent of program director.

LegA 302 Methods & Materials in Litigation (4) (S)

A study of the procedures, documents and other techniques used in a legal setting emphasizing trial practice. Topics included will be case intake, discovery, negotiations, trial preparation, trial practice and post judgment relief. Prerequisite: LegA 252 and LegA 310, or consent of program director.

LegA 303 Methods and Materials in Public Law (4) (W)

A study of the procedures, documents and other techniques used in a legal aid or poverty law setting, including client intake, eligibility determinations, and routine case handling. Prerequisite: LegA 252 and LegA 441, or consent of program director.

LegA 304 Methods & Materials in Real Estate Law (4) (W)

A study of the procedures, documents and other techniques used in a legal setting emphasizing real estate practice, including title, sale or transfer, lease, zoning, and mineral interests in real property. Prerequisite: LegA 252 and LegA 450, or consent of program director.

LegA 310 Civil Procedure (4) (W)

The substantive and procedural law of civil litigation in both state and federal court systems. Prerequisite: LegA 252 or consent of program director.

LegA 315 Medical Terms & Records (4)

An introduction to medical vocabulary, types and systems of human medical records, their use and importance in legal proceedings, and methods of acquiring such records for litigation. Prerequisite: LegA 252 or consent of program director.

LegA 320 Domestic Relations (4) (S)

Law of Domestic Relations including marriage, separation, divorce, annulment, adoption and custody. Prerequisite: LegA 252 or consent of program director.

LegA 325 Interviewing (4) (FS)

Development of the skills necessary to elicit comprehensive factual information about legal issues and to assist the client in understanding the process and procedures of the legal system. Prerequisite: LegA 252 or consent of program director.

LegA 330 Bankruptcy (4) (S)

A study of the substantive and procedural law of bankruptcy, including liquidation, business reorganizations and adjustment of debts of individuals. Prerequisite: LegA 252 or consent of program director.

LegA 335 Personal Injury Law (4) (F)

A study of the procedural and substantive law of personal injury, including negligence, products liability, strict liability, and insurance. Prerequisite: LegA 252 or consent of program director.

LegA 340 Evidence (4) (W)

A study of the substantive and procedural law of evidence in civil and criminal litigation. Prerequisite: LegA 252 or consent of program director.

LegA 350 Law Office Management (4) (W)

An introduction to the unique characteristics of law office organization and management including time records and billing systems, pleading organization, docket control and file maintenance in complex legal proceedings, and an overview of computerized record, billing and research systems. Prerequisite: LegA 252 or consent of program director.

LegA 375 Legal Ethics (4) (F)

A study of the laws governing the professional ethics of attorneys with emphasis on the Rules of Professional Conduct and their implications for legal assistants. Prerequisite: LegA 252 or consent of program director.

LegA 420 Debtor-Creditor Law (4) (W)

A study of the substantive and procedural law relating to the extension of credit, pre-judgment and post-judgment collection of debts. Prerequisite: LegA 252 or consent of program director.

LegA 430 Administrative Advocacy (4) (S)

Techniques and procedural rules involved in the non-lawyer representation of clients before administrative hearing bodies. Prerequisite: LegA 252 and LegA 443, or consent of program director.

LegA 441 Public Benefits I (4) (F)

An overview of public benefits programs providing economic maintenance and financing of health care. A study of the substantive and procedural law of governmental entitlement programs, including food stamps, Aid to Families with Dependent Children, general assistance, energy assistance and Hill-Burton. Prerequisite: LegA 252 or consent of program director.

LegA 442 Public Benefits II (4) (W)

A study of the substantive and procedural law of government benefit programs, including Medical Assistance, Medicare, Supplemental Security Income and Veterans' Benefits. Prerequisite: LegA 252 or consent of program director.

LegA 443 Public Benefits III (4) (S)

A study of the substantive and procedural law of governmental benefits programs, including workers compensation, unemployment compensation and Social Security Retirement and Disability insurance. Prerequisite: LegA 252 or consent of program director.

LegA 446 Estate, Gift, and Trust Taxation (4) (W)

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of estate planning. Prerequisite: LegA 252 or consent of the program director. (See Acct 446)

LegA 450 Abstracts and Titles (4) (F)

The law dealing with official descriptions and ownership (title) of real property with emphasis on the methods of description and systems for recording and abstracting the title. Prerequisite: LegA 252 or consent of program director.

LegA 455 Law of Mineral Interests (4)

An overview of the major concepts in severability of mineral interests in real property including oil, gas, coal and water rights. Prerequisite: LegA 252 or consent of the program director.

LegA 460 Housing Law (4) (F)

A study of the major concepts in housing law focusing primarily on the landlord-tenant relationship, but also including government financing programs, anti-discrimination regulations and homestead protections. Prerequisite: LegA 252 or consent of the program director.

LegA 469 Internship (6-16) (FWS)

Internship experience under supervision of an attorney as approved by program internship coordinator. Student must return to school for at least one quarter after the completion of the internship. Prerequisite: LegA 252, LegA 325 and one methods and materials course.

LegA 498 Problems in Law (1-4) (on demand)

Individual research or study under supervision of program director or other approved faculty.

Life Science (Teaching)

Information on the major in Life Science (Teaching) may be found under Biology.

Management

See Business Administration for Curricula.

MANAGEMENT COURSES**Mgmt 315 Government and Business (4)**

Same as Econ 315.

Mgmt 360 Principles of Management (4) (Fws)

Analyzes functions of management and the forces that shape and define the manager's role. Prerequisite: Junior standing.

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. Can be taken two quarters consecutively for a total of 4 credits. Senior or graduate standing and permission of the instructor required. Offered only on a pass/fail basis.

Mgmt 416(g) Labor Economics (4)

Same as Econ 416.

Mgmt 420 Organizational Theory (Fs)

Behavioral science theory applied to an understanding of the design, structure, performance and environment of business organizations. Prerequisite: Mgmt 360, Psy 119 or Soc 205.

Mgmt 421(g) Decision Analysis (4) (Fs)

Structuring and analyzing of decisions under conditions of risk and uncertainty. Prerequisite: Mgmt 360, Math 275.

Mgmt 424 Management Science I (4) (Fws)

A study of inventory models, linear programming techniques and network models as they relate to business decisions. Other topics may be covered if time permits. Prerequisite: Mgmt 360, Math 275.

Mgmt 425 Management Science II (4) (S)

A study of probability based quantitative decision techniques including queuing theory, replacement decisions, simulation, game theory and Markov chains. Prerequisite: Mgmt 424.

Mgmt 430(g) Managerial Economics (4)

Same as Econ 430.

Mgmt 440(g) Personnel Management (4) (Fw)

Management of people at work with emphasis on recruiting, selecting, training and evaluating personnel. Prerequisite: 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. Prerequisite: Mgmt 360 and Math 275.

Mgmt 451 Organizational Behavior (Ws)

Studies the interaction of individuals and groups in business organizations. Prerequisite: Mgmt 360, Psy 119 or Soc 205.

Mgmt 452(g) Organizational Development (4) (W)

Techniques used to assist in solving problems and dealing more rapidly with change. Prerequisite: Mgmt 360, Mgmt 440 or 451.

Mgmt 456(g) Management Information Systems (4) (Fws)

Study of design and use of information systems and communication processes, including recording, transmitting, and revising information as an aid in managerial decision-making. Prerequisite: Mgmt 360, CIS 145 or ComS 201.

Mgmt 458(g) International Management (4) (Fws)

An examination of organizational management in the international environment which will focus on private and public management in the exchange of goods and services in a cross-cultural context. Prerequisite: Mgmt 360.

Mgmt 461(g) Management Seminar (4) (S)
Selected management topics of contemporary interest. May be repeated with different topics. Prerequisite: Mgmt 360.

Mgmt 469 Student Internship (3-12) (Fws)
Prerequisite: Junior standing.

Mgmt 480 Senior Seminar in Management (4) (Ws)
Examination of ethical and social responsibility issues related to the field of management. Students will prepare and present three moderate length papers. Prerequisite: Mgmt 360, senior standing and consent of instructor.

Mgmt 490 Business Policy (4) (Fws)
Integrates material learned in the functional business areas through the solving of business policy cases and the utilization of a sophisticated computer business game. Prerequisite: Senior standing and core courses.

Mgmt 498 Problems in Management (1-4) (Fws)
Individual inquiry into an aspect of Business Administration not covered in the regular curriculum. Prerequisite: Consent of instructor.

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

See Business Administration for Curricula.

MARKETING COURSES

Mktg 310 Principles of Marketing (4) (Fws)
Principles of planning the product, price, promotion and distribution strategies of an organization within a competitive environment to meet the needs of the consumer. Prerequisite: Econ 204 and junior standing.

Mktg 315(g) Industrial Marketing (4) (W)
Methods of marketing goods and services to manufacturers, wholesalers, retailers, institutions and governments. Prerequisite: Mktg 310.

Mktg 320 Introduction to Logistics (4) (Fs)
Distribution processes with emphasis placed on marketing channel relationships, the physical movement of goods between channel members and within firms, and the wholesale distribution process. Prerequisite: Mktg 310.

Mktg 330 Personal Selling (4) (Ws)
Investigation of the theory and practice of selling through an examination of the sociological and psychological influences upon the selling and buying process. Prerequisite: Mktg 310, Psy 119 or Soc 205.

Mktg 335 Retail Management (4) (Fw)
Principles and concepts concerned with the management and operation of a viable retail strategy in the rapidly changing marketing environment. Prerequisite: Mktg 310.

Mktg 406(g) Small Business Management Consulting (2) (Fws)
Practicum in providing marketing assistance to small business. Can be taken two quarters consecutively for a total of 4 credits. Senior or graduate standing and permission of 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, Mktg 320, Math 275.

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 422 Marketing Research (4) (Fws)
Methods of obtaining and analyzing internal and external marketing information. Research design and analysis are emphasized. Prerequisite: Mktg 310, Math 275.

Mktg 423 Marketing Communications (4) (Ws)
Applications of interpersonal and mass communications theories to the management of marketing promotions. Prerequisite: Mktg 310, Psy 119 or Soc 205.

Mktg 441 Business and Society (4) (Fws)
Social responsibility and business ethics are examined in the context of operating within the American and international societal, political, and economic systems. Prerequisite: Mktg 310, senior standing.

Mktg 442(g) Marketing Seminar (4) (Fws)
Selected marketing topics of contemporary interest. Recent topics include new product introduction, non-profit marketing, and direct marketing. Prerequisite: Mktg 310. May be repeated with different topics.

Mktg 444(g) Transnational Marketing (4) (Fs)
Comprehensive study of the cultural, political, and economic factors affecting international marketing strategies. Prerequisite: Mktg 310, senior standing.

Mktg 455 Marketing Management (4) (Fws)
Marketing decisions made under conditions of uncertainty. Utilize accepted marketing and interdisciplinary methods. Prerequisite: Mktg 310 and senior standing.

Mktg 469 Student Internship (3-12) (Fws)
Prerequisite: Junior 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.

Mass Communications Department MacLean 260, (218) 236-2983

Chair: Martin Grindeland

Faculty: Marvin Bossart, Wayne Gudmundson, Shelton Gunaratne, William B. Hall Jr., C.T. Hanson, Dean Hustuft, Melva Moline, Mark Strand

Summary of Requirements for a Bachelor of Science Degree in Mass Communications

The major in mass communications is designed to balance the breadth of liberal education with the depth of a professional program. To accomplish these twin goals the department requires majors to complete 96 credits of distributional requirements as well as a minimum of 49 credits and a maximum of 60 credits in mass communications course work as part of the 192 credits required for graduation. Credits earned beyond 192 may be taken in any discipline.

Distributional requirement (Liberal Arts)	96
Mass Communications Courses:	
Common Core	26
Professional Concentrations	23-27
Electives in any Discipline	7-11

Electives in Non-Communications Courses

NOTE: Course work in communications shall not be used to fulfill this requirement with the exception of those courses in speech communication which are included in the university's published list of liberal arts courses. In

addition, practicums and internships of a communications nature shall not be used to fulfill this requirement, regardless of where such courses originate. Students may double major with another communications program or complete two concentrations within the department provided that all of the above requirements are met.

Total Credits Required for Graduation 192

The Distributional Requirement

The distributional requirement, which will also satisfy the university's minimum requirement of 64 credits of liberal arts, is as follows:

DR1—English 101, 102 & 103	12
DR2—Natural Sciences	10
DR3—Economics 202, 204, 206	12
DR4—History	10
DR5—Political Science (10 credits including Pol 120 ..	10
DR6—Humanities (10 credits from the division)	10
DR7—Mathematics 121, 274 & 275 or 12 credits in a Foreign Language	12
DR8—Additional Study in the Liberal Arts	20
Minimum Total Credits in the Liberal Arts	96

NOTE: All of the courses in the above distributional requirement must be selected from the university's published list of approved liberal arts courses. In addition, at least one course in the above distribution must be taken from multicultural studies and another must be designated as concentrating on a non-western culture. Students who have already earned a bachelor's degree and are working on a second degree are not required to complete the above distributional requirement provided they have completed 96 credits of liberal arts.

The Common Core

All students who major in mass communications are required to complete a common core of study including course work emphasizing mass communications theory, history, effects, ethics, issues and law as well as the development of skills in written and visual communications. The following courses comprise the required core:

MC 100 Introduction to Mass Communications (3)
MC 175 Desktop Publishing (3)
MC 205 Media Writing (3)
MC 230 Communications Photography I (3)
MC 240 History of Mass Communications (3)
MC 285 Radio-TV Operations (3)
MC 435 Mass Media: Ethics and Issues (4)
MC 440(g) Communications Law (4)

NOTE: All courses in the professional concentrations as well as MC 435 Mass Media Ethics and Issues (4) and MC 440 Communications Law (4) must be completed at MSU. Transfer and Tri-College University courses which are applied to the major must be approved in writing at the time of admission or prior to taking the course by the chairperson of the department.

The Professional Concentration

In addition to the common core, students who major in mass communications concentrate typically in one of five areas: advertising, broadcast journalism, photojournalism, print journalism and public relations. Those who wish to conduct research or attend graduate school may complete a general program in mass communications. Those who wish to concentrate in writing may complete a dual major with English and Mass Communications.

Advertising Concentration

The advertising concentration prepares students who wish to work designing campaigns, buying and selling media, writing copy and producing advertisements for print and broadcast.

The Common Core (26)

(and)

MC 260 Advertising Principles (4)

MC 270 Public Relations Principles (4)

MC 315 Layout and Typography (3)

MC 318 Advertising Copywriting (3)

MC 384 Television Production (4)

MC 416 Advertising Media Strategy (3)

MC 419 Advertising Campaigns (4)

Recommended:

Mktg 310 Principles of Marketing (4)

Broadcast Journalism Concentration

The broadcast journalism concentration prepares students for work in the news departments at radio and television stations. The study of writing, reporting, photography, editing, production and producing is emphasized.

The Common Core (26)

(and)

MC 210 Broadcast Journalism (4)

MC 290 Radio/Television Performance

(or)

MC 384 Television Production (4)

MC 305 Reporting (4)

MC 385 TV News Writing (2)

MC 386 TV News Reporting

(and/or)

MC 387 TV News Photography (4)

MC 388 TV News Videotape Editing

(and/or)

MC 389 TV News Producing (2)

MC 400 Reporting of Public Affairs

(or)

MC 465 Investigative Processes (4)

Photojournalism Concentration

The photojournalism concentration prepares students for work as photographers in the news and public affairs departments at newspapers and television stations. The study of reporting, photography and visual communications is emphasized.

The Common Core (26)

(and)

MC 210 Broadcast Journalism (4)

MC 305 Reporting (4)

MC 315 Layout and Typography (3)

MC 330 Communications Photography II (3)

MC 352 TV News Photography (3)

MC 356 TV News Videotape Editing (1)

MC 430 Communications Photography III (6)

Recommended:

MC 384 Television Production (Same as Spch 384) (4)

Print Journalism Concentration

The print journalism concentration prepares students for work at newspapers or other publications. The study of writing, reporting, copy editing, reporting of public affairs and investigative processes is emphasized.

The Common Core (26)

(and)

MC 305 Reporting (4)

MC 310 Copy Editing (4)

MC 330 Communications Photography II (3)

MC 400 Reporting of Public Affairs (4)

MC 425 Journalism Seminar

(or)

MC 460 International Communication (4)

MC 465(g) Investigative Processes (4)

Public Relations Concentration

The public relations concentration prepares students to work in both internal and external communications for organizations and individuals. Theories, skills and strategies of the diverse public relations profession are emphasized.

The Common Core (26)

(and)

MC 260 Advertising Principles (4)

MC 270 Public Relations Principles (4)

MC 305 Reporting (4)

MC 310 Copy Editing (4)

MC 315 Layout & Typography

(or)

MC 330 Communications Photography II (3)

MC 345 Multi-Media Communication

(or)

MC 384 Television Production (4)

MC 410 Public Relations Processes (4)

Recommended:

MC 380 Case Studies in Public Relations (4)

The General Program

The general program in mass communications is designed for students preparing to attend graduate school or to conduct research for media-related agencies and institutions.

The Common Core (26)

(and)

MC 210 Broadcast Journalism

(or)

MC 305 Reporting (4)

MC 260 Advertising Principles (4)

MC 270 Public Relations Principles (4)

MC 328 Media and Politics

(or)

MC 460 International Communication (4)

Additional credits in mass communications agreed upon by the student and her/his advisor (8)

Requirements in Other Areas:

Engl 287 Technical Report Writing (4)

Math 274 Introduction to Statistics I (4)

Math 275 Introduction to Statistics II (4)

Soc 350 Methods of Social Research I (4)

Soc 351 Methods of Social Research II (4)

Dual Major in English and Mass Communications B.A. Degree (100 credits)

Requirements in English (56 credits)

1. Core requirements (28) Engl 211-212-213 Major British Writers I-II-III (12)

Engl 371-372-373 American Literature Survey I-II-III (12)

Engl 314 Shakespeare (4)

2. Writing requirements (8)

Engl 285 Writing for Film and Television (4)

Engl 286 Practical Writing (4)

Engl 287 Technical Report Writing (4)

Engl 288 Introduction to Creative Writing (4)

Engl 354 Non-Fiction Writing (3)

Engl 355 Advanced Technical Writing (4)

Engl 388 Creative Writing (3)

3. Electives in English (20)

NOTE: At least 12 credits must be taken at the 300 or 400 levels, including one course in American literature and one course in British literature. Electives should be chosen in close consultation with one's English Department advisor.

Requirements in Mass Communications (44 credits)

1. Core requirements (24)

MC 100 Introduction to Mass Communications (3)

MC 175 Desktop Publishing (3)

MC 205 Media Writing (3)

MC 230 Communications Photography I (3)

MC 305 Reporting (4)

MC 435 Mass Media: Ethics and Issues (4)

MC 440 Communications Law (4)

2. Electives in mass communications (20)

NOTE: Electives in mass communications should be agreed upon by the student and advisor. The dual major does not require completion of the distributional requirements of the mass communications major, however, it does require completion of the university's liberal arts requirement (64 credits), plus 36 credits of English literature.

Minor in Mass Communications

The minor in mass communications is designed to introduce students to the study of mass communications without a concentrated sequence of course work in any of the professional areas.

Required:

MC 100 Introduction to Mass Communications (3)

MC 175 Desktop Publishing (3)

MC 205 Media Writing (3)

MC 230 Communications Photography I (3)

And two of the following:

MC 240 History of Mass Communications (3)

MC 435 Mass Media: Ethics and Issues (4)

MC 440 Communications Law (4)

Additional credits in mass communications (8)

MASS COMMUNICATIONS COURSES

MC 100 Introduction to Mass Communications (3) (FWS)

The study of the power and importance of mass media in national and international affairs with emphasis on the nature and functions of newspapers, television, radio, advertising and public relations.

MC 150 Visual Communications (3) (F)

A survey of the visual components that make up mass communications, including structural elements, psychological implications and effects and general visual literacy.

MC 175 Desktop Publishing (3) (FWS)

An introduction to and application of computers and computer programs for information access, word processing, typesetting, graphics and layout appropriate to mass communications.

MC 205 Media Writing (3) (FWS)

Evaluation of informative and persuasive media writing, with emphasis on the organization, structure and style demanded by various media. Writing exercises designed to help the student create clear, precise and effective mass media messages. Prerequisite: Grammar test and MC 175.

MC 210 Broadcast Journalism (4) (FWS)

The study of radio and television news operations with emphasis upon writing, editing and producing news broadcasts. Prerequisite: MC 205.

MC 212 University Newspaper Publication (2)
(FWS)

Practicum for students working on the MSU Advocate staff. Repeatable to 6 credits. Prerequisite: Consent of the Advocate publisher.

MC 230 Communications Photography I (3)
(FWS)

Black and white processing, visual perception and communication. Students without acceptable cameras may rent cameras at \$10 per quarter.

MC 240 History of Mass Communications (3)
(FS)

The development of American print and electronic mass media from the colonial era to its present global impact.

MC 260 Advertising Principles (4) (FWS)

Introduction to the principles of advertising in the print, broadcast and other media.

MC 270 Public Relations Principles (4) (FWS)

Introduction to the principles and theories of public relations, its problems, impact and potential.

MC 285 Radio/Television Operations (3) (Fws)

Theory of and practical experience with basic radio and television equipment in studio and remote production. Projects include knowledge, application and aesthetics concerning equipment functions, selection and operation. (Same as Spch 285)

MC 290 Radio/Television Performance (4) (Fw)

Theory and practice in the professional areas of radio and television. Exercises include news anchoring/announcing, interviewing, hosting and delivering public service announcements. (Same as Spch 290)

MC 305 Reporting (4) (FWS)

Discussion and assignments in gathering information and writing all types of local news stories to meet deadlines. Preparing students to conduct journalistic interviews. Prerequisite: MC 175 and MC 205.

MC 310 Copy Editing (4) (WS)

Evaluating and preparing news copy for publication. Extensive practice in editing, rewriting, headline and caption writing. Working with desktop publishing and applications to lay out copy and graphics. Prerequisite: MC 175, MC 205 and MC 305.

MC 315 Layout and Typography (3) (FWS)

An introduction to terms, concepts, skills and processes involved in design and production of visual material for the print media. Prerequisite: MC 175.

MC 318 Advertising Copywriting (3) (FS)

Theory and practice of advertising copywriting for both print and broadcast media. Prerequisite: MC 175, MC 205 and MC 260.

MC 328 The Media and Politics (4) (Fs)

Concepts of political communication, socialization and public opinion. The media's role in politics, including relations between the media and government, with special focus on the media's impact on presidential elections. Prerequisite: Pol 120. (Same as Pol 328)

MC 330 Communications Photography II (3)
(FWS)

Photojournalism. Spot news and feature photographs, with cutlines, for the printed page. Photographing and writing picture stories for the print media. Prerequisites: MC 205 and MC 230.

MC 345 Multi-Media Communications (4) (FS)

Introduction to the visual communications process, production methods and effective presentation techniques in business. Culminates in the production of an audio/graphic presentation. Prerequisites: MC 230.

MC 380 Case Studies in Public Relations (1-4)
(W)

An advanced course in public relations designed to build on the basic theories studied in Public Relations Principles. It will provide opportunities to apply theory to practical experience through discussion of actual case studies. Students will work as teams to develop public relations plans to solve public relations problems. Repeatable to 8 credits. Prerequisite: MC 270 and consent of instructor.

MC 384 Television Production (4) (Fws)

Theory and practice in the production aspects of television. Content includes: message/audience analysis, script preparation, studio and crew management in producing a variety of television formats. Major projects include producing PSA for airing. Prerequisite: MC 285. (Same as Spch 384)

MC 385-389 Television News Workshop (1-4 each) (FWS)

A practicum whereby students participate in the development of a weekly television program or project as part of a series of newscasts, public affairs programs or informative programs. Areas as follows: 385 TV News Writing, 386 TV News Reporting, 387 TV News Photography, 388 TV News Videotape Editing, 389 TV News Producing. May be repeated for credit. No credit will be awarded for studio production and performance experiences in this course. Prerequisite: Consent of instructor.

MC 400 Reporting of Public Affairs (4) (FS)

Instruction and practice in reporting municipal, school, county, state and federal administrative and legislative agencies. Learning the use of scientific methods for gathering information. Prerequisite: MC 175, MC 205 and MC 305.

MC 405 Broadcast Documentary (4)

History and analysis of non-fiction documentation via radio, film and video. Each student will write a treatment and shooting script for a documentary and participate in the development of a television documentary program. Prerequisite: Consent of instructor.

MC 410 Public Relation Processes (4) (FS)

Execution of theories and principles of public relations as related to the creation of public and general information materials. Prerequisite: MC 175, MC 205 and MC 270.

MC 416 Advertising Media Strategy(3) (FW)

Principles and practice of evaluating and selecting media for advertising. Emphasis upon developing strategies for using media in advertising as well as media buying and selling at both the local and national level. Prerequisite: MC 260.

MC 419 Advertising Campaigns (4) (FWS)

A seminar for advanced students in advertising with emphasis on campaign execution. Repeatable to 8 credits. No more than 4 credits can be earned in one academic year. Prerequisite: MC 260, MC 315, MC 318 and MC 416 or consent of instructor.

MC 425 Journalism Seminar (4) (S)

Advanced assignments in researching and writing news, features or editorial material. Topics chosen quarterly. Repeatable to 12 credits. Prerequisite: Consent of instructor.

MC 430 Communications Photography III (3) (FWS)

Individual studies agreed upon by the instructor and student. Repeatable to 9 credits. Prerequisite: MC 330 and consent of instructor.

MC 435 Mass Media: Ethics and Issues (4) (FW)

Study of ethical considerations in advertising, journalism and public relations as well as major contemporary issues in the mass media. Emphasis will be placed upon research findings regarding mass media effects and the resultant alternatives for policymakers, practitioners and consumers.

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 various regions of the world and of the current issues in international communication, including the debate on the new world information and communication order.

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 175, MC 205 and MC 305.

MC 469 Internship (3-5) (FWS)

Practical work for an approved media agency.

MC 480 Problems in Mass Communications (1-6) (FWS)

Individual problems in areas of specific interest to the student.

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)

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**MacLean 362, (218) 236-2274**

Chair: Milton W. Legg

Faculty: Athula I. Abeyratne, Sayel A. Ali, Carl T.

Carlson, Wayne Chen, Sidney J. Drouilhet II, Marvel L. Froemming, James P. Hatzenbuehler, Ronald M. Jeppson, Julie M. Legler, Don A. Mattson, Douglas K. McDaniel, Christine E. McLaren, Bette G. Midgarden, Timothy S. Peil, Barbara G. Rath, Harley D. Reed, Dennis L. Rhoads, Derald D. Rothmann, Bonita R. Schmidt, C. Jane Schobel, Walter S. Sizer, Jon C. Stenerson, James T. Wallen, Shelda A. Warren, Ariyaratna M. Wijetunga, Vernon E. Wolff, Fike A. Zahroon, Peiyi Zhao

MATHEMATICS CURRICULA**Major in Mathematics B.A. Degree (56 credits)**

Math 231-232-233-234 Calculus I-II-III-IV (16)

Math 327 Introduction to Linear Algebra (4)

Math 391 Foundations of Mathematics (4)
Math 392 Intermediate Analysis I (4)
Math 424 Abstract Algebra I (4)

Math electives* - at least 24 credits at the 300 level and above to include at least two of the following combinations:

Math 392-393
Math 424 and either 425 or 427
Math 450-451
Math 474-475
Math 420-470

Related Field Requirement:
ComS 140 (4) or ComS 201 (4).

Major in Mathematics B.S. Degree (Teaching) (60 credits)

Math 231-232-233-234 Calculus I-II-III-IV (16)
Math 327 Introduction to Linear Algebra (4)
Math 375 Intermediate Probability and Statistics (4)
Math 391 Foundations of Mathematics (4)
Math 392 Intermediate Analysis I (4)
Math 415 Foundations of Geometry (4)
Math 424 Abstract Algebra I (4)
Math 440 Mathematics in the Secondary School (4)
Math electives* - 300 level and above (at least 16 credits)

Related Field Requirement: ComS 130 (3)
or ComS 140 (4)
or ComS 201 (4)
(The professional education sequence must also be completed. See Teacher Education Requirements in Education Department.)

Minor in Mathematics B.A. Degree (32 credits)

Math 231-232-233-234 Calculus I-II-III-IV (16)
Math electives* - 300 level and above (at least 16 credits)

Minor in Mathematics B.S. Degree (Teaching) (36 credits)

Math 231-232-233-234 Calculus I-II-III-IV (16)
Math 440 Mathematics in the Secondary School (4 credits)
Three of the following four courses:
Math 327 Introduction to Linear Algebra (4)
Math 375 Intermediate Probability and Statistics I (4)
Math 391 Foundations of Mathematics (4)
Math 415 Foundations of Geometry (4)
Math electives* - 300 level and above (at least 4)

Minor in Mathematics (For Elementary Education Majors) (35 credits)

Math 100 Intro to Mathematics (4)
Math 203 Foundations of Number systems (4)
Math 231-232-233 Calculus I-II-III (12)

Three of the following four courses:

Math 327 Introduction to Linear Algebra (4)
Math 375 Intermediate Probability and Statistics I (4)
Math 391 Foundations of Mathematics (4)
Math 415 Foundations of Geometry (4)
Electives in Mathematics (121 level or above)
or Computer Science (3 credits).*

Area of Concentration (For Elementary Education Majors) (20 credits)

Math 100 Intro to Mathematics (4)
Math 203 Foundations of Number Systems (4)
Math 231 Calculus I (4)
Electives in Mathematics - 121 level and above (8 credits).*

* The electives may not include: Math 340, 341, 344, 440, or 444.

MATHEMATICS COURSES

Math 090 Elementary Algebra (No Credit) (FWS)

For students with weak backgrounds in algebra. Not for students having more than one year of algebra in secondary school. Signed numbers, radicals, exponents, products and factoring, solution of linear and quadratic equations. Prerequisite: Consent of instructor. Credit not applicable to degree.

Math 100 Introduction to Mathematics (4) (FWS)

Axiomatic systems, logic, sets and probability. Not intended to prepare students for any subsequent course, except Math 203.**

Math 121 Intermediate Algebra (4) (FWS)

Exponents, algebraic fractions, polynomials, linear and quadratic equations, systems of equations. Prerequisite: At least one year of algebra in secondary school.**

Math 131 College Algebra (4) (FWS)

Functions, exponents, radicals, inequalities, induction, progressions, binomial series. Prerequisite: Math 121 or equivalent.**

Math 133 Trigonometry (4) (FWS)

Trigonometric functions, identities, applications. Prerequisites: Two years of secondary school algebra or Math 121.**

(**) Students who have completed a mathematics course numbered 200 or above must obtain the consent of the department chairperson before registering for a mathematics course at the 100-level.

Math 203 Foundations of Number Systems (4) (FWS)

Systems of numeration, rational number systems, basic geometric concepts. Open to elementary education and special education majors only. Prerequisite: Math 100.

Math 231-232-233-234 Calculus I-II-III-IV (4 each) (FWS)

Calculus I and II: Calculus of one variable. Calculus III: Techniques of integration and infinite series. Calculus IV: Calculus of several variables, multiple integration and partial differentiation. Sequential. Prerequisites: Math 131 and 133 or equivalent high school preparation.

Math 265 Discrete Structures (4) (S)

Sets, relations, graphs, functions, boolean algebras, lattices, trees, finite-state machines and their applications to computer science. Prerequisites: ComS 201 and Math 231 or Math 273.

Math 273 Linear Algebra/Applied Calculus I (4) (FWS)

Functions, matrices, linear programming and the simplex method, limits, the derivative, maxima and minima and applied problems. Prerequisite: Math 121 or two years of algebra in secondary school. Not open to mathematics majors.

Math 274 Introduction to Statistics I (4) (FWS)

Descriptive statistics, probability distributions, sampling, estimation of mean and proportion, tests of hypotheses, confidence intervals. Prerequisite: Math 121 or two years of algebra in secondary school. Students who have completed Math 233 are encouraged to take Math 375 rather than Math 274. Not open to majors in mathematics.

Math 275 Introduction to Statistics II (4) (FWS)

Hypothesis testing, linear regression, multiple regression, correlation, analysis of variance, time series, non-parametric tests. Prerequisite: Math 274. Not open to mathematics majors.

Math 283 Applied Calculus II (4) (on demand)

Differential calculus of one and several variables, introduction to integral calculus, applications to business problems. Prerequisite: Math 273 or 231. Not suitable for science majors and not open to students who have completed Math 232.

Math 327 Introduction to Linear Algebra (4) (FWS)

Systems of linear equations, Gauss-Jordan elimination, linear programming, matrices, determinants, vector spaces. Prerequisite: Math 232.

Math 331 Differential Equations (4) (WS)

Standard methods of solution for elementary ordinary differential equations. Prerequisite: Math 234.

Math 340 Mathematics in the Elementary School (4) (FWS)

Materials and methods of teaching elementary school mathematics. Open only to elementary education majors. Usually taught in PFY. Prerequisite: Math 203.

Math 341(g) Special Methods in Mathematics in the Elementary School (3) (by arrangement)

Adapted to the needs and experience of those enrolled. Prerequisite: Elementary school teaching experience.

Math 344 Mathematics for Special Education (4) (WS)

Development of content and methods for teaching mathematics in special education setting. Open only to majors or minors in special education. Does not substitute for Math 340. No prerequisite. Math 100 and 203 are strongly recommended.

Math 365 Vectors and Vector Fields (4) (S)

Vectors, matrices, vector valued functions, line and surface integrals, Green's Theorem, Stokes' Theorem. Prerequisite: Math 234 and Math 327.

Math 375-376 Intermediate Probability and Statistics I-II (4 each) (FW-WS)

Probability distributions, sampling distributions, hypothesis testing, regression, analysis of variance, design of experiments. Sequential. Prerequisite: Math 233.

Math 383(g) Applied Regression Analysis (4) (F90)

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 391 Foundations of Mathematics (4) (FW)

Axiomatic systems; symbolic logic, sets, operations relations, functions, mappings, cardinality, continuum hypothesis. Prerequisite: Math 232.

Math 392-393 Intermediate Analysis I-II (4 each) (W-S)

A rigorous treatment of concepts of calculus including real number properties, limit, continuity, derivative, integral, and infinite series. Sequential. Prerequisites: Math 234 and Math 391.

Math 400(g) History of Mathematics (4) (F92)

Topical and chronological survey of the main branches of mathematics. Prerequisite: Math 233 or consent of instructor.

Math 405 Actuarial Science I (2) (S)

Applications and synthesis of mathematical concepts included in the first examination administered by the Society of Actuaries. Prerequisites: Math 234 and Math 327.

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) (S)
Euclidean geometry, transformations, cross ratio, geometry of circles, constructions. Prerequisite: Math 391.

Math 420(g) Mathematical Modeling (4) (F92)
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. Lagrange'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 440 Mathematics in the Secondary School (4) (F)
Objectives, methods, materials, and evaluation. Prerequisite: Math 391.

Math 444(g) Diagnosis and Remediation of Learning Difficulties in Mathematics (3) (on demand)
Techniques of diagnosis and remediation of mathematical learning difficulties exhibited by elementary and junior high school students. Prerequisite: Math 340 or Math 344.

Math 450(g) Numerical Analysis I (4) (W92)
Numerical solutions to equations, finite differences, interpolation formulas and numerical calculus. Prerequisites: Math 234 and a programming language.

Math 451(g) Numerical Analysis II (4) (S93)
Topics related to linear algebra and differential equations. Prerequisites: Math 327 and Math 331 and Math 450.

Math 467(g) Complex Analysis (4) (W92)
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) (F91)
Linear programming, network analysis, dynamic programming, queueing theory, decision analysis, advanced programming techniques. Prerequisites: Math 327 and Math 375.

Math 474(g) Probability (4) (W91)
Probability, probability distributions, limiting distributions. Prerequisite: Math 375.

Math 475 Mathematical Statistics (4) (S92)
Estimators, order statistics, hypothesis testing, likelihood tests, analysis of variance, linear models. Prerequisites: Math 392 and Math 474.

Math 480(g) General Topology (4) (W91)
Metric spaces, topological spaces, continuity, compactness, connectedness and separation axioms. Prerequisite: Math 392.

Math 490 Special Problems in Mathematics (1-6)
For advanced students to work on independent problems. May be repeated to a maximum of 6 credits. Prerequisite: Consent of instructor.

Math 491 Seminar - Mathematics (1-2)
Prerequisites: Senior standing and consent of staff.

Math 495(g) Theory of Numbers (4) (S93)
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) (SSII)
Probability, sampling distributions, estimation of mean and proportion, tests of hypotheses. Prerequisite: Consent of MBA coordinator and instructor.

Medical Technology

See Biology for curricula.

Multidisciplinary Studies Murray Commons 206 (218) 236-2954

Chair: Delmar Corrick

Faculty: Richard Bolton, Yvonne C. Condell, Mary Ann Hanna, Dennis Jacobs, Rupa Mitra, Rae Offutt, Carl L. Schmider, Thomas Tammara, Beverly Wesley

MULTIDISCIPLINARY STUDIES CURRICULA

Multidisciplinary Studies offers both liberal arts courses to meet B.A. and A.A. graduation requirements and selected career-oriented studies leading to the associate of science degrees.

A.S. Degrees

Associate in Science, Career Education

The Center for Multidisciplinary Studies offers an A.S. degree that allows the student and Faculty advisor to design an individualized career concentration. The curriculum requires at least 42 liberal arts credits, 36 credits in the career concentration, and electives that bring the total credits to 96. The liberal arts program will include a minimum of 12 credits in English composition and 6 in Liberal Arts division B, C, D and E.

The 36 credits in the career field must be approved by an advisor from Multidisciplinary Studies and may include credit earned in a supervised career placement or a completed college technical institute program.

MULTIDISCIPLINARY STUDIES COURSES

MDS 090 Sentence Improvement (1-2) (Fws)

Effective sentence-writing skills. Underlying structure of the sentence and its basic patterns.

MDS 092 Reading Development (3) (FWS)

Vocabulary development, word attack skills, comprehension and concentration skill building and reading rate improvement. Small group and individual activities.

MDS 093 Mathematics I (2) (FWS)

Designed to correct mathematics deficiencies in order to ensure success in areas requiring a good basic math background.

MDS 104 Issues in Evaluation (5) (Fws)

Collecting, organizing, and interpreting a variety of information about oneself. Clarifying values and career planning. Perspectives of "human potential."

MDS 105 Group Skills and Democratic Processes (5) (S)

Building effective group membership skills and understanding the relationship to democratic group functioning.

MDS 106 Career Exploration (1-3) (S)

Development of realistic concepts of work and an understanding of factors that affect career satisfaction and society's work ethic.

MDS 107 Human Development and Growth in the Modern World (4) (WS)

Examines the continuous process of human development and growth, the male and female systems in change, the factors involved in producing positive change, and the search for fulfillment of human potential. Prerequisite: MDS 104 or consent of instructor.

MDS 109 Individual Development Project (2) (Fws)

Devoted to the acquisition of skills and techniques necessary to make the successful transition from secondary school to the university. Required of all MDS students.

MDS 110 Expressive Writing (4) (Fws)

Narrative and descriptive writing. Students keep journals and write papers which are discussed in small group sessions.

MDS 111 Expository Writing (4) (Fws)

Development of the expository theme. Students will examine model essays (of definition, illustration, classification, comparison and analysis) and write expository themes.

MDS 112 Writing Research Papers (4)

Writing papers based on library research. Documentation techniques stressed. Prerequisite: MDS 111 or Engl 101.

MDS 113 Introduction to Critical Reading (3) (WS)

This course enhances college level reading skills in the area of comprehension and vocabulary and introduces the student to critical reading and the analysis of literature. Prerequisite: Satisfactory score on the reading placement test.

MDS 114 Topics in Written Communication (1-4) (Ws)

A problem or theme focused course to develop breadth or depth in a given topic.

MDS 115 Interpersonal Communication (4) (Fws)

Basic elements in everyday and more formal aspects of communication: audience or listener feedback, emotional involvement and organization of ideas.

MDS 117 College Survival Skills (2) (WS)

Management of time, notetaking from textbooks and lectures, effective review, preparing for tests, effective listening and analysis of individual learning styles.

MDS 118 Listening as Communicating (2) (Fws)

This course is designed to develop critical listening skills.

MDS 119 Contemporary Mathematics (4) (S)

Sets and numeration systems. Simple algebraic equations. Statistical topics: mean, median, standard deviation, normal distribution. Geometry concepts, introductory mathematics of finance.

MDS 120 Mathematics II (2-4) (Fws)

Basic algebra to college algebra. Prerequisite: MDS 093 or equivalent.

MDS 121 Business Mathematics (4) (W)

Includes review of math fundamentals, percentages, mark-up and discounting, payroll, taxes, insurance, inventory, etc.

MDS 122 Geometry (4) (S)

Basic Euclidean Geometry, with inductive and deductive reasoning. Prerequisite: MDS 120 or equivalent background determined by math competency test score.

**MDS 124 Topics in Oral Communication/
Symbolic Systems (1-4) (S)**

A theme-focused course to develop breadth or depth in a given topic. May be repeated for credit when topic changes.

MDS 125 Introduction to Computers (2) (Fws)

What a computer is and how it works. Determines interest and aptitude in this area.

**MDS 130 Exploring Marriage and Family (5)
(Fs)**

Examination of the social institutions of marriage and family. Current trends and theoretical constructs.

MDS 132 Human Sexuality (5) (Fw)

Sexuality in America: biological and physiological, sex-role stereotypes, how we learn masculine or feminine roles, different forms of sexual behavior.

MDS 160 Introduction to Dramatic Art I (3) (S)

Acquaints student with some of the structural qualities of drama and with selected masterpieces in the genre.

MDS 161 Introduction to Dramatic Art II (3) (W)

Acquaints the student with drama as a means of interpretation and commentary on society. Dramatic criticism and analysis.

MDS 170 Studies in Popular Culture (1-4) (S)

Individual topics in contemporary culture, discussing the need for self-expression, the relationship of art and society and man's freedom and fate.

MDS 171 Comedy—Society's Mirror (4) (Fws)

Comedy in its various forms. Analyzes how comedy reflects societal values, morals and behavioral expectations.

**MDS 172 Contemporary Values Through
Science Fiction (4) (S)**

Contemporary values reflected in selected readings in science fiction novels and short stories.

MDS 173 Life Stages and Literature (4) (W)

The stages of life as depicted in fiction. Works include those written for children, adolescents and adults.

MDS 174 Writings from Where We Are (4) (F)

The exploration of themes found in both personal experience and published poetry and fiction from the Upper Midwest.

MDS 175 The Fabulous 50s (4) (S)

An examination of how literature, art, music and film reflect and offer insight into the popular values of the United States during the decade of the 1950s.

MDS 176 Voyage of the Hero (4) (F)

An examination of the "quest motif" in classical, medieval, modern and popular literature, focusing on the "hero's" life from birth through apotheosis; attempts to understand the quest motif in relationship to the individual's personal development and quest.

**MDS 180-181 Plants and Humans I-II (3 each)
(Fs)**

The importance of plants to human social and economic development and the human role in the modification and distribution of plants.

**MDS 182 Ethnobotany: Plants, People &
Culture (4) (W)**

Study of the human uses of plants with special emphasis on utilizing a broader spectrum of wild and indigenous plants.

MDS 184 Topics in Natural Sciences (1-4) (W)

A problem or theme-focused course to develop breadth or depth in a given topic. May be repeated for credit when the topic changes.

**MDS 185 Humans and Their Environment (4)
(Fws)**

The study of the mechanisms by which balances and stability are maintained in nature.

MDS 190 Science of the Human Body (5) (Fws)

The human implications of biological processes as illustrated by the study of the structure and function of the human body.

MDS 195 Astronomy (4) (Fws)

Identification of stars, constellations, galaxies, etc., with the aid of star charts, telescopes and planetarium. Avocational interests explored.

**MDS 196 Foundation of Physical Science (4)
(S)**

To acquaint students with the basic concept of modeling in science to introduce them to the fundamentals of chemistry and physics. The course also examines how science affects our daily life and discusses some of the relevant science topics of the time. Prerequisite: Basic algebra or consent of instructor.

MDS 197 Natural Phenomena (4) (FWS)

An experimental course structured around the questions students pose about natural phenomena: mirages, Northern Lights, rainbows, UFOs, etc.

MDS 220 Social Science Research and Writing (4) (S)

Sampling techniques and questionnaire design, conducting original research, writing formal research papers and reports.

MDS 224 Topics in the Behavioral Sciences (1-4) (Ws)

Studies integrating concepts from two or more of the behavioral sciences. Topics will focus on themes, issues, problems in the social environment. May be repeated when topic changes.

MDS 226 Athletics in the United States (3) (W)

Athletics from a sociological perspective, including such topics as the functions and values of sports, the impact of sports on spectators and communities.

MDS 227 Corporations: History, Structure and Influence (4) (W)

Multidisciplinary look at the origins and development of large corporations. Case studies of representative companies.

MDS 228 The Automobile in America (4) (F)

The impact of the automobile on American society through the insights of history, economics, sociology, literature and popular culture.

MDS 229 Perspectives on 1980 (4) (S)

Examination of a single "landmark year" from the perspectives of anthropology, history, political science, sociology and economics. Introduces the distinctive approaches of these disciplines.

MDS 232 Women's Roles and Socialization in 19th- and 20th-Century America (4) (W)

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. A basis to develop an overall understanding of women's position in relation to society; the impact of society on women and their impact on society.

MDS 260 Introduction to Bookkeeping and Economics (3) (S)

Introduction to concepts such as the accounting cycle, financial statements, inventory, internal control, payroll accounting, supply and demand, circular flow of income, commercial banking.

MDS 281 Career Placement (1-8) (Fws)

Placement on the job in a position closely related to the student's academic work. For Multidisciplinary Studies students only. Prerequisite: Consent of instructor.

**Music Department
Center for the Arts 102
(218) 236-2101**

Chair: Robert Pattengale

Faculty: Michael Coates, Robert Cowles, Ruth Dahlke, Nathan Davis, Theodore DiSanti, David Eyler, Alice Fasman, Mark Fasman, David Ferreira, Henry Gwiazda, Debora Harris, Nancy Harris, Dwayne Jorgenson, Juli Kryslur, Terrie Manno, Alan Rawson, Andrew Smith, John Tesch, Ricardo Visus

Students entering a major program in Music should show a strong sensitivity to music and have a desire to communicate it to others. Entering students are assumed to have acquired basic music reading ability and performance experience in school groups and/or as soloists. Those lacking such background may have to complete additional preparation which may extend the time for program completion and graduation.

Transfer Students

Students transferring from other colleges will be examined upon entrance for advanced placement into the Musicianship program.

Private Lesson Fees

There are no private lesson fees for full-time music majors and minors at Moorhead State University. Non-music students may participate when space is available.

MUSIC CURRICULA

The Bachelor of Arts, Bachelor of Music and the Bachelor of Science in Education are offered in Music at Moorhead State University. The Bachelor of Music degree includes a program in Music Industry as well as the more traditional performance and composition programs.

Proficiency Requirements

Principal Performance Medium

All applied areas indicate levels of proficiency through the course numbers. The course levels do not correspond with the year of enrollment; 100 and 200 levels are lower-division courses. The 300 and 400 levels are upper-division courses and indicate advanced skills and knowledge of repertoire. Enrollment in upper-division levels is achieved following a jury recommendation. The upper-division must be attained prior to presenting a senior recital. The applied instructors have guides suggesting appropriate literature for each level. Upper-divisional evaluations will take place at specified times each quarter. Further study may be recommended to individual students who then may re-apply for upper-division status. It is suggested that students may apply at the end of Winter Quarter of the sophomore year.

Piano

All Bachelor of Science and Bachelor of Music—Performance/Composition majors are required to pass a proficiency exam demonstrating basic keyboard skills.

Guitar

All Bachelor of Science students must demonstrate proficiency in basic guitar techniques.

Recitals

All Bachelor of Science majors are required to present a half recital in their principal performance area. These are prepared with the help of the applied instructor and normally given during the student's senior year. Students may elect to take MUS 405 for credit for the recital. Bachelor of Music performance majors are required to present two recital programs—a half recital normally given during the junior year and a full recital during the senior year. Bachelor of Music composition majors are required to present a full recital of their works during the senior year. Credit for these is a part of the degree program and is not optional.

Majors in Music

Core courses for all majors (35 credits)

- Mus 101 Music Materials and Lit (2)
- Mus 101L Theory Foundations Lab (1)
- Mus 101E Ear Training I (1)
- Mus 102A Music Styles and Lit (2)
- Mus 102B Tonal System Language: Diatonic (2)
- Mus 102E Ear Training II (1)
- Mus 103A Tonal System Language: Chromatic (2)
- Mus 103B Other System Languages (2)
- Mus 103L Comprehensive Musicianship Lab (1)
- Mus 201 Musicianship IV (3)
- Mus 201L Musicianship IV Lab (1)
- Mus 201E Ear Training III (1)
- Mus 202 Musicianship V (3)
- Mus 202L Musicianship V Lab (1)
- Mus 202E Ear Training IV (1)
- Mus 203 20th Century (3)
- Mus 203L 20th Century Lab (1)
- Mus 205 Elements of Conducting (3)
- Mus 209 Non-Western Music (2)
- Mus 302 Classic/Romantic (3)
- Mus 302L Classic/Romantic Lab (1)

Bachelor of Arts Major (70 credits)

Core courses in music (35)

Applied study in principal performance area (9)

(3 credits of this must be at the 200 level)

Ensemble (9)

Choice of two: (8)

- Mus 301 Baroque Era and Lab (4)
- Mus 303 Renaissance/Middle Ages and Lab (4)
- Mus 314 History of Rock/Pop and Lab (4)
- Mus 315 History of Jazz and Lab (4)

Music electives (9)

Th/Lit (3-9)

Non-Performance (0-6)

Perf/Ens (0-3)

Bachelor of Science Major (Teaching) Vocal Music (98)

Core courses in music (35)

Applied study in voice/keyboard (21)

(minimum 3 credits in upper-division)

Music ensembles (11)

(including a minimum of 3 large and 3 small ensemble credits.)

Applied study in keyboard/voice (6)

Mus 114 and 115 or 116 Diction for Singers I-II-III (4)

(See related requirements.)

Mus 207 Choral Conducting (2)

Mus 301 Baroque Era (3)

Mus 301L Baroque Era Lab (1)

Mus 303 Renaissance/Middle Ages (3)

Mus 303L Renaissance/Middle Ages Lab (1)

Mus 339 Elementary School General Music Methods (3)

Mus 348 Middle School General Music Methods (3)

Mus 349 Senior High School Vocal Music Methods (2)

Music Elective (non-performance) (3)

Music Related Requirements:

- a) Pass Piano Proficiency
- b) Pass Guitar Proficiency
- c) Half Recital (30 minutes; can be taken for credit)
- d) One quarter of the language not studied in Diction (French or German); applies to the Liberal Arts requirement E.

Bachelor of Science Major (Teaching) Instrumental Music (97)

Core courses in music (35)

Applied study in principal performance area (20)

(minimum 3 credits in upper-division)

Music Ensembles (11)

(including a minimum of 3 large and 3 small ensemble credits)

Applied study in secondary instrument (3)

(Secondary instrument must be in a different "family" than the principal instrument—families are string, woodwind, brass and percussion.)

Applied study in keyboard (3)

Class applied music in Strings, Woodwinds, Brass,

Percussion (7) (from Mus 270-279)

Mus 206 Band Conducting

or Mus 208 Orchestral Conducting (2)

Mus 301 Baroque Era (3)

Mus 301L Baroque Era Lab (1)

Choice of one: (4)

Mus 303 Renaissance/Middle Ages and Lab (4)

Mus 314 History of Rock/Pop and Lab (4)

Mus 315 History of Jazz and Lab (4)

Mus 341 Organization of the Instrumental Program (2)

Mus 348 Middle School General Music Methods (3)

Music Elective (non-performance) (3)

Music Related Requirements:

- a) Pass Piano Proficiency
- b) Pass Guitar Proficiency
- c) Half recital (30 minutes) on principal instrument (can be taken for credit)

Teacher Licensure in Music for the State of Minnesota

Licensure areas for teachers of public school music are: Band K-12 and classroom music 5-12; Orchestra K-12 and classroom music 5-12; Vocal and classroom music K-9;

Vocal and classroom music 5-12.

All candidates for licenses must hold a baccalaureate degree and have completed the prescribed requirements for special areas in education. Vocal music education majors must complete the requirements for both levels of music education.

Pre-Professional Skills Test

The Minnesota State Board of Teaching has mandated that beginning April 4, 1988, all candidates for an initial teaching license must pass the Pre-Professional Skills Test. Although passing this examination is required for teacher licensure, it is not a requirement for graduation. The examination must be taken prior to being admitted to upper-division course work in the professional education sequence. Students will be examined in reading comprehension, grammar, writing and mathematics.

Bachelor of Music—Music Industry (125)

Major Area (76)

Core courses in Music (35)

Applied study in principal performance area (12)

Applied study in secondary performance area (3)

(Piano must be principal or secondary instrument.)

Ensembles (11)

Choice of two: (8)

Mus 301 Baroque Music and Lab (4)

Mus 303 Renaissance/Middle Ages and Lab (4)

Mus 314 History of Rock/Pop and Lab (4)

Mus 315 History of Jazz and Lab (4)

Music electives (7)

Music Industry (17)

Mus 321 Music Industry I (3)

Mus 322 Music Industry II (3)

Mus 381 Electronic Music (3)

Choice of one: (3)

Mus 421 Music Merchandising (3)

Mus 422 Music Arts Management (3)

Mus 423 Commercial Music (3)

Mus 481 Audio Production (3)

Mus 424 Practicum (1)

Mus 469 Internship (4)

Business Courses (28)

Acct 229 Principles of Accounting I (4)

Acct 230 Principles of Accounting II (4)

Acct 310 Managerial Accounting (4)

Mgmt 360 Principles of Management (4)

Mgmt 405 Small Business Management (4)

Mktg 310 Principles of Marketing (4)

Mktg 423 Marketing Communications (4)*

*Substitute Mktg 421 for Music Merchandising students

Free electives (4)

Related requirement: Economics 202 and 204 are required in Business and count also for Liberal Arts in the Social Science Division C.

Bachelor of Music (Performance/Composition) (125)

Concentrations: Voice, Keyboard, Instrumental, Composition

Major Performance Area (59)

Supportive Courses (66)

Bachelor of Music—Special Area Requirements

Major Performance Area—Voice Concentration (59)

Performance Study: (30)

100-200 level at 2 credits each (12)

300-400 level at 3 credits each (18)

Recitals (2)

Ensemble on Principal Performance Area (12)

Elective Ensemble (5)

Pedagogy/Literature/Repertory and Independent Study—

2-4 credits each (6)

Mus 114 and 115 or 116 Diction I-II-III (4)

(See related requirements)

Supportive Courses (66)

Core Courses (35 credits)

Mus 207 Choral Conducting (2)

Applied study in Piano (6)

Mus 301 Baroque Era (3)

Mus 301L Baroque Era Lab (1)

Mus 303 Renaissance/Middle Ages (3)

Mus 303L Renaissance/Middle Ages Lab (1)

Electives in Literature/Theory (15)

Related Requirements:

a) Pass piano proficiency

b) One year of the language not studied in Diction (French or German); applies to Liberal Arts requirement E.

Major Performance Area—Keyboard Concentration (59)

Performance Study: (30)

100-200 level at 2 credits each (12)

300-400 level at 3 credits each (18)

Recitals (2)

Ensemble and Accompanying—6-9 credits each (15)

Secondary Keyboard (2)

Mus 441 and 442 Piano Pedagogy (4)

Literature/Repertory and Independent Study—

2-4 credits each (6)

Supportive Courses (66)

Core Courses (35 credits)

One of the following courses: (2)

Band/Orchestral/Choral Conducting

Applied study—Secondary Performance Area (non-keyboard) (6)

Mus 301 Baroque Era (3)

Mus 301L Baroque Era Lab (1)

Choice of one: (4)
 Mus 303 Renaissance/Middle Ages and Lab (4)
 Mus 314 History of Rock/Pop and Lab (4)
 Mus 315 History of Jazz and Lab (4)
 Electives in Literature/Theory (15)

Major Performance Area—Instrumental Concentration (59)
 Performance Study: (30)
 100-200 level at 2 credits each (12)
 300-400 level at 3 credits each (18)
 Recitals (2)
 Ensemble on Principal Performance Area (12)
 Chamber Ensemble on Principal Performance Area (2)
 Elective Ensemble (5)
 Pedagogy/Literature/Repertory—4-6 credits and
 Independent Study—2-4 credits (8)
Supportive Courses (66)
 Core Courses (35 credits)
 One of the following courses: (2)
 Band/Orchestral Conducting Mus 206/8
 Applied Piano (6)
 (a piano proficiency must be passed.)
 Mus 301 Baroque Era (3)
 Mus 301L Baroque Era Lab (1)
 Choice of one: (4)
 Mus 303 Renaissance/Middle Ages and Lab (4)
 Mus 314 History of Rock/Pop and Lab (4)
 Mus 315 History of Jazz and Lab (4)
 Electives in Literature/Theory (15)

Major Performance Area—Guitar Concentration (59)
 Performance Study: (24)
 100-200 level at 2 credits each (12)
 300-400 level at 3 credits each (12)
 Recitals (2)
 Keyboard (2)
 Sec. Guitar (Classical or Electric) (6)
 Special Guitar Studies (6)
 (Lute, Slide, Acoustic, 12-string, Bass, Country, 2-hand
 Tap, etc.)
 Guitar Pedagogy /Guitar History/Repertoire (2)
 Jazz Improvisation (3)
 Ensembles (12)
 Small (9)
 Large (3)
Supportive Courses (66)
 Core Courses (35 credits)
 One of the following courses: (2)
 Band/Orchestral/Choral Conducting Mus 206/8
 Mus 301 Baroque Era (3)
 Mus 301L Baroque Era Lab (1)
 Choice of one: (4)
 Mus 303 Renaissance/Middle Ages and Lab (4)
 Mus 314 History of Rock/Pop/and Lab (4)
 Mus 315 History of Jazz and Lab (4)
 Mus 381 Electronic Music (3)
 Mus 410 Orchestration (3)

Electives in Literature, Theory, Composition, Electronic
 Music (15)

Major Performance Area—Composition Concentration (59)
 Composition (24)
 (6 of these at 300 level)
 Performance Study—Principal Performance Area (12)
 Performance Study—Secondary Performance Area (6)
 (One of these performance areas must be piano; a piano
 proficiency must be passed.)
 Recital (1)
 Ensemble (10)
 Mus 410 Orchestration (3)
 Independent Study (3)
Supportive Courses
 Core Courses (35 credits)
 Choice of Band/Orchestral Conducting (2)
 Mus 207 Choral Conducting (2)
 Mus 301 Baroque Era (3)
 Mus 301L Baroque Era Lab (1)
 Choice of one: (4)
 Mus 303 Renaissance/Middle Ages and Lab (4)
 Mus 314 History of Rock/Pop and Lab (4)
 Mus 315 History of Jazz and Lab (4)
 Mus 381 Electronic Music (3)
 Mus 481 Audio Production (3)
 Mus 417 Advanced Theory and Analysis (3)
 Electives in Literature/Theory and/or Advanced
 Conducting (10)

Minor in Music (36 credits)

Mus 111-112-113 Musicianship for Non-Majors (12)
 Class or Private Lessons in Major Performance Area (6)
 Music Ensemble (6)
 Electives in Music (12)
 (Elementary Education majors must include Mus 214
 Survey of Music Literature II among the electives.)

MUSIC COURSES

Mus 090 Basic Music (1) (F)

Music notation concepts, basic music reading skills,
 survey of traditional Western timbre sources. Required of
 all students judged likely to do poorly in Mus 101L and/
 or Mus 101. Offered only pass/fail. Students required to
 enroll in Mus 090 must pass before entering Mus 101L.
 Can be taken simultaneously with Mus 101. No credit
 given toward graduation in music major or minor.

Mus 101 Music Materials and Lit (2) (F)

Emphasis on listening skills. Focus on basic elements,
 genre, form. Exposure to a variety of music repertoires.
 Musical involvement activities. Concurrent with 101L or
 090. concurrently with Mus 101L.

Mus 101L Theory Foundations Lab (1) (Fw)

Rhythm, scales, chordal structures, symbols and devices.
 Concurrent with 101.

Mus 101E Ear Training I (1) (WS)

Competency-based Ear Training Foundations Lab involves recognition, reading dictation of simple rhythm patterns, scale and chord types, chord progressions and melodies.

Mus 102A Music Styles and Lit (2) (W)

Emphasis on listening skills. Focus on style as composite of elements. Exposure to variety of music repertoires. Music Involvement Activities. Prerequisite: 101; Concurrent with 102B and/or 101L.

Mus 102B Tonal System Language: Diatonic II (2) (Ws)

Principles and techniques of the tonal language system. Emphasis on diatonic melody and harmony. Prerequisite: Mus 101, 101L.

Mus 102E Ear Training II (1) (fS)

Development of aural/reading skills—Rhythmic concentration. Involves competency evaluation in reading and performing rhythms, aural/visual analysis of rhythmic devices, rhythm dictation and error detection. Some application to major performance medium. Prerequisite: Mus 101E

Mus 103A Tonal System Language: Chromatic (2) (S)

Continuation of 102B. Emphasis on chromatic melody and harmony. Prerequisite: 102B.

Mus 103B Other System Languages (2) (S)

Examination of theoretical principles and techniques of musical systems outside the traditional tonal language system: modal, extended tonal, atonal, selected non-Western systems. Prerequisite: Mus 103A.

Mus 103L Comprehensive Musicianship Lab (1) (S)

Integrates theory and literature study. Creative application through composition, improvisation, and performance. Prerequisite: 102A.

Mus 110 Fundamentals of Music (4) (FWS)

Basic musicianship for classroom teachers. Knowledge and skills developed through vocal, recorder, piano, creative and listening experiences. Not intended for majors or minors in music.

Mus 111-112-113 Musicianship for Non-Majors (4 each) (FWS)

Sequence encompasses music as design in sound. Study of musical elements and emphasis on broad repertory listening. Involves analysis, composition, performance, but designed for non-majors and assumes minimal previous musical experience. Must be taken in sequence.

Mus 114-115-116 Diction for Singers I-(Italian), II-(German), III-(French) (2 each) (FWS)
Fundamental diction in international phonetics.**Mus 150-168 Applied Music Performance—Level I (1-2 each) (FWS)**

Private instruction, pedagogy and master classes. May be repeated for credit. Areas as follows: 150 Piano, 155 Organ, 160 Voice, 165 Brass, 166 Woodwinds, 167 Strings, and 168 Percussion.

Mus 180 Beginning Class Piano (1) (FWS)

Beginning instruction in piano; open to any student. No previous musical training necessary. May not count toward fulfillment of applied music requirement for music majors.

Mus 201 Musicianship IV (3) (F)

Musicianship IV continues to develop materials of music with emphasis on form and analysis. To be taken concurrently with Mus Lab 201L.

Mus 201L Musicianship Lab IV (1) (F)

Instrumentation Lab: Basic principles of composition and arranging for specific instruments and ensembles. To be taken concurrently with Mus 201.

Mus 201E Ear Training III (1) (Fw)

Development of aural/reading skills—Melodic concentration. Involves competency evaluation in sight singing, aural/visual analysis of melodic devices, melodic dictation and error detection. Application to major performance medium. Prerequisite: Mus 101E

Mus 202 Musicianship V (3) (W)

Continuation of Mus 201. To be taken concurrently with Mus 202L.

Mus 202L Musicianship Lab (1) (W)

Continuation of Mus 201L. To be taken concurrently with Mus 202.

Mus 202E Ear Training IV (1) (Ws)

Development of aural/reading skills—Harmonic concentration. Involves competency evaluation in aural recognition, dictation, and error detection with various chord structures, progressions, and harmonic devices. Some application to keyboard and major performance medium. Prerequisite: Mus 101E.

Mus 203 Musicianship VI (3) (S)

Musicianship VI continues to develop materials of music with emphasis on 20th century. To be taken concurrently with Mus Lab 203L.

Mus 203L Musicianship Lab VI (1) (S)

Composition, improvisation, performance application of concepts and techniques presented in 203. To be taken concurrently with Mus 203.

Mus 204 Individual Projects in Music (1-2)
(FWS)

Individualized study in specialized areas in music. May be repeated for credit. Prerequisite: Mus 103.

Mus 205 Elements of Conducting (1) (F)
Baton techniques and score reading.

Mus 206 Band Conducting (2)
Band conducting techniques, rehearsal methods and score reading. Prerequisite: Mus 205.

Mus 207 Choral Conducting (2) (W)
Choral conducting techniques, rehearsal methods and score reading. Prerequisite: Mus 205.

Mus 208 Orchestral Conducting (2)
Orchestral conducting techniques, rehearsal methods and score reading. Prerequisite: Mus 205.

Mus 209 Non-Western Music Survey (2) (S)
An introduction to musics outside of the Western European tradition. Selected reading and listening materials from these areas/cultures are surveyed: African, Indian, the Far East, Indonesian, American Indian, Latin America, Middle East, and Eastern Europe. Study focuses on similarities and differences in musical style and cross influences between the various repertoires. Prerequisite: Mus 103, Mus 113 or consent of instructor.

Mus 211 Idea of Music (4) (FWS)
The nature of musical ideas as exemplified in the literature of various periods and styles. Not intended for majors or minors in music.

Mus 212 Music Topics (4) (on demand)
Studies in music literature. Different repertoires will be chosen for survey studies. The topics will be presented in a non-technical manner appropriate for the general student. Not recommended for majors.

Mus 213-214 Survey of Musical Literature I-II (4 each) (F-W)
A historical approach to musical literature. 213: Through the time of Beethoven. 214: From Schubert through the present. Mus 211: The Idea of Music recommended as a preliminary course. Not intended for majors in music.

Mus 215 History of Jazz (4) (FWS)
A survey of the development of jazz from its roots through the contemporary period. Emphasis will be placed on stylistic changes. Not intended for majors in music.

Mus 218 Composition—Beginning (1-3) (FWS)
Private and/or seminar instruction. Study includes composition in all musical styles. Prerequisite: Mus 103 or consent of instructor. May be repeated for credit.

Mus 219 Music Notation and Calligraphy (1)
(on demand)
Exploration of the principles and techniques of music manuscript preparation. Prerequisite: Mus 103, 113 or consent of instructor.

Mus 252 Singing Skills in Musical Theatre (2)
(FWS)
Principles of body alignment and breathing, vocal exercises, and diction. Designed for theatre students. May be repeated for credit with consent of advisor.

Mus 250-268 Applied Music Performance—Level II (1-2 each) (FWS)
Private instruction, pedagogy and master classes. May be repeated for credit. Areas as follows: 250 Piano, 257 Harpsichord, 259 Organ, 260 Voice, 265 Brass, 266 Woodwinds, 267 Strings, 268 Percussion.

Mus 270-279 Class Applied Music (1 each) (FWS)
Class instruction, including procedures and methods for use in public school classes. Areas as follows: 270 Double Reeds, 271 Single Reeds, 272 Flute, 273 High Brass, 274 Low Brass, 275 Percussion, 276 Percussion, 277 High Strings, 278 Low Strings, and 279 Guitar.

Mus 280-281 Class Applied Music (1) (FWS)
Class instruction. May be repeated for credit. Areas as follows: 280 Piano, 281 Voice.

Mus 301 Baroque Era (3) (W)
Survey of the Baroque period 1600-1750. Further Development of musicianship skills. Prerequisite: Mus 203 and 203L. To be taken concurrently with Mus 301 Lab.

Mus 301L Baroque Era Lab (1) (W)
Emphasizes performance, score study, and composition based on historical models. To be taken concurrently with Music 301.

Mus 302 Classic/Romantic Styles (3) (F)
Survey of the Classic and Romantic periods of music (1750-1900). Prerequisite: Mus 202 and 202L. To be taken concurrently with Mus 302 Lab.

Mus 302L Classic/Romantic Lab (1) (F)
Emphasizes performance, score study, and composition based on historical models. To be taken concurrently with Mus 302.

Mus 303 Middle Ages/Renaissance (3) (S)
Historical development of music during the Middle Ages and Renaissance periods. Further development of musicianship skills. Prerequisite: Mus 202 or equivalent. To be taken concurrently with 303L.

Mus 303L Middle Ages/Renaissance Lab (1) (S)
Emphasizes performance, score study, and composition based on historical models. To be taken concurrently with 303.

Mus 314 History of Rock/Pop (3) (W)
Historical and theoretical study of rock music from 1956 to the present. Prerequisite: Mus 202. Concurrent with 314L

Mus 314L History of Rock/Pop Lab (1) (W)
Emphasizes score study and transcribing. Concurrent with Mus 314.

Mus 315 Jazz History (3) (S)
Historical development of American jazz. Further development of musicianship skills. To be taken concurrently with Mus 315L. Prerequisite: Mus 202.

Mus 315L Jazz History Lab (1) (S)
Development of musicianship skills relating to jazz theory and jazz improvisational techniques. To be taken concurrently with Mus 315.

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 321 Music Industry I (3) (Fs)
In-depth study of music industry including: Music in the marketplace, song writing, publishing, copyright, licensing, merchandising and the record industry.

Mus 322 Music Industry II (3) (W)
Focuses particularly on management, agents, recording, unions and guilds, film, TV and radio, and career development.

Mus 330(g) Concert Band (1) (Fws)
Open to all students. 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. 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 339 Elementary School General Music Methods (3) (F)
Objectives, teaching methods, and materials in the elementary school vocal music program.

Mus 340 Music in the Elementary School (2) (Fw)
Objectives, methods, materials, and evaluation; required of elementary education majors. Prerequisite: Mus 110 or the equivalent.

Mus 341 Organization of the Instrumental Program (2) (F)
Administration of an instrumental program in public schools.

Mus 348 Middle School General Music Methods (3) (W)
General music in the middle school; teaching methods and materials, evaluation and administration.

Mus 349 Senior High School Vocal Music Methods (2) (S)
Objectives, teaching methods, materials, evaluation, and administration of the high school vocal music program.

Mus 350-368 Applied Music Performance-Level III (1-3 each) (Fws)
Private instruction, pedagogy, and master classes. May be repeated for credit. Areas as follows: 350 Piano, 355 Organ, 360 Voice, 365 Brass, 366 Woodwinds, 367 Strings, and 368 Percussion. Prerequisite: Upper-divisional jury.

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 to various Latin styles and rock. 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. Prerequisite: Mus 103 or 113.

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 380 Instrument Maintenance and Repair (2) (on demand)

Basic instrument maintenance and repair. On request.

Mus 381(g) Electronic Music (3) (FW)

Equipment and techniques of electronic music, including basic synthesis and recording techniques.

Mus 382(g) Solo and Ensemble Literature for Brass (1) (on demand)

Repertoire for brass instruments. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

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 405 Student Recital (1) (FWS)

On demand. May be repeated for credit.

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 417 Advanced Theory and Analysis (3) (on demand)

Continuation of the study of music through the use of advanced theoretical and analytical techniques. The composers and compositions studied may change each quarter. Prerequisite: Mus 302 and 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 424 Practicum (1) (Fws)

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. Prerequisite: Mus 441 and consent of instructor.

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

Literature pertaining to problems of string playing. Prerequisite: 2 credits of Mus 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. May be repeated for credit. 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: Upper-divisional jury and completion of 300 level.

Mus 469 Internship (4-16) (Fws)

Mus 470(g) Advanced Conducting (2)

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) (fS)

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 491(g) Music Literature: Solo Song (3) (Winter every other year)

Study of solo song literature. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

Mus 492(g) Music Literature: Orchestral (3) (on demand)

Study of orchestral literature. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

Mus 493(g) Music Literature: Choral (3) (on demand)

Study of choral literature. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

Mus 494(g) Music Literature: Chamber Music (3) (on demand)

Study of chamber music literature. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

Mus 495(g) Music Literature: Keyboard (3) (on demand)

Study of keyboard literature. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

Mus 496(g) Music Literature: Wind Band (3) (on demand)

Study of wind band literature. Intended for majors and minors in music. Prerequisite: Mus 103 or 113.

Mus 497(g) Music Literature: Opera (3) (Winter every other year)

Study of operatic literature. Intended for majors and minors in music. Prerequisite: Mus 103 or consent of instructor.

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)

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)****Mus 574 Music in the Classic Era (3)****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 (1-6) (Fws)****Nursing Department****Murray Commons, (218) 236-2693**

Director: Rhoda T. Hooper

Faculty: Jane Giedt, Donna Heald, Barbara Matthees, Joanna Snyder, Barbara Vellenga

NURSING CURRICULA

The upper-division nursing program is designed for registered nurses who want to earn the degree, Bachelor of Science in Nursing.

The program requires 61 credits in upper-division nursing.

Admission to the nursing program is limited to individuals who are licensed registered nurses or who are graduate nurses with license pending. Applicants must have earned 32 liberal arts credits before entering the program.

National League for Nursing Achievement Exam must be taken by all applicants.

Graduation requirements include 61 upper-division nursing credits, 64 liberal arts credits and lower division nursing and elective credits for a total of 192 credits.

Major in Nursing (B.S.N. Degree)

Required Nursing courses (61 credits)

Nurs 300 Foundations of Professional Nursing (3)

Nurs 310 Interaction and Change I (3)

Nurs 315 Patient Education in Nursing (4)

Nurs 320 Nursing Assessment: Individual (3)

Nurs 321 Nursing Assessment: Family (3)

Nurs 322 Nursing Assessment: Community (3)

Nurs 343 Well Family Nursing (3)

Nurs 344 Community Health Nursing (5)

Nurs 350 Altered Physiological Systems (4)

Nurs 360 Research in Nursing (3)

Nurs 382 Sexuality: A Nursing Perspective (3)

Nurs 401 Gerontological Nursing (3)

Nurs 410 Interaction and Change II (3)

Nurs 450 Nursing Preceptorship I (1)

Nurs 451 Nursing Preceptorship II (7)

Nurs 460 Nursing Management/Leadership (3)

Nurs 461 Nursing Management/Leadership Lab (2)

Nurs 470 Issues and Trends in Professional Nursing (2)

Nurs 4XX Nursing Within Cultural Diversity (3)

Nurs 496 Topics in Professional Nursing and Health Care (4)

NURSING COURSES**Nurs 300 Foundations of Professional Nursing (3) (F)**

Exploration of concepts of health, clients as adaptive systems, health delivery system, philosophy of nursing and professional nursing practice and conceptual framework.

Nurs 310 Interaction and Change I (3) (F)

Development of therapeutic interaction and awareness of self as the "nurse person." Prerequisite: Nursing majors only.

Nurs 315 Patient Education in Nursing (4) (W)

Principles of patient education and selected teaching-learning strategies as applied to real and simulated patient education situations.

Nurs 320 Nursing Assessment: Individual (3) (F)

Study of psychosocial levels and functioning of individuals; use of developmental theories in nursing practice. Prerequisite: Nursing majors only, Nurs 300 or concurrent registration.

Nurs 321 Nursing Assessment: Family (3) (W)

Emphasis on family system, development and crisis theories as they relate to family health and nursing care. Prerequisite: Nurs 320.

Nurs 322 Nursing Assessment: Community (3) (S)

Focus on community as client with emphasis on health problems and intervention strategies applied to populations; evaluation methods as a component of the nursing process. Prerequisite: Nurs 321.

Nurs 343 Well Family Nursing (3) (Sf)

Application of the nursing process to health promotion of the well family in the home setting. Prerequisites: Nurs 322, 350 or concurrent registration.

Nurs 344 Community Health Nursing (5) (Sf)

Application of nursing process in community health settings with individuals and families with identified health problems; community health agency functions. Prerequisites: Nurs 322, 350 or concurrent registration.

Nurs 350 Altered Physiological Systems (4) (W)

Correlation of pathophysiology with signs and symptoms of body dysfunction; analysis of adaptive mechanisms which maintain homeostasis. Prerequisite: College-level anatomy and physiology course.

Nurs 360 Research in Nursing (3) (S)

Introduction to nursing research process and its translation to nursing practice.

Nurs 382 Sexuality: A Nursing Perspective (3) (S)

A holistic approach which focuses on fostering healthy sexuality in illness and wellness through effective nursing practice.

Nurs 401 Gerontological Nursing (3) (F)

Nursing management of elderly clients and their families. Focuses on normal aging; common health problems; and ethical and sociopolitical issues in health care of the elderly.

Nurs 410 Interaction and Change II (3) (F)

Planned change, group process, and development of group leadership skills in context of professional nursing. Prerequisite: Nurs 310.

Nurs 450 Nursing Preceptorship I (1) (W)

Selection of preceptorship projects and development of a learning contract. Prerequisite: Nursing majors only and consent of instructor.

Nurs 451 Nursing Preceptorship II (7) (S)

In-depth exploration of self-selected area of nursing practice utilizing nursing process in promoting high level wellness. Prerequisite: All major courses or concurrent registration.

Nurs 460 Nursing Management/Leadership (3) (W)

Theories and functions of management and leadership styles as they relate to professional nursing.

Nurs 461 Nursing Management/Leadership Laboratory (2) (W)

Application of management theories and functions to nursing roles in health care settings. Prerequisites: Nurs 460 or concurrent registration.

Nurs 470 Issues and Trends in Professional Nursing (2) (S)

Analysis and discussion of trends and issues in health care as they relate to and influence the practice of professional nursing. Prerequisite: All major courses or concurrent registration.

Nurs 4XX Nursing Within Cultural Diversity (3) (W)

Application of the nursing process with culturally diverse clients.

Nurs 496 Topics in Professional Nursing and Health Care (4) (Ws)

Study of selected practices, issues and/or problems in health care delivery as they impact the consumer and the nursing profession. May be repeated as topics change.

Pharmacy

Cooperative Degree Program

MSU offers courses which enable students interested in pharmacy as a profession to complete their first two years and then apply for acceptance into the professional curriculum of any accredited School of Pharmacy. Most students normally transfer to NDSU or to the University of Minnesota to complete their pharmacy education but the academic requirements needed to successfully apply to other Pharmacy Schools can also be completed here. Curriculum requirements and application procedures vary between different universities so it is necessary to maintain close contact with the prepharmacy advisor in the Chemistry Department.

Philosophy Department Bridges 359, (218) 236-2478

Chair: Arnold Johanson

Faculty: Susan Cataldi, Mark Chekola, Theodore Gracyk, David Myers.

PHILOSOPHY CURRICULA

Philosophy courses are designed to encourage critical thinking about and examination of beliefs related to basic

aspects of human existence (such as morality, religion, society, the self, and knowledge) as well as to make students aware of what past and present thinkers have said about these issues. The philosophy major is suitable for students planning to enter such professions as law and theology and for those desiring a general liberal arts background, as well as for those planning on graduate study in philosophy. Philosophy is especially suitable as a second major (or as a minor) combined with almost any other major, since it provides a student with an opportunity to explore the philosophical bases of his or her other major.

Major in Philosophy B.A. Degree

Major Course Requirements (56 credits)

Phil 240 Symbolic Logic (4)

Phil 250 Classical Philosophy (4)

Phil 300 History of Ethics (4)

Phil 305 Modern Philosophy: 17th Century (4)

At least two of the following: (8)

Phil 304 Roman and Medieval Philosophy

Phil 306 Modern Philosophy: 18th Century

Phil 307 19th Century Philosophy

Phil 430 20th Anglo-American Philosophy

At least one of the following: (4)

Phil 301 Philosophy of Religion

Phil 320 Philosophy of the Arts

At least one of the following (4)

Phil 365 Philosophy of Science

Phil 370 Scepticism and Knowledge

Electives in Philosophy (24)

At least 28 credits of the major must be 300 or 400 level courses.

Language Recommendation

There is no language requirement for the major in philosophy; however, students planning to do graduate work in philosophy should carefully consider the desirability of intensive work in one or more languages. German, French or Greek are typically most relevant to graduate work. Early consultation with a faculty advisor is recommended.

Minor in Philosophy (32 credits)

Phil 110 Practical Reasoning

or Phil 240 Symbolic Logic (4)

Phil 115 Contemporary Moral Issues

or Phil 300 History of Ethics (4)

At least one of the following: (4)

Phil 250 Classical Philosophy

Phil 304 Roman and Medieval Philosophy

Phil 305 Modern Philosophy: 17th Century

Phil 306 Modern Philosophy: 18th Century

Phil 307 19th Century Philosophy

Phil 430 20th Century Anglo-American Philosophy

Electives in Philosophy (20).

At least 12 credits must be in 300 or 400 level courses.

PHILOSOPHY COURSES

Phil 101 Discovering Philosophy (4) (FWS)

An introduction to philosophical thinking and methods through an examination of fundamental philosophical issues drawn from such areas as morality, religion, society, the self and knowledge. No prerequisite.

Phil 110 Practical Reasoning (4) (FWS)

Development of critical thinking skills, with emphasis on interpreting and evaluating the reasoning of others and constructing good arguments. No prerequisite.

Phil 115 Contemporary Moral Issues (4) (FWS)

Application of ethical theory to some important moral issues, such as: abortion, euthanasia, sexual equality and discrimination, war, world hunger, animal rights, medical ethics, business ethics and capital punishment. No prerequisite.

Phil 120 World Religions (4) (Annual)

Study of beliefs and practices of the major religions of the world.

Phil 210 Special Topics in Philosophy

Topics will be announced in class schedule. Students may register more than once when content varies. No prerequisite.

Phil 211 Morals and Medicine (4) (Annual)

A consideration of some moral problems that arise in medicine, such as truth-telling, experimentation, paternalism, abortion, euthanasia, allocation of sparse resources and health care systems. No prerequisite.

Phil 214 Philosophy and Women (4) (Annual)

A survey and critical analysis of the major philosophical traditions in feminism, including liberal, Marxist, and radical feminist accounts of the origins and characteristics of women's economic, social and political oppression. The history of philosophical thought about the nature of women and their proper role in society will be discussed. Topics explored include abortion, rape, prostitution, the family, marriage, housework, equal opportunity, women in politics and others. No prerequisite.

Phil 240 Symbolic Logic (4) (Annual)

Modern symbolic logic including propositional calculus and first-order functional calculus. No prerequisite.

Phil 250 Classical Philosophy (4) (F)

A study of the development of philosophical thinking from the Presocratics through Aristotle. No prerequisite.

Phil 300 History of Ethics (4) (Annual)

Study of major theories and figures in moral philosophy, such as: Aristotle, Kant, utilitarianism, egoism, relativism, emotivism, naturalism. Prerequisite: One course in philosophy or consent of instructor.

Phil 301 Philosophy of Religion (4) (Annual)

An examination of religions from a philosophical standpoint. The course will include discussion of such issues as the existence and nature of God, religious experience and life after death. Prerequisite: One course in philosophy or consent of instructor.

Phil 304 Roman and Medieval Philosophy (4) (Alternate years)

Study of the history of Western philosophy after Aristotle, through the medieval period. The course will typically include study of such movements as Stoicism, Epicureanism, and Scepticism, and such philosophers as Sextus Empiricus, Augustine, Anselm, and Aquinas. Prerequisite: One course in philosophy or consent of instructor. Phil 250 recommended.

Phil 305 Modern Philosophy: 17th Century (4) (Annual)

Study of some major philosophers of the 17th century, such as Descartes, Spinoza and Locke. Prerequisite: One course in philosophy or consent of instructor.

Phil 306 Modern Philosophy: 18th Century (4) (Alternate years)

Study of some major philosophers of the 18th century, such as Leibniz, Berkeley, Hume and Kant. Prerequisite: Phil 250, or a 300 or 400 level course in philosophy, or consent of the instructor.

Phil 307 19th-Century Philosophy (4) (Alternate years)

Study of selected major philosophers of the 19th century, such as Hegel, Marx, Kierkegaard, Nietzsche, Schopenhauer and Mill. Prerequisite: Phil 250, or a 300 or 400 level course in philosophy or consent of instructor.

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 350 American Philosophy (4) (Alternate years)

Study of the development of American philosophy from Puritanism through Pragmatism. Prerequisite: One course in philosophy or consent of instructor.

Phil 355 Existentialism (4) (Alternate years)

An examination of the writings—both philosophical and literary—of representative existentialists, such as Nietzsche, Kierkegaard, Heidegger, Sartre and Camus. Prerequisite: One course in philosophy or consent of the instructor.

Phil 360 Marx and Marxism (4) (Alternate years)

An examination of the philosophy of Marxism. The course will deal with the major influences on Marx's thought (Hegel, the Young Hegelians and classical economics), Marx's social philosophy as formulated in philosophical and economic works, and 20th century developments such as the Soviet, Yugoslav and Frankfurt schools of Marxism. 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 430 20th Century Anglo-American Philosophy (4) (Alternate years)

Study of the major figures and movements in 20th-century Anglo-American philosophy. Typically, the course will deal with such movements as positivism, analytic philosophy, and philosophy of language. Philosophers considered might include Russell, Wittgenstein, Ayer, Moore and Quine. Prerequisite: One of Phil 250, 304, 305, 306 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 300 or 400 level 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 9 credits. A maximum of 4 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.

Physical Education

See Health-Physical Education-Recreation for Curricula.

PHYSICAL EDUCATION COURSES

PE 100-163 may not be repeated for credit.

PE 100 Fundamental Activities (1) (FWS)

Topical physical education activities (e.g., aerobic dance, tae kwon do, and personal defense)

PE 102 Weight Training (1) (FWS)**PE 103 Exercise and Body Development (1)****PE 104 Jogging (1) (FS)****PE 105 Junior Varsity Athletics (1) (FWS)**

Season long participation in an intercollegiate sport. Must be taken prior to PE 107. Prerequisite: Consent of athletic coach. May not be repeated for credit.

PE 107 Varsity Athletics (1) (FWS)

Season long participation in an intercollegiate sport. Prerequisite: PE 105, Consent of athletic coach. May not be repeated for credit.

PE 108 Racquetball (1) (FWS)**PE 111 Concepts of Physical Education (2) (FS)**

Examines basic concepts and principles of physical fitness and evaluates personal fitness level. Designs a personal physical fitness program to meet individual needs.

PE 112 Beginning Bowling (1) (FWS)**PE 113 Intermediate Bowling (1) (S)****PE 114 Beginning Golf (1) (FS)****PE 115 Intermediate Golf (1)****PE 116 Beginning Tennis (1) (FS)****PE 117 Intermediate Tennis (1) (FS)****PE 118 Gymnastics I (1)****PE 119 Gymnastics II (1)****PE 120 Wrestling (1)****PE 121 Handball (1)****PE 122 Track and Field (1)****PE 124 Badminton (1) (W)****PE 127 Beginning Archery (1) (W)****PE 128 Intermediate Archery (1) (W)****PE 130 Basketball (1) (FW)****PE 131 Volleyball I (1) (FW)****PE 132 Volleyball II (1)****PE 133 Softball (1) (Fs)****PE 134 Soccer (1) (Fs)****PE 135 Football (1)****PE 140 American Round and Square Dancing (1) (Fs)****PE 141 Intermediate Square Dance (1)****PE 142 Advanced Square Dance (1)****PE 143 Folk Dancing (1) (Fws)****PE 145 Beginning Modern Dance (1)****PE 148 Ballroom Dancing I (1) (Fws)****PE 149 Ballroom Dancing II (1) (Ws)****PE 150 Beginning Jazz (1)****PE 152 Beginning Ballet (1)****PE 153 Beginning Tap (1)**

PE 160 Beginning Swimming (1) (F)

This course is designed for the student to learn basic water safety skills and knowledge in order to make him/her safe in the aquatic environment.

PE 161 Intermediate Swimming (1) (F)

This course is designed to increase the watermanship of the student by adding to skills learned in the beginning course and to improve coordination and stamina.

PE 162 Swimmers (1) (W)

This course is designed to increase the student's endurance and versatility in the water by adding additional strokes, longer practice periods and placing greater emphasis on the techniques of each stroke.

PE 163 Advanced Swimmers (1) (W)

This course is designed to provide advanced swimming students with additional technique information on basic strokes and to introduce students to hybrid and other strokes. The students will also gain a high proficiency level in turns, dives and aquatic survival techniques.

Prerequisite: PE 162

PE 166 Life Guard Training (2) (Ws)

This course is designed to teach the student safety education in and around the aquatic environment and to teach basic rescue and resuscitation skills for emergency situations. Prerequisite: PE 161 or PE 162, Hlth 125.

PE 191 Activities Course - Block I (1-4) (F)

Designed for the physical education major, this course provides for skill development and knowledge of rules, terminology and strategies in soccer, softball, volleyball and basketball; non-traditional activities such as orienteering, games, bicycling; and introduces the student to principles involved in developing a personal physical fitness program.

PE 192 Activities Course - Block II (1-4) (W)

Designed for the physical education major, this course provides for skill development, knowledge of rules, terminology in gymnastics; and terminology and skill development in folk, square and social ballroom dance.

PE 193 Activities Course - Block III (1-4) (S)

Designed for the physical education major, this course provides for skill development, knowledge of rules, terminology and strategies in badminton, track and field, tennis and golf.

PE 194 Activities Course - Block IV (2) (Fws)

Designed for the physical education major, this course introduces the student to fundamental elementary school activities; and provides for skill development, knowledge of rules, terminology and strategies in team handball. Prerequisite: PE 191, PE 192, PE 193.

PE 195 Activities Course - Block V (2) (W)

Designed for the physical education major, this course provides for skill development, knowledge of rules and terminology in winter games; such as, nordic skiing, water polo, ice skating and broomball.

PE 200 Foundations of Physical Education (4) (Fs)

This course investigates the nature and scope of physical education including philosophy, objectives and the role of movement and fitness. It involves the application of historical and scientific foundations as they apply to physical education and sport and considers career and professional opportunities in physical education and sport.

PE 220 Applied Human Anatomy (4) (WS)

A study of the applied human anatomy with a focus on the musculoskeletal systems. The student will learn basic skeletal structure, make-up and functional capabilities at the various joints, the role of the musculature in human movement and a systematic means of establishing a conditioning program.

PE 223 Water Safety Instructor's Course (3) (S)

American Red Cross certification. Prerequisite: PE 162, PE 163.

PE 240 Physical Education in the Elementary School (2) (FWS)

Games, rhythms and other activities recommended for the physical education program in the elementary school.

PE 243 General Methods in PE (4) (FW)

This course is designed to teach the basic knowledge and skills to allow the student to understand the importance of effective teaching, learn a theoretical base for effective teaching, and develop performance skills necessary for effective teaching in physical education. Prerequisite: PE 200.

PE 250 Officiating Football (2) (F)

This course introduces the student to the role and function of the state high school leagues and local officiating associations. The student will learn the high school code of football rules and demonstrate a knowledge of the mechanics of administering a high school football contest.

PE 251 Officiating Basketball (2) (W)

This course familiarizes the student with state high school leagues and local official's associations. The student will learn the national federation basketball rules and will have on-the-court practical experience in learning the mechanics of administering a high school basketball game.

PE 252 Officiating Volleyball (2) (F)

This course is designed to teach students the officials' roles in intercollegiate and interscholastic matches, and to provide an opportunity for students to develop appropriate skills and knowledge to assume officiating responsibilities.

PE 294 Women and Sport (4) (FW)

A study of women and sport. Historical, sociological and psychological factors are examined. Legislation affecting participation, present status of women and sport, and future outlook are considered. Prerequisite: Junior standing or consent of instructor.

PE 310 Sport and Play in the United States (3) (FwS)

This course is an investigation of sport and play in American society. It involves the application of concepts from various disciplines to sport and play and the development of an understanding of the functions that sport and play serve in the United States.

PE 311 Motor Learning (3) (W)

A study of theoretical and practical knowledge of the individual, instructional and environmental variables relevant to teaching, learning and performing motor skills.

PE 320 Kinesiology (4) (WS)

This course is designed to develop an understanding of the mechanical principles that govern the effectiveness with which physical education and sport skills are performed. Prerequisite: PE 220.

PE 321 Human Physiology (4) (FW)

This course is designed to develop an understanding of the many physiological systems of the human body. Laboratory experiences include the application of physiological principles to health-related fitness.

PE 333 Pool and Waterfront Management (4) (S)

This course is designed to provide students with the knowledge and skills necessary to administer, operate, maintain and design safe pool and waterfront programs. National Pool Operators Certification Test will be provided at the completion of the course. Prerequisite: PE 166 or consent of instructor.

PE 348 Dance History (2)

A study of dance from primitive societies to present forms in art and education.

PE 350 Mechanical Principles of Sport (4) (FWS)

A study of applied anatomy of the human musculoskeletal systems and the analysis of the mechanical principles applied to human motion. Credit not applicable to a Health or Physical Education major or minor.

PE 351 Physiology of Sport (3) (FWS)

Application of physiological principles to athletic performance and physical conditioning programs. Credit not applicable to a Health or Physical Education major or minor.

PE 360 Elementary Methods in PE (4) (WS)

This course is designed to prepare students to effectively teach physical education to children in grades K-6. Course content reflects the idea that teaching is goal directed and a skill that requires practice. Students are required to observe, participate, teach and evaluate elementary school physical education. Prerequisite: PE 194, PE 243.

PE 361 Secondary Methods in PE (4) (FS)

This course is designed to prepare students to effectively teach physical education activities to students in grades 7 through 12. Prerequisite: PE 191, PE 192, PE 193, PE 243.

PE 371 Coaching Football (3) (F)

This course is intended to help prepare students for coaching football up to high school. Emphasis is placed on students developing a philosophy concerning all aspects of coaching football.

PE 372 Coaching Basketball (3) (FW)

This course is designed for students to acquire the knowledge and skills necessary to successfully coach basketball at the junior and senior high school levels.

PE 373 Coaching Baseball (3) (S)

This course is designed to provide students with the necessary background to coach baseball at the high school, American Legion or youth league levels.

PE 374 Coaching Track and Field (3) (S)

This course is designed to prepare students to effectively coach track and field to junior and senior high school students. It involves the application of strategies, placement of personnel and meet management. Students will learn about equipment, safety precautions and be able to perform basic track and field skills.

PE 375 Coaching Wrestling (3) (W)

This course is designed to prepare students to coach wrestling at the junior and senior high school levels.

PE 376 Coaching Golf/Tennis (3)

This course is designed to prepare students to coach competitive tennis at the junior and senior high school level.

PE 377 Coaching Softball (3) (FS)

This course is designed to teach the skills and knowledge necessary to coach fast or slow pitch softball. The course will also cover expectations of umpiring and score keeping.

PE 378 Coaching Swimming and Diving (3)

This course is designed to teach the skills and knowledge necessary to coach swimming and diving. The course will also cover expectations of officiating score keeping for swimming meets.

PE 379 Coaching Volleyball (3) (F)

This course prepares students to effectively coach volleyball at the elementary or secondary school level. Students learn about season and practice management, principles of physical training, development and analysis of skills, offensive and defensive team play, game management and evaluative procedures.

PE 384 Outdoor Leadership I (4) (S)

An introduction to essential components needed for successful outdoor leadership. Emphasis is on the development of competencies deemed necessary for responsible outdoor leadership. Prerequisite: Hlth 125, Rec 140, or consent of instructor.

PE 421(g) Physiology of Exercise (4) (FW)

A study of the function of those body systems most directly affected by and involved in exercise. Physiological considerations in human movement such as thermal regulations, performance at altitude and underwater, drugs and other ergogenic aids, and designing of specialized training programs will be pursued. Prerequisite: PE 321.

PE 435 Issues & Trends in Physical Education/Athletics (1-4)

Issues or trends of major concern in the discipline of Physical Education and athletics. The course may be repeated as content varies. Prerequisite: Senior standing or consent of instructor.

PE 452(g) Adapted Physical Education (4) (Fw)

This course provides the student with an introductory study to adapted physical education and includes strategies for meeting the needs of students with impairments in the least restrictive environment.

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 456(g) Curriculum and Assessment for Severely Handicapped (4) (F)

Examines program philosophy in teaching students with severe handicaps. Topics include curriculum approaches, methods of assessment, instructional techniques and team approaches.

PE 460 Principles of Coaching (4) (FWS)

This course is designed to introduce students to the nature of the coaching profession and to the principles necessary for effective coaching. Psychological and sociological aspects of coaching are explored and psychological techniques that can be applied to sport to enhance performance as well as personal growth are presented. Prerequisite: One coaching class.

PE 469 Internship (3-16) (FWS)

Designed to give students an opportunity to gain supervised clinical experiences working with a variety of state and local agencies. Prerequisite: Consent of instructor.

PE 474 Tests and Measurements in Physical Education (4) (FS)

This course deals with the theory of measurement in physical education, the selection and administration of appropriate tests, and the interpretation of results by fundamental statistical procedures.

PE 475(g) Administration of Athletics (3) (S)

This course is designed to be a culminating experience for the physical education major, providing an opportunity for the students to draw upon their classroom and practical experiences in formulating their philosophical bases for the variety of concerns related to organizing and administering athletic programs. Prerequisite: Senior standing or consent of instructor.

PE 476 Internship in Developmental/Adapted Physical Education (5) (FWS)

Supervised field experience in developmental/adapted physical education. This experience involves the student with persons, ages 3-21 years who exhibit various physical and/or mental handicapping conditions. 100 clock hours required. Prerequisite: Consent of instructor.

PE 495(g) Administration of Physical Education (3) (FS)

A study of problems, policies and procedures in the administration of physical education. Prerequisite: Senior standing or consent of instructor.

PE 540 Problems in Physical Education (3)

This course is designed to promote individual thought and group interactions relative to contemporary problems in physical education. Experiences include leading group discussions, classroom presentations and debating.

Physical Science

Information on the major in Physical Science (Teaching) may be found under Chemistry or Physics.

Physics-Astronomy Department Hagen 313, (218) 236-2141

Chair: Roger Sipson

Faculty: Vijendra K. Agarwal, Gerald Hart, K. Walter Vollmers, Walter Wesley, Walter Worman.

PHYSICS-ASTRONOMY CURRICULA

Major in Physics B.S. Degree

Major Requirements in Physics (69-70 credits)

Either Phys 111-112-113 Elementary Physics I-II-III (4 each)

And Phys 225 Introduction to Theoretical Physics (4)

Or Phys 200-201-202 General Physics I-II-III (5 each)

Phys 250 Elementary Modern Physics (4)

Phys 251L Elementary Modern Physics Laboratory (1)

Phys 305-306-307 Experimental Physics I-II-III (2 each)

Phys 330-331 Intermediate Mechanics I-II (3 each)

Phys 340 Electronics (4)

Phys 370-371 Electromagnetic Theory I-II (3 each)

Phys 372 Optics (3)

Phys 399 Thermodynamics (4)

Phys 405 Advanced Laboratory (2)

Phys 430-431 Quantum Mechanics I-II (4 each)

Phys 455 Senior Project (4)

Electives in Physics (6) 300 level or higher

Requirements in Related Fields (34 credits)

Chem 111-112 General Chemistry I-II (4 each)

Chem 111L-112L General Chemistry Laboratory I-II (1 each)

Math 231-232-233-234 Calculus I-II-III-IV (4 each)

Math 331 Differential Equations (4)

Engl 287 Technical Report Writing (4)

Physical Science Teaching Major

This program requires a physics major with a chemistry minor or a chemistry major with a physics minor. It meets the Minnesota requirements to teach physics, chemistry or physical science.

Physics Major Requirements (51)

Phys 101 Introduction to Physics (3)

Phys 101L Introduction to Physics Laboratory (1)

Phys 106 Energy and Society (3)

Phys 200-201-202 General Physics I-II-III (5 each)

Phys 250 Elementary Modern Physics (4)

Phys 305-306-307 Experimental Physics I-II-III (2 each)

Phys 330 Intermediate Mechanics I (3)

Either Phys 331 Intermediate Mechanics II (3)

Or Phys 371 Electromagnetic Theory II (3)

Phys 340 Electronics (4)

Phys 370 Electromagnetic Theory I (3)

Phys 399 Thermodynamics (4)

Phys 440 Secondary Science Teaching Methods (4)

Requirements in Related Fields (20)

Math 231-232-233 Calculus I-II-III (4 each)

Biol 111,111L Cell Biology (4)

Minor in Physics B.A. Degree

Either Phys 111-112-113 Elementary Physics I-II-III (4 each)

And Phys 225 Introduction to Theoretical Physics (4)

Or Phys 200-201-202 General Physics I-II-III (5 each)

Phys 250 Elementary Modern Physics (4)

Phys 305-306-307 Experimental Physics I-II-III (2 each)

Phys 340 Electronics (4)

Approved Electives in Physics (6)

Minor in Physics (Teaching) Requirements in Physics (32 credits)

Either Phys 200-201-202 General Physics I-II-III (5 each)

Or Phys 111-112-113 Elementary Physics I-II-III (4 each)

And an approved elective in Physics 300 level or higher (3 credits)

Phys 250 Elementary Modern Physics (4)

Phys 305-306-307 Experimental Physics I-II-III (2 each)

Phys 340 Electronics (4)

Phys 440 Secondary Science Teaching Methods (4)

(All teacher education requirements shall be fulfilled to complete this minor.)

Minor in Astronomy B.A. or B.S. Degree (37-40 credits)

This minor is not sufficient to qualify a person to do professional work in astronomy, nor in general will it qualify a person for graduate work in astronomy. For those interested in astronomy as a career, a physics and/or mathematics major combined with this minor, is strongly urged.

Minor Requirements in Astronomy

Ast 100 Introduction to Astronomy (4)

Ast 100L Introductory Astronomy Laboratory (1)

Either Ast 200 Cosmology (4)

Or Ast 260 Planetary Science (4)

Ast 380 Celestial Mechanics (3)

Ast 410 Astrophysics (3)

Ast 499 Astronomy Project (3)

Either Phys 111-112-113 Elementary Physics I-II-III (4 each)

And Phys 225 Introduction to Theoretical Physics (4)

Or Phys 200-201-202 General Physics I-II-III (5 each)

Phys 250 Elementary Modern Physics (4)

Phys 251L Elementary Modern Physics Laboratory (1)

Phys 330 Intermediate Mechanics I (3)

PHYSICS COURSES

Phys/Chem 090 Science Learning Clinic (1)

The course will consider techniques for helping students overcome science anxiety and help in the development of better science study skills. Credit not applicable to degree.

Phys 101 Introduction to Physics (3) (FWS)

Introductory survey of physical concepts: Topics from mechanics, electricity, magnetism, waves and atomic physics. Prerequisite: None. May be taken without Phys 101L.

Phys 101L Introductory Physics Laboratory (1) (S)

Experimentation in basic physics. Corequisite or prerequisite: Phys 101 or permission of instructor.

Phys 105 Physics of Music (4) (W)

Physical principles governing the production, transmission and reception of musical sound. A background in music is strongly recommended.

Phys 106 Energy and Society (3) (On demand)

Energy concepts and energy conversion processes. Traditional sources and depletion. Alternate sources: solar, nuclear, hydro, wind, fusion. Environmental and ecological considerations. Prerequisite: None.

Phys 110 Topics in Physics (1-3) (On demand)

A study of a specific area of physics. See instructor for specific title and prerequisite.

Phys 111-112-113 Elementary Physics I-II-III (4 each) (FWS)

Concepts and principles of mechanics. Concepts and principles of fluids, heat, sound. Concepts and principles of light, electricity and magnetism and modern physics. Includes six hours of activity-based learning in a computer-equipped laboratory. Prerequisite: Math 133. Courses must be taken in sequence.

Phys 120 Fundamental Physical Science (4) (On demand)

This course will cover properties of matter, naked eye astronomy and electric circuits in a laboratory setting. Activity-based conceptual learning, appropriate to the elementary classroom and to the life-long learning of science, will be modeled in the course.

Phys 200 General Physics I (5) (F)

Calculus-based study of mechanics: Newton's Laws for linear and rotational motion. Work, energy, linear momentum, angular momentum and harmonic motion. Includes one 3-hour laboratory per week. Corequisite: Math 232.

Phys 201 General Physics II (5) (W)

Continuation of Phys 200. Includes gravitation, fluids, wave motion, thermal physics, electric charges and electric field and potential. Includes one three-hour laboratory per week. Prerequisite: Phys 200 or permission of instructor.

Phys 202 General Physics III (5) (S)

Continuation of Phys 201. Includes capacitance, electric circuits, magnetic fields, electromagnetic waves and geometrical and physical optics. Includes one three-hour laboratory per week. Prerequisite: Phys 201 or permission of instructor.

Phys 210 Topics in Modern Physics (1-3)

(On demand)

Study of a specific area of modern physics. See instructor for topic title and prerequisite.

Phys 215 Introduction to Sound Measurement (2) (S)

Designed for anyone who needs to make or interpret sound measurements. Includes laboratory experience with typical equipment. Prerequisite: Math 134 or equivalent.

Phys 225 Introduction to Theoretical Physics (4) (S)

An introduction to problem solving in theoretical physics. Topics will include oscillations, waves, electric fields, magnetic fields and electromagnetic waves. Prerequisite: Math 231 and Phys 113 or Phys 202.

Phys 250 Elementary Modern Physics (4) (S)

Topics: special relativity, wave-particle duality, Bohr atom, quantum mechanics, hydrogen atom, many electron atoms, nuclear properties and nuclear reactions. Prerequisite: Phys 202 or Phys 225.

Physics 251L Elementary Modern Physics Laboratory (1) (S)

An elementary laboratory in which the student explores a number of the fundamental experiments central to the development of modern physics. Corequisite or prerequisite: Phys 250.

Phys 305-306-307 Experimental Physics I-II-III (2 each) (FWS)

Study of laboratory techniques and measuring instruments. One lecture and one three-hour laboratory per week. Prerequisite or corequisite: Phys 202 or Phys 225.

Phys 310 Introduction to Relativistic Physics (3) (On demand)

Topics: principle of relativity, Lorentz transformations, space-time diagrams, energy and linear momentum, and equivalence of energy and rest mass. Prerequisite: Phys 202 or Phys 225 or permission of instructor.

Phys 330-331-332 Intermediate Mechanics I-II-III (3 each) (FWs)

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. Prerequisite: Math 331 and Phys 202 or Phys 225.

Phys 340 Electronics (4) (W)

Operational approach to circuit electronics: Network theorems, four-terminal networks, filters, feedback, nonlinear circuits, biasing, active devices, amplifiers and oscillators. Prerequisite: Phys 202 or Phys 225.

Phys 360 Theoretical Acoustics (4) (On demand)

Topics: vibrating systems, wave propagation, acoustical filters, architectural acoustics, microphones, loudspeakers, sound radiation. Prerequisite: Math 331 and Phys 202 or Phys 225.

Phys 361 Advanced Acoustical Measurements (2) (On demand)

Experimental study of sound radiation, acoustic filters, nonlinear systems, etc. Detailed discussion of instrumentation characteristics. Prerequisite: Phys 215 and 360 or permission of instructor.

Phys 370-371(g) Electromagnetic Theory I-II (3 each) (FW)

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 or Phys 225.

Phys 372(g) Optics (3) (S)

Geometrical optics, interference, diffraction, polarization and optical instruments. Prerequisite: Phys 371.

Phys 373 Optics Laboratory (1) (On demand)

Laboratory techniques of physical and geometrical optics. Corequisite: Phys 372.

Phys 399 Thermodynamics (4) (On demand)

Elements of classical thermodynamics, kinetic theory and statistical mechanics. Prerequisite: Phys 330 or Chem 341 and Math 234 or permission of instructor.

Phys 405 Advanced Laboratory (2) (On demand)

Advanced experimental techniques of data acquisition and analysis to gain a better understanding of principles in condensed matter, nuclear and other branches of physics. Computer-assisted experimentation will also be included. Prerequisite: Senior standing physics major or permission of instructor.

Phys 410 Astrophysics (3) (On demand)

Mathematical consideration of various topics in introductory astrophysics. Topics may vary slightly depending on interests of instructor and participants. Prerequisite: Junior status in physics. May be taken as Ast 410.

Phys 430(g) Quantum Mechanics I (4) (On demand)

Application of quantum mechanics to atoms and molecules. Prerequisite: Phys 250 and Math 331 or permission of instructor.

Phys 431 Quantum Mechanics II (4) (On demand)

Applications of nonrelativistic quantum mechanics to many-electron atoms, molecules and atomic nuclei. Prerequisite: Phys 430 or permission of instructor.

Phys 432(g) Introductory Solid State Physics (3) (On demand)

Crystalline structure of solids. Lattice properties. Electron theory of metals. Prerequisite: Phys 250, 430, or permission of instructor.

Phys 440 Secondary Science Teaching Methods (4) (W)

Materials and methods appropriate for junior and senior high school classes and laboratories. Must be taken prior to student teaching. Prerequisite: Junior or senior standing in a science education program. (Same as Biol 440 or Chem 440.)

Phys 455 Senior Project (4) (On demand)

A project involving experimental and/or theoretical research on a physics topic. It will involve extensive library research as well. A detailed written report and an oral presentation are required. Prerequisite: Senior standing in physics.

Phys 490 Special Topics in Physics (1-4) (On demand)

Special intermediate and advanced topics in physics. Area and credit to be specified in transcript.

**Political Science Department
MacLean 362, (218) 236-2942**

Chair: David Flint

Faculty: Dean Alger, Philip Baumann, Andrew Conteh,
James Danielson

POLITICAL SCIENCE CURRICULA

Major in Political Science B.A. Degree

Major Requirements in Political Science (52 credits)

Pol 110 Introduction to Political Science (4)

Pol 120 American National Government and Politics (4)

Pol 160 International Relations (4)

Pol 250 Comparative Governments of
Western Europe (4)

Pol 310 Scope and Methods of Political Science (4)

Pol 410 Topics in Western Political Thought (4)

At least one quarter of 400-level seminar (Pol 420 or 490)
to be selected by the student (3-4).

Sufficient electives in Political Science to bring total
Political Science credits to 52.

Requirements in Related Areas (36 credits)

Electives in the following areas, including at least two
courses each in two of the areas:

American Studies or Multicultural Studies

Anthropology or Sociology Economics

Geography

History

Mass Communications or Speech Philosophy

Psychology

Orientation Requirement in Research Tools

Depending on particular interests, the student will, in
consultation with an advisor, fulfill a one-year orientation
program in appropriate research tools, to consist of one of
the following sequences of courses listed below:

1. Any three-course sequence in one foreign language.
2. Mathematics 274 and 275 and one of the following:
Philosophy 240, 365 or 370.
3. Philosophy 240 and Mathematics 274 and either
Philosophy 365 or 370.

**Major in Political Science—Social Studies
(Teaching)**

Only the approved Social Studies major can be accepted
for secondary teaching certification. See Social Studies.

Minor in Political Science (28 credits)

Pol 110 Introduction to Political Science (4)

Pol 120 American National Government and Politics (4)

Plus 20 credits of Electives

POLITICAL SCIENCE COURSES

**Pol 110 Introduction to Political Science (4)
(FWS)**

The relationship of political science to other social and
behavioral sciences, the concept of the political system
and the variety of political systems throughout the world,
the core problems, issues and ideologies common to
political systems, and the causes and consequences of
individual and group political behavior.

**Pol 120 American National Government and
Politics (4) (FWS)**

Fundamentals of political institutions, structures and
processes.

Pol 160 International Relations (4) (FW)

Nation-state and sovereignty; the network of economic,
political, cultural and technological interdependence of
peoples; national interests and motivations; power
politics, diplomacy, intelligence and war.

Pol 221 State and Local Government (4) (FW)

The structure, operation and politics of municipal, county
and regional units of government; legislative, executive
and judicial branches of state government.

Pol 230 Introduction to the Law (4) (WS)

The philosophy of law; its social context; justice and its
implications; evolution of legal concepts.

Pol 232 Criminal Law (4) (FWS)

Substantive criminal law, development and meaning of
principles of criminal law, current issues.

Pol 240 Public Administration (4) (W)

Public bureaucracy in the democratic political system.

**Pol 250 Comparative Governments of Western
Europe (4) (WS)**

Examination of the political systems of the U.K., France,
the Federal Republic of Germany, and Italy; as well as
trans-national cooperation between them.

**Pol 290 Introductory Seminar in Political
Science (2-4) (F)**

Examination of an issue at an introductory level in
seminar setting. May be repeated as topic varies.

Pol 310 Scope and Method (4) (F)

Approaches to the study of politics: Methodologies and
techniques of political research.

Pol 320 The American Congress (3) (S)

Congressional decision-making, organization and
relationships with other branches of the federal
government.

Pol 321 The American Presidency (3-4) (S)

Presidential decision-making and relationships with other
branches of the federal government.

Pol 324 American Political Parties (3-4) (S)

Parties and interest groups in the American political
system.

Pol 328 The Media and Politics (3-4) (WS)
Concepts of political communication, socialization and public opinion. The media's role in politics, including relations between the media and government, with special focus on the media's impact on presidential elections. Prerequisite: Pol 120.

Pol 330 The Judicial System (4) (F)
The legal institutions, their functions and procedures; the Anglo-American experience; the American judicial system.

Pol 341(g) Public Policy (3-4) (F)
The policy processes and issues of the national government.

Pol 352(g) Political Problems in Developing Countries (3-4) (S)
Social and economic conditions affecting political institutions in the developing countries. The Third World in international relations.

Pol 360(g) American Foreign Policy (4) (F)
U.S. foreign policy: its historical evolution, geographical position, economic, military and political interest.

Pol 361(g) Topics in International Law (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) (S)
The 19th 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 420(g) Seminar in American Politics (3-4) (WS)
Research and advanced analysis of selected topics; supervised individual studies. May be repeated as content is changed. Prerequisites: Pol 110 and 120 or consent of the instructor.

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. Prerequisite: Two of the following courses (at least one of which must be in political science): Pol 230, 232 (Same as CJ 201), 330, Soc 307, MC 440, Acct 200 or Acct 305.

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. Either Pol 420 or Pol 490 is taught once in winter and once in spring.

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. Prerequisite: Pol 110 and 120 or consent of instructor.

Pol 469 Student Internship (3-16) (FWS)
A maximum of 6 credits may be used as electives to fulfill the "Major Requirements in Political Science." A maximum of 10 credits may be used to fulfill the "Requirements in Related Areas."

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. Either Pol 420 or Pol 490 is taught once in winter and once in spring.

Pol 590 Graduate Seminar in Political Science (2-4) (on demand)
Examination of an issue, problem or concept at a graduate level in a seminar setting. May be repeated as topic varies. Prerequisite: Pol 110 and 120 or consent of instructor.

Pol 599 Thesis in Political Science (1-6) (on demand)
Registration only after consultation with major advisor.

Psychology Department Bridges 360, (218) 236-2802

Chair: David Cole

Faculty: Bradley Bremer, Magdalene Chalikia, James Condell (sabbatical leave 91-92), A. Derick Dalhouse, Elizabeth Danielson, Ernest Hallford, Richard Kolotkin, Gary Nickell, Margaret Potter, Donald Preussler, Phillip Rice, Helen Wilson

PSYCHOLOGY CURRICULA

Major in Psychology B.A. Degree (64 credits)

Core Requirements in Psychology (28 credits)

Psy 103-104-105 Introductory Psychology I-II-III (12)*

Psy 106-107 Introductory Psychology Laboratory I-II (2)
Psy 231-232 Psychological Statistics and Methodology I-II (10)

Psy 481 Seminar in Psychology (4)

* An alternative sequence (Psy 113, followed by any two of Psy 115, Psy 117, or Psy 119) may be substituted with departmental approval. Credit, toward the major requirements in psychology, is given for one 12-hour sequence only.

Any two of the following courses (8):

Psy 442 Learning (4)

Psy 444 Motivation and Emotion (4)

Psy 445 Physiological Psychology (4)

Psy 446 Perception (4)

Psy 447 Comparative Psychology (4)

Psy 448 Cognition (4)

Any five of the following courses (20):

Psy 301 People, Work, and Organizations

Psy 303 Environmental Psychology

Psy 320 Social Psychology

Psy 321 Attitude Organization and Change

Psy 322 Topics in Social Interaction

Psy 351 Psychology of Intelligence

Psy 352 Psychological Measurement

Psy 353 Psychology and the Arts

Psy 401 Child Psychology

Psy 402 Adolescent Psychology

Psy 403 Adulthood and Aging

Psy 417 Child Psychopathology

Psy 461 Theories of Personality

Psy 463 Abnormal Behavior

Psy 465 Clinical Psychology

Psy 467 Chemical Dependencies

Psy 470 History of Psychology

Electives from any 200, 300, or 400 courses (8).

Requirement outside of Psychology (4)

Math 121 Intermediate Algebra

(this requirement may be waived if the student has had two years of high school algebra or has passed a mathematics proficiency test administered by the Mathematics Dept.); Math 121 is a prerequisite for Psy 231.

Minor in Psychology (Non-teaching) (38-39 credits)

Core Requirements in Psychology (18-19)

Psy 103-104-105 Introductory Psychology I-II-III (12)*

Psy 106-107 Introductory Psychology Laboratory I-II (2)

Psy 231 Psychological Statistics and Methodology I (5); minors may substitute Math 274 (4) or Soc 350 (4).

Psy 346 Principles of Behavior (4)

* The alternative sequence mentioned above for psychology majors (Psy 113 followed by any two of Psy 115, or Psy 117, or Psy 119) may be substituted with departmental approval.

Elective sequence, plus one additional course at the 300 level or above from the following (16)

A. Clinical—Psy 461-463-465 (12)

B. Developmental—Psy 401-402-403 (12)

C. Differential—Psy 301-351-352-353 (12)

D. Social—Psy 303-320-321-322 (12)

Minor in Psychology (Teaching) (38-39 credits)

Core requirements in Psychology (18-19 credits)

Psy 103-104-105 Introductory Psychology I-II-III (12)*

Psy 106-107 Introductory Psychology Laboratory I-II (2)

Psy 231 Psychological Statistics and Methodology I (5);

minors may substitute Math 274 (4) or Soc 350 (4)

* The alternative sequence mentioned above for psychology majors (Psy 113, followed by any two of Psy 115, Psy 117, or Psy 119) may be substituted with departmental approval.

Psy 320 Social Psychology (4)

Psy 346 Principles of Behavior (4)

Psy 351 Psychology of Intelligence (4)

Psy 440 Psychology in the Secondary School (4)

Psy 463 Abnormal Psychology (4)

Note: Students wishing to teach psychology in the State of Minnesota should take the Social Studies Major for Secondary Education with a core in psychology. (See Social Studies).

Master of Science-School Psychology (48 credits).

See Graduate catalog for full description.

Specialist in School Psychology (42 credits).

See Graduate catalog for full description.

PSYCHOLOGY COURSES

Psy 103-104-105 Introductory Psychology I-II-III (4 each) (FWS)

Year-long survey of psychological topics such as learning, motivation, emotion, intelligence, personality and social relations. Covers psychological theories, current knowledge and research techniques. Emphasizes preparation for advanced psychology courses. Enrolled students may not take Psy 113 for credit.

Psy 106 Introductory Psychology Laboratory I (1) (FWS)

Classical experiments in psychology with emphasis on methodology and report writing. Prerequisite: Concurrent or prior enrollment in Psy 103 or 113.

Psy 107 Introductory Psychology Laboratory II (1) (FWS)

Initiating, conducting and reporting a simple experimental procedure. Investigating research methodology on social issues in psychology. Prerequisite: Psy 106.

Psy 113 General Psychology (4) (FWS)

Survey of content and methods of modern psychology. Students in 113 may not take Psy 103, 104, or 105 for credit.

Psy 115 Developmental Psychology (4) (FWS)

Psychological development of the individual from conception to death, including genetic, pre-and post-natal influences; relations with parents and peers; social, emotional and intellectual development. Prerequisite: Psy 113.

Psy 117 Personality (4) (FWS)

Introduction to the study/explanation of human behavior, motivation and conflict emphasizing personality as viewed by a variety of theorists. Prerequisite: Psy 113.

Psy 119 Social Behavior (4) (FWS)

The influence of other people on the behavior and attitudes of individuals. Topics include attitude change, the effect of being a part of a group, attraction, aggression, sex roles and discrimination. Theory and application. Prerequisite: Psy 113.

Psy 198 Independent Study for External Studies (1-4)**Psy 201 Contemporary Issues in Psychology (4)**

An in-depth look at topics in psychology and how they relate to the situations and problems of contemporary society. Prerequisite: Psy 113, 103, or the equivalent.

Psy 217 Alcoholism and Drug abuse (4) (FWS)

Informational survey and study of alcoholism and drug abuse, a major health problem with substantive psychological components. The socio-physiological impact of drugs in general and their misuses and abuses will be discussed. Prerequisite: 8 psychology credits or consent of instructor.

Psy 219 Applied Psychology (4) (S)

Introduction to applied specialties in psychology. Provides an overview of how psychology may be used in applied settings and how students may prepare themselves for professional and paraprofessional positions in business and human service agencies. Prerequisite: 8 psychology credits or consent of instructor.

Psy 220 The Psychology of Women (4) (FWS)

The interacting effects of biology, physiology, and psychology on female development, providing evidence on sex differences and role differentiation. Prerequisite: 8 credits of psychology or consent of instructor.

Psy 231-232 Psychological Statistics & Methodology I-II (5 each) (Fw-WS-Sf)

Psy 231: Introduction to research methods in psychology; descriptive and inferential statistics; elementary hypothesis testing. Laboratory included. Prerequisite: Psy 105 or equivalent, Psy 106, Math 121.

Psy 232: Analysis of variance designs; multiple-comparison tests; nonparametric tests; computer applications to statistics. Laboratory included. Prerequisite: Psy 231 or equivalent.

Psy 292 Directed Research (1-4)

Conduct of research under direct supervision of a faculty member. Emphasis is on experience and learning with regard to research design and analysis. No more than 8 credits. Prerequisite: Psy 103 or 113.

Psy 301 People, Work and Organizations (4) (W)

Understanding the behavior of individuals at work plus psychology's contribution to their selection, training, evaluation and motivation. Prerequisite: 12 credits of psychology or consent of the instructor.

Psy 303 Environmental Psychology (4) (S)

An examination of the effects of the social, physical and ecological features of the environment on human behavior. Topics include the effects of crowding, noise, architecture and urban design. Prerequisite: 12 credits of psychology or consent of instructor.

Psy 320 Social Psychology (4) (F)

Theories and research involving individual's reactions to others. Topics: social perception, attraction, social influence, aggression, social exchange. Prerequisite: 12 credits of psychology or consent of instructor.

Psy 321 Attitude Organization and Change (4) (W)

Investigates nature of attitudes, attitude formation and change. Various theoretical orientations, research, application. Includes research project. Prerequisite: Psy 320.

Psy 322 Topics in Social Interaction (4) (S)

In-depth coverage of selected topics in Social Psychology. Involves discussion and individual research projects. Emphasis on current issues. Prerequisite: Psy 320.

Psy 346 Principles of Behavior (4) (S)

Introduction to conditioning and related concepts; verbal learning and other cognitive processes; emphasis on application. Not intended for majors. Prerequisite: Psy 231 or equivalent.

Psy 351 Psychology of Intelligence (4) (F)

An overview of historical and contemporary theories of intelligence. Theories, research and applications are discussed. Prerequisite: 12 credits of psychology or the consent of instructor.

Psy 352 Psychological Measurement (4) (W)

An introduction to the theoretical aspects of psychological measurement covering such topics as reliability, validity, psychophysics and item analysis. Prerequisite: 12 credits of psychology or the consent of instructor.

Psy 353(g) Psychology and the Arts (4) (S)

An understanding of the relationship of the fundamental principles of psychology to the arts is developed from the formal beginning of psychology to the present. Prerequisite: Psy 113 or consent of instructor.

Psy 398 Advanced Independent Study for External Studies (1-4)

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 Adolescent Psychology (4) (W)

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

Psy 402(g) (3) (W)

Same as above; for graduate credit only.

Psy 403 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 403(g) (3) (S)

Same as above; for graduate credit only.

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 440 Psychology in the Secondary School (3)

A methods course for the preparation of teachers of psychology at the secondary level. Prerequisite: Consent of instructor.

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) (F)

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 interspecies 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 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 consent of instructor.

Psy 461(g) (3) (F)

Same as above; for graduate credit only.

Psy 463 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 consent of instructor.

Psy 463(g) (3) (W)

Same as above; for graduate credit only.

Psy 465 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 465(g) (3) (S)

Same as above; for graduate credit only.

Psy 467 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 467(g) Chemical Dependencies (3) (S)

Same as above; for graduate credit only.

Psy 469 Student Internship in Psychology (3-16)

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 Seminar in Psychology (4) (FWS)

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

Psy 481(g) (3) (FWS)

Same as above; for graduate credit only.

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

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

Psy 494(g) Independent Research (1-4)

Student assumes responsibility in the implementation of research related to interests of a faculty supervisor or in the area of their own choosing. Weekly meeting required. Prerequisite: Psy 232 or 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 and 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 Psycho-educational 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)

Theory, administration and interpretation of commonly used psychodiagnostic evaluation techniques as they apply to school-age populations. Prerequisite: Psy 502 and consent of instructor.

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

Advanced individual appraisal. Includes a case study approach to assessment. Emphasis on the interpretation and integration of test results into meaningful psychological reports. Prerequisites: 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 pre-school, elementary school or secondary school setting. A total of 100 clock hours. Prerequisite: Consent of instructor, and concurrent enrollment in Psy 500 and Psy 503.

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

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.

Psy 550 Advanced Psychological Testing: Personality (1-3) (F)

Study of the theoretical foundations, development, administration and interpretation of major tests of personality and emotional status for children and adolescents. 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: Consent of instructor and concurrent enrollment in Psy 560 or 572. May be repeated to a maximum of 3 credits; however, no grade will be earned until 3 credits are completed.

Psy 552 Individual and Group Intervention Techniques (1-3) (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 or 572 and consent of instructor. May be repeated to a maximum of 3 credits; however, no grade will be earned until 3 credits are completed.

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) (FWS)

Supervised field experience as a school psychology intern in a school district for 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. Prerequisites: Advanced standing in the school psychology program and consent of instructor.

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

Supervised school psychology experience in a setting providing clinical psychological services for 200 clock hours per quarter. Prerequisites: Concurrent enrollment in Psy 550 or 552 and consent of instructor.

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

Intended to train advanced school psychology students to administer various developmental scales to children birth to six years and explore various theories relevant to child development. Prerequisites: Advanced standing in 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 4 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 MS 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.

Recreation and Leisure Studies

A major in Recreation and Leisure Studies is not available at this time. The following courses are offered on a regular basis.

RECREATION COURSES

Rec 140 Camping and Outdoor Recreation (3) (S)

Provides a broad perspective of the aims, purposes and values of the program. Leadership training for counselors.

Rec 450 Field Work in Recreation (3) (FWS)

Involves practical experience opportunities in local programs. Prerequisite: Consent of instructor.

Rec 469 Internship (3-16) (FWS)

This course is designed to give students an opportunity to gain supervised clinical experiences working with state or local recreation agencies. Prerequisite: Consent of instructor.

Scandinavian Studies

Ken Smemo, *Coordinator*

SCANDINAVIAN STUDIES CURRICULA

The Scandinavian Studies program at Moorhead State University is an interdepartmental offering involving the departments of art, English, languages and history. Scandinavian Studies includes counseling and academic work in a cohesive program devoted to the languages, literature, history, culture and society of the Scandinavian peoples of northern Europe as well as their relationship to the American society. It attempts to meet the needs of: those interested in their own cultural heritage or that of a

great share of the inhabitants of the Upper Midwest; those wishing an interdisciplinary liberal arts augmentation to an elementary or secondary teaching major; those interested in Scandinavia to meet the area of interest requirement of the Liberal Arts Program; those contemplating careers in foreign service or international business; or those seeking some undergraduate preparation for work at the graduate level in Scandinavian studies at other American or European institutions.

Through an arrangement with the University of Oslo, MSU students may attend classes there for up to a full academic year, while earning on-campus credits. Sophomore standing and at least one year of college-level study of Norwegian language are minimum requirements for admission to the "Oslo Year."

An Individualized Major in Scandinavian Studies may be obtained upon application.

Minor in Scandinavian Studies B.A. Degree (36 credits)

Electives in Scandinavian Studies to complete minor:

- Art 439(g) Scandinavian Art (4)
- Engl 381/Scan 381(g) Older Literature of Scandinavia (4)
- Engl 382/Scan 382(g) Ibsen and Strindberg (4)
- Engl 383/Scan 383(g) Modern Scandinavian Novel (4)
- Hist 111 Modern Scandinavia in Historical Perspective (4)
- Hist 317(g) The Reformation (3)
- Hist 340(g) History of Scandinavia I-II (4 each)
- Hist 355(g) The Scandinavian Heritage in America (4)
- Hist 404(g) Seminar in European History—Scandinavia (4)
- LART 328 The Viking Age: Its History and Literature (4)
- Scan 100 Selected Emphasis in Scandinavian Language—Beginning Level (2-4)
- Scan 200 Selected Emphasis in Scandinavian Languages—Intermediate Level (2-4)
- Scan 231 Scandinavian Culture and Civilization (3)
- Scan 280 Special Topics in Scandinavian Literature and Culture/Civilization (2-4)
- Scan 325 The Novels of Knut Hamsun in Translation (3)
- Nor 201-202-203 Intermediate Norwegian I-II-III (12 credits)
- Nor 297 Independent Study in Norwegian—Intermediate Level (1-4; max. 8)
- Nor 397 Independent Study in Norwegian—Advanced Level I (1-4; max. 8)

It is recommended that students electing this minor also complete the History 101-102-103 Western Civilization I-II-III sequence in addition to the minor.

SCANDINAVIAN LANGUAGE AND LITERATURE COURSES

Scan 100 Selected Emphasis in Scandinavian Language—Beginning Level (2-4)

Introductory course focusing on specific linguistic objectives, acquisition of certain language skills; may be repeated when course objectives are different.

Nor 101-102-103 Beginning Norwegian I-II-III (4 each) (FWS)

Fundamentals of spoken and written Norwegian (Bokmal).

Nor 107-108 Beginning Norwegian A-B (6-6) (WS)

Accelerated acquisition of basic communicative skills in Norwegian. Minimum two hours weekly of language laboratory required. Preparatory for, though not applicable toward the minor program in Scandinavian Studies.

Scan 200 Selected Emphasis in Scandinavian Languages—Intermediate Level (2-4)

Specific linguistic objectives for students with at least two quarters of college-level Norwegian; repeatable when objectives differ.

Nor 201-202-203 Intermediate Norwegian I-II-III (4 each) (FWS)

Intermediate conversation and composition with selected readings of progressive difficulty. Prerequisite: Nor 101-102-103 or equivalent.

Scan 231 Scandinavian Culture and Civilization (3) (W)

Introduction to the cultural development of the Scandinavian peoples from prehistoric times to the present. Taught in English; no prerequisites.

Scan 280 Special Topics in Scandinavian Literature and Culture/Civilization (2-4)

In-depth study of selected topics pertaining to Scandinavian literature, culture or civilization. Taught in English. May be repeated when objectives differ.

Nor 297 Independent Study in Norwegian—Intermediate Level (1-4; max. 8)

Supervised reading in selected areas of Norwegian language, literature or related fields. Conferences with instructor; reports. Permission of program director required.

Scan 325 The Novels of Knut Hamsun in Translation (3)

In-depth study of selected novels of Knut Hamsun. The course is taught in English; however, the novels may be read either in English translation or the original Norwegian.

Scan 381(g) The Older Literature of Scandinavia (4)

Selections from the Eddas, tales and ballads in English translation. Same as Engl 381.

Scan 382(g) Ibsen and Strindberg (4)

Major and representative plays of Ibsen and Strindberg in English translation. Same as Engl 382.

Scan 383(g) The Modern Scandinavian Novel (4)

Masterpieces by the major Scandinavian novelists of the 20th Century. In English translation. Same as Engl 383.

Nor 397 Independent Study in Norwegian—Advance Level I (1-4; max. 8)

Supervised reading in selected areas of Norwegian language, literature or related fields. Conferences with instructor; reports. Permission of program director required.

Science

Students may obtain a B.S. (Teaching) degree in Biology-Life Science or in Physical Science. Upon completion of the requirements for one of these programs, the student will be licensed in Grades 7-12 by the Minnesota State Department of Education. See Biology for Life Science and Chemistry or Physics for Physical Science.

Descriptions of science courses which are not characteristically offered by a specific department are provided below.

SCIENCE COURSES

Sci 302 Analysis of Science (3)

The analysis of presumptions, structure and contributions of science.

Sci 340 Science in the Elementary School (2)

Objectives, methods, materials and evaluation.

Sci 350 Seminar: Science, Technology, and Society (2)

A seminar exploring the relationship of science and its applications to society. The question of the social responsibility of scientists—both collectively and individually—will be studied.

Sci 390(g) Special Methods in Science in the Elementary School (3)

Adapted to the special needs and experiences of those enrolled.

**Secondary Education and Foundations Department
Lommen 214, (218) 236-2148**

Chair: Richard Bowman

Faculty: Howard Freeberg, Director of Student Teaching Abroad; Joseph Thorman, Director of Student Teaching in Texas; Johnson Aflayan, Helene Anthony, Lawrence Anderson, Barbara Boseker, Andrea Boyea, Jack Neufeld

SECONDARY EDUCATION AND FOUNDATIONS CURRICULA

Professional education courses for all secondary teaching curricula are:

Ed 200 Career Explorations in Education (2)

ED 200L Lab (1)

Ed 213 Interpersonal Communications (3)

Ed 214 Human Growth and Development (3)

Ed 305 Educational Psychology (3)

Ed 307 Measurement and Evaluation (3)

Ed 390 Foundations of Education (3)

SpEd 220(g) Learners with Special Needs (3)

Substitutions for these courses must be approved by the Chair of Secondary Education and Foundations in a written memorandum filed with the Registrar.

Course requirements in each major are determined by the academic department; for example, art majors refer to Art Department.

All teacher education requirements must be fulfilled to complete a major. (See Education)

EDUCATION COURSES

Ed 100 Personal Career Planning (1)

Designed to assist students in seeking and defining career goals. Career positions are explored by class. Pass/Fail.

Ed 101 Assertiveness Training (2)

Designed to enable students to learn their interpersonal rights and responsibilities, to discriminate between assertive, aggressive and submissive behavior and acquire a set of assertive skills that, by definition, maintain the dignity of the parties involved.

Ed 102 Advanced Assertiveness Training (2)

This class examines advanced techniques and theories related to assertive behavior. Prerequisite: Ed 101.

Ed 103 Career Development and Career/Life Planning (2)

Designed to assist students with the career decision-making process.

Ed 104 Decision-making (2)

The purpose of this course is to enable the students to understand their own decision-making process and the elements of successful decision-making.

Ed 105 Martial/Premarital Enrichment (2)

This class is designed to enhance the communication process in a marital/premarital relationship.

Ed 106 Personal Growth Issues of Women and Men (2)

This class examines issues related to women's and men's self-concept identity, value and communication skills.

Ed 107 Topics in Personal Growth and Development (2)

This course is designed to be a special topics experience. Subjects selected on current topical trend, i.e., death and dying, divorce adjustment, human potential, etc.

Ed 108 Stress Management (2)

Study of the causes and effects of stress plus a survey of specific skills for reducing or preventing its negative effects. Application for university students will be emphasized.

Ed 142 College Reading Development (2)

Instruction in study skills. Practice use of study resources to improve vocabulary and reading.

Ed 189 Personal Development (2)

Exploration and work on personal development goals in small group, i.e., self-understanding, communication skills, values, goals, etc.

Ed 200 Career Explorations in Education (3) (FWS)

Introduction to current concepts/issues in professional education including introduction to educational professional periodicals. Practicum experience included for underclassmen. Lab: 20 hours teacher aiding required.

Ed 213 Interpersonal Communications (3) (FWS)

The "affective" course in Human Relations. Simulation, participation focus on nonverbal communication, conflict resolution, trust development, paraphrasing. Lab: 20 hours tutoring required for majors in secondary and special fields only.

Ed 214 Human Growth and Development (3) (FWS)

Study of stages and principles of human development and their educational implications. Theories from behavioristic, developmental, Gestalt, cognitive theorists. Prerequisite: Ed 200.

Ed 300(g) Audiovisual Materials and Methods (3)

Introduction to media education with emphasis upon the use of audiovisual media and technology in the classroom. With lab.

Ed 305 Educational Psychology (3) (FWS)

A systems approach to learning, learning environments, readiness, individual differences, student-teacher relationships. Prerequisites: Ed 200 and Ed 214 or concurrent with Ed 213, Ed 214, SpEd 220

Ed 307 Measurement and Evaluation: Secondary (3) (FWS)

Emphasizes assessment and evaluation of instruction with objective development as basis for current techniques. Normative/criterion reference testing principles and concepts. Prerequisites: Ed 213, Ed 214, Ed 305 or concurrent with 305, SpEd 220.

Ed 310 Basic Photography for Educators (3)

Introduction to still photography including panchromatic, ortho and color positive films with an emphasis on educational application.

Ed 320 Production of Audiovisual Materials (3)

Basic methods and techniques for the production of graphic, audio and photographic instructional media. With lab.

Ed 388(g) Cultural Pluralism (3) (FWS)

Social/economic backgrounds and lifestyles of culturally different students. Analysis of appropriate teaching strategies. Prerequisites: Ed 200 or SpEd 200 and Ed 305.

Ed 390 Foundations of Education (3) (FWS)

Historical, philosophical, social, and professional foundations of American education. Prerequisites: Ed 200 or SpEd 200, 213, 214, and 305. Should be taken prior to Ed 450-451S.

Ed 400 Independent Study in Education (1-4)

Extends study beyond regular course work. May substitute for courses in major with consent of advisor, instructor, and department chairperson. (Repeated up to 8 credits).

Ed 408(g) Foundations of Oppression (3) (F)

Nature, experiences and disadvantages of oppression; diagnosis and classification of structure of oppression. Prerequisite: Teaching experience.

Ed 409(g) Self and Oppression (3) (F)

Conflict-confrontation, interpersonal communications, understanding differences in value systems of others.

Ed 411(g) Introduction to Counseling (3) (F)

Basic concepts and principles of counseling.

Ed 417 Basic Counseling Skills (3) (S)

Basic skills in the one-to-one counseling interview. Improve interpersonal communication skills in listening and responding.

Ed 418(g) Sociology of Education (3)

(Same as Soc 418(g))

Ed 440 Social Studies in the Secondary School (3) (F)

Objectives, teaching strategies, curriculum materials, and evaluation at the secondary level (7-12). Prerequisites: near completion of social science major/minor and Ed 200, 213, 214 and 305.

Ed 450S Student Teaching: Secondary (8) (FWS)

Supervised student teaching experience in a secondary school (7-12). Prerequisites: Admission to Teacher Education, Ed 200, 213, 214, 305, 307, and SpEd 220, special methods course(s), and departmental approval. Applications required two quarters prior to the field experience.

Ed 451S Student Teaching: Secondary (16) (FWS)

Supervised student teaching experience in a secondary school (7-12). Prerequisites: Admission to Teacher Education, Ed 200, 213, 214, 305, 307, and SpEd 220, special methods course(s), and departmental approval. Applications required two quarters prior to the field experience.

Ed 455S Student Teaching (8-16) (FWS)

Student teaching experience to qualify for additional licensure or supplemental student teaching experience. Advisor and consent required.

Ed 469 Student Internship Program (3-16)

Opportunities for on-the-job experience. Appropriate for students with individualized majors. Prerequisites: Permission of chairperson, Junior/Senior status.

Ed 480(g) Educational Alternatives for Learning

Construction of both established and innovative educational programs. Prerequisites: Consent of instructor.

Ed 481(g) Issues in Education (1-3)

Seminar to examine current issues and trends in specific areas of education. Prerequisites: Consent of instructor.

Ed 491(g) Topics in the Socio-Cultural Foundations of Education (1-5)

In-depth examinations of historical, philosophical, and cultural aspects of educational theory and practice. Prerequisites: Junior/Senior or consent of instructor. (Same as EIEC 491).

Ed 492(g) Impact of Education on Women (3)

Exploring the literature on sex-role stereotyping in public education. (Same as EIEC 492).

Ed 493(g) Education for International Understanding (3)

Objectives, techniques, and materials suitable to develop and extend intercultural empathy. Study of educational ideas and practices from other countries. (Same as EIEC 493).

Ed 495(g) Comparative Education (3)

Foreign education systems, international understanding through education. Introduction to UN education agencies. (Same as EIEC 495(g)).

Ed 496(g) Study Tour in Comparative and International Education (6)

Field study in selected countries through conferences with educators, schools, universities, ministry visitation and conferences. Open to non-majors.

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 504 The School and Society (3)

History and development of social structures in America; relationship between social structures and the school. (Same as EIEC 504).

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

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

Ed 506-509 Adult Education Sequence (3)

For administrators, teachers, graduate students in adult education. Incorporates nature of learner, special curricular aspects, educational theory and sociological implications.

Ed 510 Philosophy of Education (3)

Major philosophical concepts and principles as they apply to education from Plato to the present.

Ed 512 Study of the Individual (3)

Case study methods, laboratory experience and practicum where applicable.

Ed 530 Intro to Education Administration (3) (F)

Theory, principles, issues and problems involved in the execution of the school management function. (Same as EIEC 530).

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. (Same as EIEC 531).

Ed 532 Strategies for Solving School Organizational Problems (3) (W)

Examination of procedures and theories which increase skills in problem solving in school organizations. Prerequisite or Concurrent: Ed 530. (Same as EIEC 532).

Ed 533 Computer Utilization in Classrooms (3) (F)

Exploration of computer equipment, operation, means of communication with computers, instructional use and impact of computers in society. Prerequisite: Ed 530. (Same as EIEC 533).

Ed 534 School Finance (3) (F)

Study of local, state and federal revenue systems to support public education. Tax theory, budgetry and accounting procedures. Prerequisites: Ed 530 or concurrent with Ed 530. (Same as EIEC 534).

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. (Same as EIEC 535).

Ed 536 Supervisory Theories (3)

A study of management models and techniques for supervisors to systematically improve instruction in a variety of organizational climates. Prerequisites: Ed 530 and Ed 535. (Same as EIEC 536).

Ed 537 Curriculum Theory and Principles (3) (W)

Examination of principles, contemporary theories and change process alternatives as they impact on the school education program. (Same as EIEC 537).

Ed 538 Secondary School Curriculum (3) (W)

History, development, and evaluation of curricular patterns in the secondary schools. Analysis of current curricular practice and trends.

Ed 539 Administration of the Secondary School (3) (W)

Intended for those preparing to become school administrators. Investigates all phases of the administrator's duties and responsibilities for educational leadership. Prerequisites or concurrent: Ed 530 and 538.

Ed 544 Middle School/Junior High School Administration (3)

Organization and administration of educational programs for young adolescents. Prerequisites: Ed 530 and 538 or 542. (Same as EIEC 544).

Ed 548 Foundations of Counseling (3) (F)

Introduction to the profession of counseling. Emphasis on introductory concepts in the profession including developmental theories; aspects of counseling role, relationship and theories; professional organizations and code of ethics. Basic professional skills, such as word processing, library research, development of APA writing style are included.

Ed 549 Counseling Skills I (3) (F)

Development of attending skills in interviewing. Emphasis is placed on students becoming able to get into client's world and label client's feelings accurately. Introduction to several approaches to helping others including behavioral insight, micro counseling, and decision-making.

Ed 550 Counseling Theories (3) (W)

Students will study and examine current counseling principles and theories in order to utilize counselor techniques associated with those theories. Prerequisites: 411(g) or consent of instructor.

Ed 551 Counseling Skills II (3) (W)

Course is designed to assist students in examining and applying counseling techniques appropriate for crisis, facilitative, preventive and developmental counseling. Prerequisites: Ed 549, 550, or consent of instructor.

Ed 552 Group Counseling (3) (S)

Group dynamics in theory and practice. Prerequisites: Ed 550, Psych 476, or consent of instructor.

Ed 552L Group Counseling Laboratory (1-3) (S)

Participation in groups provides opportunities to practice and experience theory and concepts learned in Ed 552. Must be taken concurrently with Ed 552.

Ed 553 Individual Appraisal (3) (F)

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

Ed 554 Career Development (3) (W)

Theories of career development, 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.

Ed 556 Special Problems for Counselors (3)

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

Ed 558 Counseling the Gifted (3)

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

Ed 563 Human Resources Development (4) (W)

Exploration of the training and development needs of employees and volunteers. Covers ways adults learn, motivation of volunteers, interviewing skills and the needs analysis, design, implementation, evaluation, administration and cost effectiveness of training programs.

Ed 564 Theory and Process of Consultation (3)

Exploration of theory and process of various consultation models, consultant roles, research and evaluation across community, mental health and school settings. (Same as SpEd 564).

Ed 565 Counseling Skills III (3) (S)

Designed to provide students with skills for conducting growth-producing interviews or one-to-one counseling sessions with client. Emphasis is on skillfully entering the client's world and facilitating positive change. Prerequisite: Ed 551.

Ed 570 Seminar, Current Trends in Counseling (1-3) (S)

Emphasizes current issues and developments in the broad field of counseling and human development-study of current periodic literature, federal and state legislation, professional practices and leading research. Prerequisite: After completion of core courses or after 36 credits and with instructor approval. May be repeated.

Ed 571 Professional Contribution Seminar (1) (FWS)

Deigned to assist advanced level Counseling and Human Development graduate students in making a professional contribution to the field. Students define an area of investigation, develop a plan of implementation and means of presenting the results of the investigation. Prerequisites: Ed 500, 502, 503 and 30 course credits in Counseling and Human Development (and by permission of instructor.)

Ed 581 Legal Aspects of Education (3) (F)

Study of legal authority of the public school; legal problems facing school personnel. Prerequisites: Ed 531 and Master's degree or equivalent. (Same as EIEC 581).

Ed 582 School Management and Decision-making (3) (W)

Examination of needs assessment, goal setting, planning and evaluation systems, management systems, management by objective plans and decision-making procedures. Prerequisites: Ed 532 and Master's degree. (Same as EIEC 582).

Ed 583 Computer Data Management and Decision-making (3)

Effective computer applications, the computer as a decision-making planning tool, opportunities and problems presented by a computer. Prerequisites: Ed 533 and Master's degree. (Same as EIEC 583).

Ed 584 School Personnel Administration (3) (W)

Study of personnel administration. Examination of the purposes, policies, plans, procedures and processes of personnel administration. Prerequisites: Ed 536 and Master's degree. (Same as EIEC 584).

Ed 586 School Plant Planning and Maintenance (3) (S)

Principles in planning, construction and maintenance of school buildings, visitation and appraisal of buildings. Prerequisites: Ed 539 or Ed 543 and Master's degree. (Same as EIEC 586).

Ed 588 School Business Management (3) (W)

School business administration of insurance, transportation, food services, purchasing, inventory control, budgeting procedures, state and federal accounting and personnel. Prerequisites: Ed 534 and Master's degree. (Same as EIEC 588).

Ed 589 School Community Relations (3) (F)

Purposes, organization, agencies and criteria of good school-community relationships; knowledge and techniques of public relations. Prerequisites: Ed 539 or 543 and Master's degree. (Same as EIEC 589).

Ed 591 Practicum in School Counseling (1-6)
(FWS)

A practical field experience in counseling and guidance for majors. Individualized for each student. Prerequisite: Consent of instructor.

Ed 594 Practicum in Administration (1-9) (FWS)

Supervised field experiences in various areas in education administration. Seminar and projects required; Master's Degree and courses in related areas required.

Ed 595 Special Problems (1-3)

Individual exploration of topical area through field placement, reading or research.

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

Independent research for advanced graduate students. Repeated to a maximum of 6 credits. Prerequisites: Consent of instructor and advisor.

Ed 598 Seminar in School Administration and Supervision (1-6)

Special topics seminars for practicing or potential administrators and supervisors. Consent of instructor. May be repeated.

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.

Secretarial

See Business Education for Curricula.

Social Studies
Major for Secondary Education

Program Requirements (98 credits)

Distribution Requirement (44 credits)

- A. Two specified courses in the disciplines of Economics and Political Science; one designated course in each of the following disciplines: Anthropology, Geography, Psychology and Sociology.
- B. Three courses in History: U.S. History I, II, III.

Primary Concentration (36 credits)

Thirty-six credits in one principal field of specialization chosen from any of the disciplines listed in I above (except Geography). At least half of these courses must be at the 300 or 400 level.

Secondary Concentration (15 credits)

Fifteen additional credits in another social science discipline. At least two courses must be at the 200 level or above.

Methods Course (3 credits)

Ed 440 Social Studies in the Secondary School

Specific Course Requirements

Each social science department has determined which courses it deems most appropriate for the major. Students are not free to substitute courses for those designated, nor are other departments. Any changes involving required courses must be arranged with the department responsible for such courses. If a substitution is approved, it should be put in writing, signed by the department spokesman and included in the student's file.

Distribution Requirements

A. 1. Anthropology

Anthropology 110 Culture and Symbols (4)

2. Economics

Economics 202 Principles I (4) Economics 204 Principles II (4)

3. Geography

Geography 310 U.S. and Canada (4)

4. Political Science (Two of the following:)

Pol 110 Political Science as a Discipline (4) Pol 120 National Government (4)
Pol 160 International Relations (4)

5. Psychology

Psy 113 General Psychology (4)

6. Sociology

Soc 110 Introduction to Sociology (4)

B. Three courses in History:

U.S. History I, II, III

Primary Concentrations

Anthropology - see department for program

Economics

Econ 206 Principles of Economics III (4) Econ 290 Economic Literature and Methodology (3)
Econ 302 Intermediate Microeconomic Theory (4)
Econ 304 Intermediate Macroeconomic Theory (4)
Econ 317 History of Economic Thought (4)
Econ 411 Economic History of the U.S. (4)
Approved Electives in Economics (13)
Total 36 credits

History

1. Either History 102 and 103: Western Civilization II and III, or History 105 and 106: World History II and III.(8)
2. Electives at the 200 level or above (half must be 300 or 400 level courses), distributed in the following areas:
 - a. Europe—2 courses
 - b. United States or Canada—3 courses
 - c. Two of these areas:
Africa, Asia, Latin America, Modern Middle East—2 courses
3. One of the electives must be a seminar History 402, 403, 404 or 405 (which can apply toward the requirements in part 2 above)
Total 36 credits minimum

Political Science

1. One of these: Pol 110 or 120 (4)— which was not chosen for the distribution requirement.
2. Pol 221 State and Local Government (4)
3. Electives in upper division courses (to be chosen in consultation with Political Science faculty) (28)
Total 36 credits

Psychology - see department for program

Sociology

1. Soc 205 Social Psychology (3-4)
Soc 211 Social Theory (3-4)
Soc 310 Dominant/Subordinate Group Relations (3-4)
Soc 411 Current Sociology (3-4)
Soc 412 Complex Organization (3-4)
19 credits minimum
2. Electives, at least half of which must be at the 300 level or above. Highly recommended is Soc 418 Sociology of Education (17 credits minimum)
Total 36 credits

Secondary Concentrations

Anthropology - see department for program

Economics

Econ 206 Principles of Economics III (4) Econ 290
Economic Literature and Methodology (3)
Approved electives (8) Total 15 credits

Geography - see department for program

History

1. Either Hist 102 and 103 Western Civilization II and III, or Hist 105 and 106 World History II and III (8)
2. Electives at the 200 level or above to be distributed in these areas:
 - a. Europe or North America (4)
 - b. Africa, Asia, Latin America Modern Middle East (3)Total 15 credits

Political Science

1. Pol 221 State and Local Government (4)
2. Electives in upper division courses (11) (to be chosen in consultation with Political Science faculty)
Total 15 credits

Psychology - see department for program

Sociology

1. Soc 205 Social Psychology (3-4)
2. Soc 211 Sociological Theory (3-4)
3. Electives (Soc 418 Sociology of Education-recommended) (7-9)
Total 15 credits

Social Work Department

Lommen 83, (218) 236-2632

Chair: Gary L. Jacobson

Faculty: Richard A. DuBord, Julius Harrington, Sandra C. Robin, James A. Svobodny, Mary Lou Ziter

The Moorhead State Social Work Program is accredited by the Council on Social Work Education. The principle educational objective of the social work major is to prepare students for beginning professional social work practice. The Bachelor of Social Work (BSW) degree is awarded upon completion of all university and major requirements both within the department and in related areas.

Admission to the Major

Students who wish to major in social work must complete a formal admissions process, approved by the faculty advisor and submitted to the department the quarter they are enrolled in SW 255—Human Behavior and the Social Environment (exceptions may be made for transfer students). Admission policy and procedure statements are available in the department. See faculty advisor. Current major requirements are available in the department. You are encouraged to contact the departmental chair for clarification.

SOCIAL WORK CURRICULA

Major in Social Work, B.S.W. Degree

Requirements in the Department of Social Work (57 credits)

- SW 101 Orientation to Social Work (1)
- SW 250 Introduction to Social Welfare (4)
- SW 255 Human Behavior and the Social Environment (4)

(Formal Admissions process for admission to the major occurs at this point in the curriculum. See faculty advisor.)

- SW 360 Research in Social Work (4)
- SW 401g Social Policy (4)
- SW 421 Generalist Practice: Individuals (4)
- SW 422g Generalist Practice: Groups (4)

SW 423g Generalist Practice: Families (4)
SW 424g Generalist Practice: Communities and Organizations (4)
SW 469 Internship (16)
SW 470 Senior Seminar (4)
Social Work Electives (4 credits)

Social Work Electives

SW 105 Crisis Intervention (1)
SW 308 Aging in America (4)
SW 402g Child Welfare Services (4)
SW 403g Health Care Issues and Services (4)
SW 404g Rural Social Work (4)
SW 405g Human Behavior & the Social Environment Through Literature (4)
SW 409g Social Policies & Services for the Elderly (4)
SW 411g Chemical Dependency (4)
SW 425g Topical Seminar in Social Welfare (1-9)
(May be repeated to 9 credits as a variety of social welfare problems are investigated.)
SW 431g Readings in Social Welfare (2-4)
SW 432g Independent Study (2-4)
SW 499g Social Work Workshops (1-4)
(Social Work workshops are available and may be used to meet graduation requirements. They may be used to meet major elective requirements only if they grant two credits or more.)

Additional credits for social work majors under SW 369—Field Experience I or SW 479—Field Experience II and SW 499g—Social Work Workshops are available to meet graduation requirements but not as electives in the major with the exception of workshops offered for two credits or more.

Requirements in Related Fields (48 credits)

Biology 104 Human Biology (4)
Economics 100 The American Economy (4)
History 241 History of Social Welfare (4)
Human Diversity Courses (8)

The human diversity requirement is an opportunity for students to acquire knowledge about the ways in which people are different because of biological, social and cultural characteristics.

At least four credits must be from Multicultural Studies. See Departmental requirement worksheets for other options.

Political Science 120 (4)
and Pol 221 or 240 (4)
Psychology 113 and 115 (8)
(General and Developmental)
Sociology 110 and 205 (8)
Intro and Social Psych
Sociology 350 (4)
(Intro to Research Methods)

Minor in Social Welfare

Note: A minor in Social Welfare is not accepted by the Council on Social Work Education as adequate preparation for entry level professional social work practice; neither does a minor in social welfare qualify one to take state licensure examinations. This minor is offered solely for the student's learning in the area of social services. Required Courses in the Department of Social Work (21 credits)

SW 101 Orientation to Social Work (1)
SW 250 Introduction to Social Welfare (4)
SW 255 Human Behavior and the Social Environment (4)

Social Work electives: 12 credits—

Social work majors will be given priority for class enrollment. Required courses for a social work major may be taken as electives for a social welfare minor. (An internship in a related major does not meet the elective requirements.)

Required Courses in Related Areas

20 credits from among the following disciplines other than any course used in meeting the requirements of the major: Anthropology, Child Development/Family Relations, Criminal Justice, Early Childhood Education, Economics, Gerontology, Health, History, Multicultural Studies, Political Science, Psychology, Recreation, Sociology, Special Education.

In order to obtain recognition for a minor in social welfare the student must have his/her program accepted by the Social Work Department no later than the second quarter of his/her junior year.

Minor in Gerontology

This minor may be of interest to Social Work majors. Minor requirements are listed under Sociology in this Bulletin.

Minnesota School Social Worker I Licensure

Persons wishing to be licensed as a School Social Worker I in Minnesota must satisfy BSW degree requirements which will also include the following:

1. SPED 320—Educational Services for Exceptional Individuals
2. SW 411—Chemical Dependency (or equivalent course)
3. Pre-Internship experience (30 hours) in a school setting.
4. SW 469—Internship in a school setting under supervision of a licensed School Social Worker.
5. Verification of satisfying Minnesota Human Relation Requirements.
(Completion of BSW requirements will satisfy MSU requirements.)
See Social Work Department Chair for details and process required.

SOCIAL WORK COURSES

SW 101 Orientation to Social Work (1) (FWS)

A course for students interested in gaining a better understanding of the field of social work including career exploration.

SW 105 Crisis Intervention Experience (1) (FWS)

Credit for successful completion of volunteer training in selected community agencies and for completion of an additional 20 hours of volunteer work in the same agency. Contact the department for details.

SW 250 Introduction to Social Welfare (4) (FWS)

Overview of social welfare and the profession and practice of social work. Content includes: social welfare policy and institution, generalist social work practice and the problem solving model. Prerequisites: Soc 110, Psy 113, Pol 120, Hist 241, SW 101 or consent of instructor. (SW 101 and Hist 241 may be taken as co-requisites with advisor's approval.)

SW 255 Human Behavior and the Social Environment (4) (FWS)

Theories and analysis of individuals, families, groups, communities and society as interacting human systems. Prerequisite: SW 250, Soc 205, Psy 115, Biol 104, 4 credits in Multicultural Studies or consent of instructor. (Multicultural Studies may be taken as co-requisite with advisor's approval.)

SW 308 Aging in America (4) (F)

Mutual influences of society and the aging process. (See Soc 308.) Prerequisite: Soc 110 or consent of instructor.

SW 360 Research Methods in Social Work (4) (FWS)

The study of research methods (designs) and processes including assessing problems, analyzing and presenting data, and monitoring and evaluating intervention and services in social work practice. Prerequisite: SW 250 and Soc 350.

SW 369 Field Experience I (4-8) (fws)

A supplemental field learning experience to gain knowledge and understanding of basic social service intervention. Four credits require 10 hours per week in an approved community social service agency to a maximum of 8 credits for 20 hours per week. (Advance planning required) Prerequisite: SW 255 and consent.

SW 401(g) Social Policy (4) (FWS)

To develop knowledge and understanding of professional ethics, substantive policy, the policy process, political and economic perspectives and beginning skill analyzing social policy. Prerequisite: SW 255, Econ 100, Pol Sci 221 or 240 and consent of instructor.

SW 402(g) Child Welfare Services (4)

Problems in the area of child welfare: prevention, treatment and rehabilitation. Effectiveness of existing programs and possible change. Prerequisite: SW 250 or consent of instructor.

SW 403(g) Health Care Issues and Services (4)

Social work roles within the total health delivery system: cost, NHI, prevention, chronic illness, terminal care and the psychosocial aspects of illness. Prerequisite: SW 250 or consent of instructor.

SW 404(g) Rural Social Work (4)

Social change in rural societies: problems, needs, programs and role of social workers in rural United States with emphasis on Upper Great Plains region. Prerequisite: SW 250 or consent of instructor.

SW 405(g) Human Behavior and the Social Environment Through Literature (4)

Human behavior, social problems, social relationships and environment as seen in classic and contemporary fiction and drama. Prerequisite: SW 250 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 308 or consent of instructor.

SW 411(g) Chemical Dependency (4)

Exploration of chemical use, abuse, and addiction, with emphasis on alcohol as the drug of choice. Prevention, intervention, special problems of women, youth, elderly, and minority populations examined. Prerequisite: SW 250 or consent of instructor.

SW 421 Generalist Practice: Individuals (4) (FWS)

Generalist social work practice utilizing the problem-solving model with focus on the knowledge, values and skills for working with individuals. Prerequisite: SW 255, SW 360 and consent of instructor. (SW 424 and SW 360 may be taken as co-requisite with advisor's approval.)

SW 422(g) Generalist Practice: Groups (4) (FWS)

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with groups. Prerequisite: SW 421 and consent of instructor.

SW 423(g) Generalist Practice: Families (4)
(FWS)

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with families. Prerequisite: SW 421 and consent of instructor.

SW 424(g) Generalist Practice: Communities and Organizations (4) (FWS)

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with organizations and communities. Prerequisite: SW 421 and consent of instructor. (SW 421 may be taken as co-requisite with advisor's approval.)

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 9 credits)

SW 431(g) Readings in Social Welfare (2-4)
(fws)

Course designed for students interested in reading in-depth in selected areas of social work under faculty supervision. Credits determined by the extent and depth of the readings. Prerequisites: SW 255 and consent of instructor.

SW 432(g) Independent Study (2-4) (fws)

Individual study, project, or research of special interest. Repeatable to 8 credits but only 4 credits may apply to the social work elective requirements for the major. Prerequisites: SW 360 and consent of instructor.

SW 469 Internship (16) (FWS)

Placement in the field of practice under agency and departmental supervision. Prerequisites: SW 360, SW 401, SW 421, SW 422, SW 423, SW 424, a GPA of 2.3, volunteer experience of 60 hours and consent of instructor. Application must be made at least two quarters prior to internship.

SW 470 Senior Seminar (4) (FWS)

Seminar following internship to promote integration of academic and field learning. Focus on professional and ethical issues. Prerequisite: SW 469 and consent of instructor.

SW 475 Area Study in Human Services (1-8)

Specifically for External Studies students to fulfill the requirements for the area study in human services. May be repeated up to 16 credits. Prerequisite: Consent of three instructors.

SW 479 Field Experience II (4-15) (fws)

A supplemental field learning experience used to enhance knowledge and skills acquired in SW 469 Internship. Prerequisites: SW 469 and consent of instructor (Advanced planning required)

SW 499(g) Social Work Workshops (1-4)

Workshops in the Department of Social Work to meet specific needs of students and agency personnel in the community.

Sociology-Anthropology Department
Lommen 102, (218) 236-2045

Chair: Michael Hughey

Faculty: Anne Brunton, Joel Charon, Nancy Gilliland, Mark Hansel, Ray Kawaguchi, Michael Michlovic, David Olday, Joel Powell, Lynn Schepartz, Poopak Taati

SOCIOLOGY-ANTHROPOLOGY CURRICULA
Major in Sociology B.A. Degree

The sociology major offers a student a broad liberal arts education. Students may use a degree in this major to pursue graduate study. However, those students who have career plans after graduation may consider developing a concentration in areas such as family, deviance/criminology, social research and health medicine. In either case, to plan one's course of study, regular visits with one's advisor are strongly recommended.

Requirements for the Major: Students majoring in sociology will take all classes listed under Foundations of Sociology. Students may take classes from any or all of the remaining categories to total 68 credits for the major.

Foundations of Sociology

- Soc 110 Intro to Sociology (4)
- Soc 205 Social Psychology (4)
- Soc 111 Sociological Theory (4)
- Soc 310 Dominant/Subordinate Group Relations (4)
- Soc 350 Research Methods I (4)
- Soc 351 Research Methods II (4)
- Sox 411 Issues in Sociology (4)
- Soc 412 Complex Organizations (4)

Social and Cultural Process

- Soc 111 Social Problems (4)
- Soc 212 Deviance
- Soc 215 Population
- Soc 219 Sociology of Sexual Behavior
- Soc 300 Criminology
- Soc 301 Delinquent Behavior
- Soc 322 Urban Sociology
- Soc 323 Community
- Soc 333 Sociology of Gender
- Soc 335 Sociology of Women and Medicine

Soc 355 Society & Ecosystem
Soc 409 Social Policies and Services for the Elderly
Soc 416 Violence in the Family
Soc 425 Topics Seminar

Social and Institutional Structure

Soc 235 Sociology of Health and Medicine
Soc 303 Penology and Corrections
Soc 307 Sociology of the Criminal Court
Soc 308 Introduction to Gerontology
Soc 309 Law and Society
Soc 311 Sociology of Law Enforcement
Soc 314 White Collar Crime
Soc 320 Sociology of the Family
Soc 330 Sociology of Religion
Soc 404 Social Power
Soc 405 Probation and Parole
Soc 410 Sociology of Education
Soc 420 Trends in American Society
Soc 449 Topics in Social Stratification

Methods of Social and Cultural Analysis

Soc 353 Qualitative Sociology
Soc 452 Topics in Advanced Research Techniques
Soc 461 Readings in Sociology
Soc 469 Internship

Language Requirement

The department has no foreign language requirement for sociology majors applying for the Bachelor of Arts degree, but those planning graduate work in sociology are urged to take a suitable foreign language at college level.

Major in Sociology Social Studies (Teaching)

Only the approved Social Studies major can be accepted for secondary teaching certification. See Social Studies.

Major in Anthropology B.A. Degree

Major Course Requirements (59 credits)

Anth 110 Culture/Symbols (4)
Anth 111 Human Evolution/Prehistory (4)
* Any two of the following area courses (8):
** Anth 210 Minnesota Prehistoric People
Anth 215 Indians of South America
Anth 220 Indians of Middle America
Anth 225 Indians of North America
Anth 230 Cultures of Africa
Anth 235 Ethnology of Selected Areas
One of the following (4):
Anth 305 Primate Behavior and Evolution
Anth 310 Human Evolution (4)
One of the following (4):
Anth 216 Prehistoric Culture (4)
Anth 217 Social Evolution (4)
Anth 315 North American Archeology
One of the following (4):
Anth 370 Anthropological Linguistics (4)
Anth 375 Language in Culture (4)
Anth 400 Development of Anthropological Theory (4)
Anth 421,422,423 Senior Project (9)

Electives in Anthropology and Sociology (14—including a maximum of six credits in sociology)

* No prerequisite required

** See coordinator about possible course substitutes in these areas from the curriculum at North Dakota State University.

Recommended Electives

Majors are expected to study in as many fields as possible, particularly in the social and natural sciences. Further, it is highly recommended that the methods of social research course offered in the Sociology Department be included in the program.

Major in Anthropology-Social Studies (Teaching)

Only the approved Social Studies major can be accepted for secondary teaching certification. See Social Studies.

Criminal Justice Major B.A. Degree (68 credits)

Criminal Justice majors receive a broad overview of the structure of the criminal justice system and an in-depth analysis of at least one of its components. At least three courses must be on a single component of the criminal justice system. The choice of component for close study is the student's and may be in one of several areas (for example, law enforcement, pre-law, the courts, correctional counseling, criminal justice planning). All students receive a broad analysis of criminal law and of some relationships between law and society within the framework of a program which is grounded in a social or behavioral science of the student's choice.

Major requirements in Criminal Justice (16 credits)

CrJs 200 Introduction to Criminal Justice (4)
CrJs 201 Criminal Law (4)
CrJs 309 Law and Society (4)
CrJs 400 Seminar in Criminal Justice (4)

Requirements in Related Fields (52 credits)

Concentration in one of the following areas: Political Science, Psychology, Social Work, Sociology (28)
Two courses in each of two additional areas to be chosen from the following fields: Anthropology, Economics, History, Political Science, Psychology, Social Work, Sociology (16)

These must be fields other than the concentration.

Two courses from the following list. One course must be in each of two cultural areas (8):

MCS 101 Afro-American Experience
MCS 102 Contemporary American Indian
MCS 103 The Contemporary Chicano
MCS 202 American Indian Culture
MCS 203 Chicano Culture
MCS 211 Contemporary Afro-American Community
Anth 225 North American Indians

A tool requirement consistent with academic interests and/or career goals (e.g., a modern foreign language, research methodology and statistics, computer language). The flexibility of this major makes careful planning

important and students should prepare a complete plan of study at least four quarters prior to their anticipated date of graduation. At least 36 credits of the 68-credit major must be at the 300 and 400 level. Each student's major must evidence programmatic unity. At least three courses must focus upon a single area of the criminal justice system. These need not be from the same discipline.

Minor in Sociology (36 credits)

Soc 110 Intro to Sociology (4)
Soc 111 Intro to Social Problems (4)
Soc 211 Sociological Theory (3)
Soc 310 Majority-Minority Relations (3)
Soc 350 Methods of Social Research (4)
Electives in Sociology (at least 16 credits)

Minor in Anthropology (40 credits)

Anth 110 Culture/Symbols (4)
Anth 111 Human Evolution/Prehistory (4)*
One of the following (4):**
Anth 210 Minnesota Prehistoric People
Anth 215 Indians of South America
Anth 220 Indians of Middle America
Anth 225 Indians of North America
Anth 230 Cultures of Africa
Anth 235 Ethnology of Selected Areas
One of the following (4):**
Anth 305 Primate Behavior and Evolution
Anth 310 Human Evolution
One of the following (4):**
Anth 216 Prehistoric Culture
Anth 217 Social Evolution
Anth 315 North American Archaeology
One of the following (4):**
Anth 370 Anthropological Linguistics
Anth 375 Language in Culture
Electives in Anthropology (at least 20)
* No prerequisite required.
** See coordinator about possible course substitutes in these areas from the curriculum at North Dakota State University.

Minor in Gerontology (32 credits)

Requirements (20 credits)
Soc/Sw 308 Introduction to Gerontology (4)
Psy 403 Adulthood and Aging (4)
Health 202 Health Aspects of Aging (4)
Anth 302 Cultural Aspects of Aging (4)
SW 409 Social Policies and Services for the Elderly(4)
Electives (12 credits)
Phil 211 Morals and Medicine (4)
CDFS 461 The Elderly Consumer (NDSU) (4)
CDFS 494 Aging and the Family (NDSU) (3)
Soc 441 Sociology of Death (NDSU) (4)
SW 387 Mental Health Care of the Aging (CC) 2
SW 388 Social Service Programming (CC) 2
SW 411 Chemical Dependency (4)
SW 404 Rural Social Work (4)

SW 440 Field Experience in aging (4)
Biol 104 Human Biology,
Biol 236 Introduction to Microbiology or
Biology 241 Human Genetics (4)
Soc 235 Sociology of Health and Medicine,
Hlth 326 Epidemiology or Soc 442 Sociology of Chronic
Illness and Disability (NDSU) (4)

SOCIOLOGY COURSES

Soc 110 Introduction to Sociology (4) (Fws)

Introduces the sociological approach to understanding the structure and interconnectedness of society. Focus is on socialization, institutions and social change.

Soc 111 Social Problems (4) (W)

Examines such problems as racism, sexism, inequality, environmental issues and other problems. Prerequisite: Soc 110.

Soc 200 Health and Culture (4)

Introduction to health related disciplines. Focuses on interrelationships among behavior, beliefs and health. (See Anth 200)

Soc 205 Social Psychology (4) (Fws)

Stresses the social nature of human beings and examines the importance of interaction, society, culture and symbols to the development of the human self. Prerequisite: Soc 110 or Psy 113.

Soc 211 Sociological Theory (3-4) (Fs)

Examines the theoretical arguments of Marx, Weber and Durkheim. Other theorists are examined as time allows. Prerequisite: Soc 110.

Soc 212 Social Deviance (4) (S)

A survey of conceptions of deviance. Special attention may be paid to the role of relevant professionals in the creation and control of deviance. Prerequisite: Soc 110.

Soc 215 Population (3-4)

Social and cultural aspects of national and international population change. Prerequisite: Soc 110.

Soc 219 Sociology of Sexual Behavior (3-4)

Examines sociological and social psychological perspectives and research of human sexual behavior. Changes occurring in sexual beliefs and practices in American society and reasons for those changes are examined in detail. Topics include childhood sexual behavior, adolescent sexual behavior, sex and the process of mate selection, marital sex, extramarital sex, homosexuality, prostitution, pornography, and other forms of sexual variation. Prerequisite: Soc 110.

Soc 220 Courtship and Marriage (3-4) (Fs)

Focus is on theoretical issues and research findings from sociology of the family. Dating and mate selection, sex roles, marital interaction, alternatives to marriage, and marital dissolution are some of the topics covered.

Prerequisite: Soc 110.

Soc 235 Sociology of Health and Medicine (3-4) (F)

An overview of medical sociology with emphasis on the macro level: e.g., political economy of health, institutional structures and professionalism. Prerequisite: Soc 110.

Soc 300 Criminology (3-4) (Fws)

Examines some of the following: the nature of crime in America, crime statistics, types of crime, crime causation, the process of criminal justice, prisons and corrections.

Prerequisite: Soc 110 and 112 or consent of instructor.

Soc 301 Delinquent Behavior (3-4) (S)

Examines some of the following: definitions of key concepts, magnitudes of various types of delinquency in the United States and in some other countries, delinquency causation, societal reaction to delinquency.

Prerequisites: Soc 110 or 112 or consent of instructor.

Soc 303 Penology/Corrections (3-4)

Examines some of the following: the definitions of key concepts; the history and rationale of punishment, institutional control, and corrections in the United States and other countries; the development of penal and correctional systems in the U.S.; the inmate relation to such systems; the comparison of penal systems at home and abroad; the reform toward control and rehabilitation in the nation and in Minnesota; recommendations about the future. Prerequisites: Soc 110 and 112 or consent of instructor.

Soc 307 Sociology of the Criminal Court (3-4) (W or S)

Analyzes the criminal court as an organization; the prosecutor, the defense attorney and judges as a "work group" with pragmatic goals and concomitant working arrangements; and plea negotiations as the ordinary work technique. Prerequisite: Soc 110 or consent of instructor.

Soc 308 Introduction to Gerontology (3-4) (F)

An interdisciplinary approach to the study of aging. Examines the age structure of societies and age-related social policy as well as individual aging.

Soc 309 Law and Society (3-4) (Fs)

Examines law as a politically legitimate form of social control which is intimately related to major social structures and to configurations of social power. Prerequisites: Soc 110 or CJ 220 or consent of instructor.

(See CJ 309)

Soc 310 Dominant/Subordinate Group Relations (3-4) (Fs)

Examines some of the theories and patterns of dominate-subordinate group relations, often using the histories of specific groups as examples. Specific topics may include race and ethnic contacts; prejudice and discrimination; stereotyping; structures of domination and subordination; ideological justifications for group inequality; etc.

Prerequisite: Soc 110 or consent of instructor.

Soc 311 Sociology of Law Enforcement (3-4)(F)

Examines the emergence of municipal policing as a unique social bureaucracy in England and later the United States. Specific issues, such as police discretion, corruption, and police community relations, are examined in light of the structure of policing.

Soc 314 White-Collar Crime (3-4)

Presents sociological perspectives on elite deviance and nonviolent crimes committed for profit by high status individuals. Employee, corporate and government crimes are examined. Prerequisite: Soc 110 or consent of instructor.

Soc 320 Sociology of the Family (3-4)

The social-psychological and institutional sources of family conflict and cohesion. Prerequisite: Soc 110 and 111 or consent of instructor.

Soc 322 Urban Sociology (3-4)

Analysis of social organization, processes and action typical of urban life. Prerequisite: Soc 110 and 111 or consent of instructor.

Soc 323 Sociology of Community (3-4)

Examines the structure of communities in both traditional and "modern industrial" settings. Focuses on the effects of penetration into traditional communities and on new forms of community structures in the modern world. Prerequisite: Soc 110 or Anth 110 or consent of instructor.

Soc 330 Sociology of Religion (3-4) (W)

Emphasizes major theoretical approaches to religion; magic, science and myth; patterns of religious organization; religion and social change; secularization and its effects; and new religious movements. Prerequisite: Soc 110 or consent of instructor.

Soc 333 Sociology of Gender (3-4) (F)

Focuses on the social construction of gender and consequences of the gender stratification system for women and men. Specific topics may include: the behavior differences between genders in the United States and why they exist the concept of "sex role"; the "nature-nurture" controversy; difference in conceptions of identity by sex; discrimination against women and men; gender role changes in the family and occupations; "problems" of being female and male; the feminist movement; and other topics. Prerequisite: Soc 110 or consent of instructor.

Soc 335 Sociology of Women and Medicine (3-4) (S)

Focuses on women as patients, health care workers and participants in the Women's Health Movement. The primary theme is to examine medicine as an institution of social control. Prerequisite: Soc 110 or consent of instructor.

Soc 340 Topics in Sociology of Health and Medicine (3-4)

Studies in selected topics from the sociology of health and medicine. Prerequisite: Soc 110 or consent of instructor.

Soc 350 Methods of Social Research I (4) (Fws)

Introductory social science statistics, including univariate and bivariate descriptive and inferential procedures. Prerequisite: Soc 110 or consent of instructor.

Soc 351 Methods of Social Research II (4) (Ws)

An introductory survey of research methods, including survey, experiment and participant/observation, hypothesis formulation, literature search, questionnaire design, computer use, and research report using secondary survey data. Prerequisite: Soc 350.

Soc 353 Qualitative Methods (4) (S)

Examines the major methodological problems encountered in the use of qualitative data; practices and evaluates the more important techniques employed in the collection and analysis of such data. Prerequisites: Soc 110 or consent of instructor.

Soc 355 Society and the Ecosystem (3-4) (F)

Focuses on relationships between social systems and ecosystems. Examines how human systems of agriculture, transportation, housing and energy are related to environmental pollution, depletion, and sustainability. Prerequisite: Soc 110 or consent of instructor.

Soc 404 Social Power (3-4) (W)

Examines social power from a variety of approaches, including: Marx, Michels, Mosca, Pareto, deToqueville, mass society theory, pluralism, Suzanne Keller, C. Wright Mills, C. William Domhoff, Max Weber, John Kenneth Galbraith, and interlocking directorates. Prerequisite: Soc 211 or consent of instructor.

Soc 405 Probation and Parole (3-4) (W)

Examines the emergence and effects of two dynamic 20th century punishment bureaucracies. Focus is on issues current in the areas of probation and parole. Prerequisite: Upper-division status including Soc 300 or consent of instructor.

Soc 409 Social Policies and Services for the Elderly (4) (Fws)

Examines social policies involving the elderly, including Social Security, Older Americans' Art, Medicare, and Medicaid. The extent of need and the continuum of services available are also covered. Prerequisite: Soc 308, SW 308 and consent of instructor.

Soc 411(g) Issues in Sociology (3-4) (W or S)

Examines some of the most prominent theoretical and substantive issues identified by sociologists since roughly the beginning of this century, and especially since the end of World War II. Prerequisite: Soc 211 or consent of instructor.

Soc 412g Complex Organizations (3-4) (W)

Sociological analysis of large-scale bureaucratic organizations, from corporations to colleges. Topics include: the characteristics of bureaucracy and its consequences for the organization member and for society; the uses of power by organizations; the effectiveness of organizations; and the impact of organizations on societal change. Prerequisite: Soc 110, Soc 111 or consent of instructor.

Soc 416(g) Violence in the Family (3-4)

Applies various sociological perspectives to the topic of family violence. The following specific "types" of family violence are analyzed: violence by parents toward children, dating, marital, and sibling violence, violence by children toward parents, and sexual abuse. Possible societal-level "solutions" are examined. Prerequisite: Soc 220 or consent of instructor.

Soc 418(g) Sociology of Education (3-4)

Examines societal factors and school structures that affect learning in primary and secondary schools and in higher education. Focuses on the effects of social class, sex differences, individual abilities, and the structure of the classroom and the school. Prerequisite: Soc 110 and 9 credits in sociology or 9 credits in education, or consent of instructor.

Soc 420(g) Trends in American Society (3-4)

Examines broader social, cultural and institutional developments in American society since roughly the Civil War: e.g., economic centralization, bureaucratization, changes in class structure, the political claims of minority groups and their effects, the problems of societal coordination, the decline of the American empire, etc. Prerequisite: Soc 110 or consent of instructor.

Soc 425(g) Seminar in Sociology (3-4)

Selected topics. Prerequisite: Upper-division status and consent of instructor. May be repeated for credit.

Soc 449(g) Topics in Social Stratification (3-4)

Studies in the nature and processes of social inequality. Prerequisite: 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)

A program of advanced readings in some sociological topic under the supervision of an instructor. Prerequisite: Senior status and consent of instructor.

Soc 469 Internship in Sociology (3-16) (Fws)

Spanish

See Languages for curricula and courses.

Special Education and Counseling Department

Lommen 203

(218) 236-2297

Chair: Paul Beare (E/BD Coordinator)

Faculty: Norman Buktenica, Evelyn Lynch (ECSE Coordinator), William Packwood (Director, Counseling & Human Development), John Patrick (Counselor Education), Susan Severson (MSMH Coordinator), Linda Svobodny (MMMH Coordinator), Barbara Wasson (Mildly Handicapped Masters Coordinator), John Wasson (SLD Coordinator)

See Secondary Education and Foundations Department for Counseling courses

Major in Special Education

To be awarded a major in Special Education, a student must complete at least one licensure area, as a teacher of early childhood special education (ECSE), emotional/behavioral disorders (E/BD), mild to moderate mentally handicapped (MMMH), moderate to severe mentally handicapped (MSMH), or specific learning disabilities (SLD). By combining components a student may meet the requirements for multiple licensures.

All special education majors must complete the professional education requirements and Special Education Core. (See Education)

Professional Education Requirements

SpEd 200 Orientation to Special Education (2)

Ed 213 Interpersonal Communications (3)

Ed 214 Human Growth and Development (3)

Ed 305 Educational Psychology (3)

Ed 388 Cultural Pluralism (3)

Special Education Core

SpEd 320 Educational Services for Exceptional Individuals (4)

SpEd 363 Assessment in Special Education (3)

SpEd 364 Consultation in Special Education (3)

SpEd 471g Behavior and Environmental Management (3)

SpEd 494g Legal/Social Foundations of Special Education (3)

Special Education majors pursuing E/BD, MMMH or SLD must hold an elementary or secondary teaching license and have completed equivalent courses to those listed below or complete the classroom teaching exemption courses listed below:

Classroom Teaching Exemption

Math 344 Mathematics for Special Education (4)

Ed 345 Foundations for Teaching Language & Reading (3)

Ed 442 Curriculum Foundations (4)

Ed 467g Practicum-Elementary Teaching (3)

SpEd 445g Remedial and Corrective Reading (4)

Early Childhood Special Education

SLHS 204 Language Development (4)

Ed 370 Growth and Development of the Young Child (3)

Ed 371 Observing and Recording Young Children's Behavior (1)

Ed 372 Art, Music & Literature for Young Children (3)

Ed 475g Curriculum Development for Young Children (3)

Ed 478g Play & Development (3)

Ed 455C Early Childhood Student Teaching (3)

SpEd 412g Mental Retardation (4)

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

SpEd 424g Assessment Strategies (4)

SpEd 426g Instructional Strategies: Infant (4)

SpEd 427g Instructional Strategies: Preschool (4)

SpEd 428g Family Ecology of the Handicapped (3)

SpEd 459g Communication Programming for Persons with Severe Handicaps (3)

SpEd 466E Pre-practicum: Preschool (3-6)

SpEd 468E Infant/Interagency Practicum (3)

SpEd 450E Student Teaching in Early Childhood Special Education (13)

Emotional/Behavioral Disorders

SpEd 413g Instructional Strategies I:

Elementary (4)

SpEd 463g Assessment Strategies: Mildly Handicapped (3)

SpEd 464g Educational Planning and Adaptation for Students with Learning Problems (2)

SpEd 466g Prepracticum: Mildly Handicapped (2)
SpEd 467A Mildly Handicapped Practicum: Secondary (6)
SpEd 473g Educating Children with Behavior Disorders (4)
SpEd 478g Educational Interventions for Students with Emotional/Behavioral Disorders (3)
SpEd 479g Children and Adolescents in Crisis (3)
SpEd 468C Practicum: Emotional/Behavioral Disorders (6)

Mild to Moderate Mentally Handicapped

SpEd 412g Mental Retardation (4)
SpEd 413g Instructional Strategies I: Elementary (4)
SpEd 414g Instructional Strategies II: Secondary (4)
SpEd 444g Language and Learning Problems in Children (4)
SpEd 463g Assessment Strategies: Mildly Handicapped (3)
SpEd 466A Prepracticum: Mildly Handicapped (2)
SpEd 451M Student Teaching: Mild to Moderate Mentally Handicapped (16)

Moderate/Severe Mentally Handicapped

SLHS 204 Language Development (4)
SpEd 412g Mental Retardation (4)
SpEd 417g Educating Students with Multiple Handicaps (4)
SpEd 428g Family Ecology of the Handicapped (3)
SpEd 456g Curriculum and Assessment for Severely Handicapped (3)
SpEd 457g Instructional Strategies for Persons with Severe Handicaps (3)
SpEd 459g Communication Programming for Persons with Severe Handicaps (3)
SpEd 470g Transitional Planning for Persons with Severe Handicaps (3)
SpEd 474g Management for Severe Maladaptive Behavior (3)
SpEd 466H Prepracticum: Severely Handicapped (3)
SpEd 451S Student Teaching: Moderate to Severe Mentally Handicapped

Specific Learning Disabilities

SpEd 444g Language and Learning Problems in Children (4)
SpEd 461g Educating Children & Youth with Specific Learning Disabilities (4)
SpEd 463g Assessment Strategies: Mildly Handicapped (3)
SpEd 464g Educational Planning and Adaptation for Students with Learning Problems (2)
SpEd 466g Prepracticum: Mildly Handicapped (2)
SpEd 475g Teacher

Communication/Consultation: Specific Learning Disabilities (4)

SpEd 467A Mildly Handicapped Practicum: Secondary (6)

SpEd 468B Practicum: Specific Learning Disabilities (6)
Licensure in Special Education Programs leading to license by the State of Minnesota as teachers of E/BD, MMMH, or SLD, without completing an entire major are offered through the Special Education & Counseling Department. Such licensure requires completion of a bachelor's degree with an elementary or secondary teaching major and a program of designated courses in special education.

Licensure in the area of Mildly Handicapped is available to those who already possess a valid special education license and complete a prescribed master's degree program in Mildly Handicapped.

SPECIAL EDUCATION COURSES

SpEd 200 Orientation to Special Education (2) (FWS)

Introduction to the field of education focusing on special education. Course includes a number of field experiences involving service settings for children and adults with exceptionalities. Prerequisite: None.

SpEd 220 Education of the Exceptional Child (3) (FWS)

Introduction to recognition, incidence and educational needs of exceptional children. Prerequisite: None.

SpEd 320 Educational Services for Exceptional Individuals (4) (FW)

Introduction to the recognition, incidence and educational needs of exceptional children. A wide range of educational services for exceptional children is studied with emphasis on the shared responsibility of all education professionals. Prerequisite: None.

SpEd 363 Assessment in Special Education (3) (FS)

An introduction to assessment in special education including basic statistical and measurement concepts, use of standardized and nonstandardized assessment procedures, and interpretation of assessment results. Prerequisite: None.

SpEd 364 Consultation in Special Education (3) (FWS)

Through exposure to related literature and simulation exercises, develop an understanding of the process and practice of consulting with teachers, parents and children. Prerequisite: None.

SpEd 412(g) Mental Retardation (4) (F)

Overview of the definitions, characteristics, associated handicaps and medical aspects of persons with mental handicaps. Prerequisite: SpEd 320.

SpEd 413g Instructional Strategies I: Elementary (4) (FS)

Curriculum planning and classroom teaching techniques for elementary level mild to moderately handicapped students will be examined. Topics will include adaptation of instruction, assessment and designing individualized educational plans, as well as various content and learning problems. Prerequisite: SpEd 200, 320, and 363.

SpEd 414(g) Instructional Strategies II: Secondary (4) (W)

Curriculum planning and classroom techniques for secondary level students with mild to moderate disabilities will be examined. Special emphasis is placed on interpersonal, social and community problems which appear to be at a high prevalence in the adolescent years. Strategies for teaching basic skills will be explored as well as teaching school survival skills. The focus will be on looking at lifelong needs of these special learners. Prerequisite: SpEd 200, 320, 363, and 413.

SpEd 417(g) Educating Students with Multiple Handicaps (4) (W)

An introduction to the definitions, characteristics, instructional methods/techniques, and educational programming for learners with profound/multiple disabilities. Prerequisite: SpEd 200, 320, 412g and 456g or consent of instructor.

SpEd 421(g) The Gifted Child (3)

Definition, identification, and current school program for the child with superior ability or special talents.

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 421g

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

Examination of the research related to early intervention and overview of program models for services to young children with disabilities. Prerequisite: SpEd 200, 320, 363, 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 disabilities. Approaches to identification, screening, assessment selection and programming are explored. Prerequisite: SpEd 320 or 363 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 disabilities in integrated settings. Prerequisite: SpEd 220 or consent of instructor.

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

Investigation of goals and decision-making process to develop objectives and methods to facilitate development of children with disabilities from birth to 3 years. Prerequisite: SpEd 320, 363, 423g, 424g, Ed 370, 371 or consent of instructor.

SpEd 427(g) Instructional Strategies: Preschoolers (4) (W)

Investigation of methods to design and implement individual and group instructional and behavioral programs for children with disabilities from 3-6 years. Prerequisite: SpEd 320, 363, 423g, 424g Ed 370, 371 or consent of instructor.

SpEd 428(g) Family Ecology of the Handicapped (3) (W)

Inquiry into historical and ecological/transactional perspective, and functions of the family with special-needs child; school/family relationships. Prerequisite: SpEd 320g or consent of instructor.

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

Advanced treatment of selected topics on research and practice in mental retardation. Prerequisite: SpEd 320.

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

Directed field placement, reading, or research in special education. Prerequisite: SpEd 320. May be repeated up to 6 credits.

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

Creative activities for exceptional children; practical experiences in the areas of art, crafts, music, drama and their interrelationships. Prerequisite: SpEd 320.

SpEd 444(g) Language and Learning Problems in Children (4) (W)

A detailed coverage of the impact of language processes and language development on school learning problems, including the development of basic academic skills. The course will provide knowledge and basic skills in understanding the significance of language development on special educational interventions with school aged children. Prerequisite: Ed 214 and SpEd 320.

SpEd 445(g) Remedial and Corrective Reading (4) (FWS)

Presentation of causes, diagnosis, and informal assessment of reading difficulties. Methods of correcting reading difficulties are studied. Prerequisite: Ed 345

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

Supervised practice in remediating reading-disabled children at the primary, intermediate, and secondary level. Prerequisite: Ed 345 or teaching experience, SpEd 445.

SpEd 451E Student Teaching: ECSE (13) (FWS)

Student teaching in public school setting for young children with disabilities. Prerequisite: SpEd 364, 412g, 494g, 423g, 424g, 426g, 427g, 428g, (or concurrently), 459g, (or concurrently), Ed 455, SpEd 467E, and 3.0 GPA in major.

SpEd 451M Student Teaching: MMMH (16) (FWS)

Student teaching in resource or self-contained setting for pupils with mild to moderate mental retardation. Prerequisite: SpEd 364g, 412g, 413g, 414g, 444g (or concurrently), 463g, 466g, 494g (or concurrently) with GPA of 3.0 in major.

SpEd 451S Student Teaching: MSMH (16) (FWS)

Student teaching in an elementary or secondary setting for pupils with moderate to severe mental retardation. Prerequisite: SpEd 364, 417g, 457g, 467H, 470g, 471g, and 474g with GPA of 3.0 in major.

SpEd 456(g) Curriculum and Assessment for Severely Handicapped (3) (F)

Examines program philosophy in teaching students with severe handicaps. Topics include curriculum approaches, methods of assessment, instructional techniques, and team approaches. Prerequisite: SpEd 412g.

SpEd 457(g) Instructional Strategies for Persons with Severe Handicaps (3) (W)

Classroom techniques for teaching students with severe handicaps. Topics include classroom environment, scheduling, planning, record keeping, and instructional strategies using a functional program approach. Prerequisite: SpEd 412g and 456g.

SpEd 459(g) Communication Programming for Persons with Severe Handicaps (3) (W)

This course covers issues related to communication program and decision-making models for communication programming with the severely handicapped. The emphasis is on assessing an individual's communication skills, selecting appropriate components for the communication system and planning intervention strategies. Prerequisite: SpEd 412g and SLHS 204.

SpEd 461(g) Educating Children and Youth with Specific Learning Disabilities (4) (FW)

An introduction to definition, assessment, characteristics, and educational strategies for children and youth with specific learning disabilities. Prerequisite: SpEd 320.

SpEd 463(g) Assessment Strategies: Mildly Handicapped (3) (S)

Assessment of scholastic achievement and aptitude, social and adaptive behavior, and instructional effectiveness through the use of norm referenced individual test instruments and informal instructor designed procedures. Report writing, establishment of objectives, and participation with parents and teachers in the development of individual educational programs included. Prerequisite: SpEd 320, 363, 445g, and 471g, with a 2.5 GPA and concurrent registration in SpEd 466g.

SpEd 464(g) Educational Planning and Adaptation for Students with Learning Problems (2) (FWS)

Educational and transitional adaptations for students with learning disabilities or emotional/behavioral disorders based on individual cognitive, affective and behavioral characteristics. Prerequisite: SpEd 461g or 473g, 463g, 466 and concurrent registration in SpEd 467A.

SpEd 466A Prepracticum: Mildly Handicapped (2) (S)

Field experience in assessment and remediation of the academic and behavioral skills of mildly handicapped students. Prerequisite: Concurrent registration in SpEd 463g.

SpEd 466E Prepracticum: Preschool (3-6) (FWS)

Directed practicum with children with disabilities (4-6 years) in public school classroom. Prerequisite: SpEd 423g, 2.5 GPA in major and consent of instructor.

SpEd 466H Practicum: Severely Handicapped (3) (FWS)

Directed practicum experience in an elementary or secondary classroom for students with moderate to severe mental handicaps. Prerequisite: SpEd 457g (or concurrently), 459g, 470g, and 474g, and 2.5 GPA in major.

SpEd 467A Mildly Handicapped Practicum: Secondary (6) (FWS)

Directed practicum experience in secondary level special education resource room setting. Prerequisite: Concurrent registration in SpEd 464g, 3.0 GPA in major, and consent of instructor.

SpEd 468B Practicum: SLD (6) (WS)

Directed practicum experience in specific learning disabilities teaching with emphasis on advanced assessment techniques and consultative strategies. Prerequisite: concurrent registration in SpEd 475g and 3.0 GPA in major.

SpEd 468C Practicum: E/BD (6) (FWS)

Directed practicum experience in a self-contained setting for children and/or youth with emotional behavioral problems. Prerequisite: SpEd 364, 413g, 463g, 473g, 478g, 479g, 494g, and 3.0 GPA in major.

SpEd 468E Infant/Interagency Practicum (3-6) (FWS)

Directed practicum with infants and toddlers with handicaps from education, health, and social services perspectives in home and clinical settings. Prerequisite: SpEd 423g and consent of instructor. This practicum may be taken prior to SpEd 467E, concurrently with SpEd 426g or after successful completion of SpEd 467E, and 3.0 GPA in major.

SpEd 470(g) Transitional Planning for Persons with Severe Handicaps (3) (S)

Transitional planning for secondary students with disabilities including transitional assessment, programming and planning. Knowledge of post secondary service options and funding sources. Prerequisite: SpEd 412g.

SpEd 471(g) Behavior and Environmental Management (3) (FW)

Analysis and programming of behavior and environmental variables as they relate to children with disabilities in the classroom, community, and home. Prerequisite: SpEd 320 or consent of instructor.

SpEd 472(g) Educational Diagnosis and Programming (3)

Principles and practices of diagnostic-prescriptive programming for children with disabilities. Prerequisite: SpEd 220 or 320.

SpEd 473(g) Educating Children with Behavior Disorders (4) (F)

Knowledge, rationale, program components, operation of various program models for students with emotional/behavioral disorders. Prerequisite: SpEd 320 and 471 or consent of instructor.

SpEd 474(g) Management of Severe Maladaptive Behavior (3) (W)

Advanced instruction in definition, identification, measurement, and programmatic remediation of challenging behaviors in persons with moderate to severe disabilities, infant through adult. Prerequisite: SpEd 471g and 412g or SpEd 473g or equivalent coursework approved by the instructor.

SpEd 475(g) Teacher Communication/ Consultation: Specific Learning Disabilities (4) (WS)

Theory and practice for special learning disabilities resource consultant including direct services, assessment and report writing, consultation with regular classroom teachers and working with parents of learners with handicaps. Prerequisite: SpEd 364, 444g (or taken concurrently), 461g, 494g (or taken concurrently), and 463g, SpEd 466g, concurrent registration in SpEd 468B.

SpEd 478(g) Educational Interventions for Students with Emotional/Behavioral Disorders (3) (W)

Program design, intervention techniques, and management strategies for school age students with emotional/behaviorally disordered students. Prerequisite: SpEd 413g, 471g, and 473g.

SpEd 479(g) Children and Adolescents in Crisis (3) (FS)

Overview of life crises effective children's behavior with special emphasis on disturbed adolescents. Topics include chemical dependency, suicide, eating disorders, delinquency, alternative school programs, and special education intervention models. Prerequisite: SpEd 473.

SpEd 494(g) Legal/Social Foundations of Special Education (3) (FS)

An overview of the sociological, historical, legal, and educational basis for special education within public school systems. Includes research on efficacy of special education, controversies surrounding least restrictive environments, integration and mainstreaming. Emphasis on teacher roles, professional responsibilities, and best practices. Stresses knowledge and skills related to components of individualized educational plans. Prerequisite: SpEd 320

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.

SpEd 511 Understanding the Mildly Handicapped (3)

Advanced coverage of definitions, assessment, characteristics, and educational interventions for learners with mild to moderate mental retardation, learning disabilities, or behavioral disabilities. Prerequisite: Graduate standing.

SpEd 524 Advanced Assessment in Early Childhood (3)

Advanced instruction in measurement, assessment and interpretation of developmental status of infants, toddlers and preschoolers with mild to severe disabilities. Emphasis on family-focused assessment and individual child and family goal setting. Prerequisite: SpEd 424 or equivalent, graduate standing, or consent of instructor.

SpEd 528 Family Focused Intervention in ECSE (3)

Advanced instruction on the application of family systems literature to research and intervention with families of infants, toddlers and preschoolers with disabilities or at-risk for disabilities. This course is designed for professionals who are responsible for the coordination of interagency services (hospital, health, social services, educational and community) to families. Prerequisite: Graduate standing and permission of the instructor.

SpEd 545 Diagnosis and Correction of Reading Difficulties (3)

Advanced study of reading difficulties: Prerequisite: SpEd 445g.

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 563 Advanced Measurement/Assessment (3)

Advanced coverage of measurement and assessment in special education as applied to mildly handicapped learners, including measurement concepts; use of standardized and nonstandardized assessment procedures; rating scales and observational techniques; and interpretation of assessment results. Prerequisite: Graduate standing and SpEd 463.

SpEd 564 Theory and Process of Consultation (3) (Summer)

Exploration of theory and process of various consultation models, consultant roles, research and evaluation across community, mental health, and school settings. (Same as Ed 564)

SpEd 565 Educational Program Development: Mildly Handicapped (3)

Selected topics in SpEd program development. Prerequisite: Consent of instructor.

SpEd 567A Mildly Handicapped Practicum: Secondary (6) (FWS)

Directed practicum experience in secondary level special education resource room setting. Prerequisite: Consent of instructor and 3.0 GPA in major.

SpEd 567E Preschool Practicum (3-6) (FWS)

Advanced practicum with children with handicaps (4-6 years) in public school classroom. Prerequisite: Consent of instructor and 3.0 GPA in major.

SpEd 567H Practicum: Severely Handicapped (3)

Directed practicum experience in an elementary or secondary classroom for students with moderate to severe mental handicaps. Prerequisite: SpEd 457g (or concurrently), 459g, 470g, and 474g, consent of instructor and 3.0 GPA in major.

SpEd 567M Educational Planning Practicum (3)

Practice managing assessment, program planning, and consultation for an SLD, E/BD, and an MMMH student. Practicum experiences at both the elementary and secondary level. Prerequisite: SpEd 563, 571, and 572, consent of instructor and 3.0 GPA in major.

SpEd 568B Practicum: SLD (6) (FWS)

Directed practicum experience in specific learning disabilities teaching with emphasis on advanced assessment techniques and consultative strategies. Prerequisite: Consent of instructor, concurrent 475g and 3.0 GPA in major.

SpEd 568C Practicum: E/BD (6) (FWS)

Directed practicum experience in a self-contained setting for children and/or youth with emotional behavioral problems. Prerequisite: SpEd 413g, 463g, 473g, 478g, 479g (or concurrently), and 494g, consent of instructor and 3.0 GPA in major.

SpEd 568D Practicum: MMMH (6)

Advanced practicum experience in an elementary or secondary classroom serving students with mild/moderate disabilities. Prerequisite: Consent of instructor and 3.0 GPA in major.

SpEd 568E Infant/Interagency Practicum (3-6)

Advanced practicum with infants and toddlers with disabilities from education, health, and social services perspectives in home and clinical settings. Prerequisite: Consent of instructor and 3.0 GPA in major.

SpEd 568H Practicum: MSMH (6)

Advanced A practicum experience in an elementary or secondary classroom serving students with moderate/sever disabilities. Prerequisite: Consent of instructor and 3.0 GPA in major.

SpEd 568M Consultative Practicum (3)

One academic quarter or the equivalent of experience with a multidisciplinary team planning and implementing instructional programming for mildly handicapped students at the elementary and secondary level. Prerequisite: SpEd 564, 565, and 570, consent of instructor and 3.0 GPA in major.

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 568, and consent of instructor.

SpEd 570 Transitional Planning: Mildly Handicapped (3)

Transitional planning for mildly handicapped students. Current requirements and available resources will be examined. Procedures will be studied for developing cooperative programming between school and community agencies so that students will be prepared for transition into the community and adult life.

SpEd 571 Advanced Planning Strategies: Mildly Handicapped (3)

Advanced instruction in observation, assessment, and interpretation of student performance including ability to observe, record, and analyze the learning environment and learning style of students and then involve students parents and mainstream professionals in meeting instructional goals.

SpEd 572 Educational Diagnosis and Programming (3)

Critical analysis for selected applications of behavioral science to education of handicapped children and youth, including implications for use in education. Prerequisite: Graduate standing. SpEd 320, 463 and consent of instructor.

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)

Exploration of current practices, relevant literature, professional practices, legal issues, research and funding patterns. Prerequisite: Graduate status.

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.

**Department of Speech Communication and Theatre Arts
Center for the Arts 116,
(218) 236-2126**

Chair: Carol Gaede

Faculty: Bryant Alexander, James Bartruff, Marty Birkholt (on leave), Timothy Choy, David Grapes, Virginia Gregg, Roray Hedges, Ted Larson, John Ravet, Larry Schnoor, David Wheeler

AREAS OF STUDY: Speech Communication and Theatre Arts (see also English curricula for English-Speech-Theatre teaching combination).

SPEECH-THEATRE CURRICULA

The Department provides opportunities for the student to pursue academic study in Speech Communication and/or Theatre Arts. Majoring in either of these areas encourages the student to combine career preparation with the breadth and depth of knowledge traditionally associated with the liberal arts. Within each major, a student may select from a variety of career concentrations. Students in the department are trained to develop analytical skills, research approaches, organizational techniques, and performance abilities essential for success in many professional fields.

Major in Speech Communication B.A. Degree (68 credits)

This degree is designed for the student who wishes to develop basic understanding and proficiency in the established theories, effective techniques, and useful skills of the speech communication field. Students majoring in Speech Communication are encouraged to take a second major or a minor in a related area of interest. In addition to the core requirements for the major, students will complete one of the career concentrations listed.

Core Requirements for all majors in Speech Communication (31 credits)

Spch 100 Speech Communication (4)

Spch 101 Voice and Diction (4)

Spch 105 Beginning Oral Interpretation (4)

Spch 202 Introduction to Rhetoric (4)

Spch 219 Introduction to Telecommunication(4)

Spch 220 Introduction to Theatre (4)
*Spch 490 Senior Seminar in Speech/Theatre (4)
Three credits from at least two of the following areas:
Spch 010 Collegiate Forensics (1)
Spch 020 R/TV/Film Practicum (1)
Spch 150 Theatre Practicum (1)
*Grade of "C" or better required for graduation
One of the career concentrations listed below (37 credits)

Professional Communication Concentration

The student who plans a professional career as a communication consultant, lawyer, salesperson, business manager, minister or public relations consultant should elect the following concentration of courses:

Spch 204 Principles of Debate (4)
Spch 209 Parliamentary Procedures (3)
Spch 280 History of the Film (4)
Spch 290 Radio-Television Performance (4)
Spch 308 Small Group Communication (4)
Spch 312 Principles of Persuasion (4)
At least 14 credits of departmental electives at the 300 level or above.

Film & Telecommunication Arts

The student interested in a professional career in the production and performance phases of radio, television, and/or film should elect the following concentration of courses. Students interested in the journalism area should consider taking the Broadcast News concentration in the Mass Communications Department.

Spch 280 History of Film (4)
Spch 284 Beginning Film Making (4)
Spch 285 Radio-TV Operations (3)
Spch 290 Radio-Television Performance (4)
One course from the following:
Spch 308 Small Group Communication (4)
Spch 310 Contemporary Rhetoric (3)
Spch 312 Principles of Persuasion (4)
One course from the following:
Spch 222 Principles of Acting (4)
Spch 244 Principles of Play Direction (4)
Spch 250 Technical Theatre Methods (4)
At least 14 credits of departmental electives at the 300 level or above.

Individualized Speech Communication Concentration

This program is designed for the student who is not interested in pursuing a career-oriented concentration of courses but whose work involves community leadership programs which deal with a variety of communication activities found in religious, social, civic, and cultural organizations. As a result, some flexibility in the structuring of courses is possible. The following requirements are stipulated for an individualized Speech Communication concentration.

Substitute the requisite number of credits in approved speech communications courses for the area of concentration through consultation with an advisor.
At least 50 percent of credits in this concentration must be at the 300 level or above.

Minor in Speech Communication B.A. Degree (38-39 credits)

Core requirements except Spch 490 (27 credits) as listed under the major in Speech Communication; four electives from listings in a given career concentration area as listed under the major in Speech Communication (11-12 credits)

Major in Theatre Arts B.A. Degree (78 credits)

This degree is designed for the student who wishes to pursue a broadly based humanistic theatre arts background, a career in one phase of professional theatre, or preparation for graduate study. Students majoring in theatre arts are encouraged to develop an additional area of concentration in a related field in consultation with an advisor.

Core Requirements for all majors in Theatre Arts (30 credits)

Spch 100 Speech Communication (4)
Spch 126 Stage Dance I (4)
Spch 150 Theatre Practicum (1) (6 credits total)
Spch 220 Intro to Theatre (4)
Spch 222 Principles of Acting (4)
Spch 244 Principles of Directing (4)
Spch 250 Technical Theatre Methods (4)

The Theatre Arts Core will be required of all undergraduate majors. When students have completed an emphasis, they will have studied the breadth of theory and practice across the theatre arts discipline and in related speech communication areas.

In addition to the core requirements, students will complete one of the following career concentrations.

Acting

The student primarily interested in the development of artistic skills as a stage performer should elect the following concentration of courses which will provide a sound background in stage voice, stage movement, dramatic literature, and an understanding of the total theatre production process. An area of concentration in a related field is advised.

Spch 232 Scene Study (4)
Spch 254 Intro to Stage Design (4)
Spch 322 Development of Drama I (4)
Spch 324 Development of Drama II (4)
Spch 326 Development of Drama III (4)
Spch 332 Movement/Voice for Actors (4)
Spch 333 Advanced Movement/Voice for Actors (4)
Spch 431G Acting Styles (4)
Spch 432G Advanced Scene Study (4)
Spch 490 Senior Seminar (4)
Total: 40 credits plus Theatre Core (30 credits) plus two electives at 300 level or above (8 credits).
TOTAL: 78 credits

Directing

The student planning a career as a stage director in a community, institutional, or professional theatre setting should elect the following concentration of courses which is designed to provide a knowledge of the entire production process as well as with special emphasis in acting, directing, dramatic literature, and theatre organization.

Spch 232 Scene Study (4)

Spch 254 Intro to Stage Design (4)

Spch 322 Development of Drama I (4)

Spch 324 Development of Drama II (4)

Spch 326 Development of Drama III (4)

Spch 332 Movement/Voice for Actors (4)

Spch 344 Advanced Directing (4)

Spch 431 Acting Styles (4)

Spch 444 Styles of Directing (4)

Spch 490 Senior Seminar (4)

Total: 40 credits plus Theatre Core (30 credits) plus two electives at 300 level or above (8 credits).

TOTAL: 78 credits required for major.

Technical Theatre

The student planning a career either as a scene designer, technical director, or lighting technician in a community, institutional, or professional theatre setting should elect the following concentration of courses. An area of concentration in a related field such as Art or Industrial Art is recommended.

Spch 254 Intro to Stage Design (4)

Spch 322 Development of Drama I (4)

Spch 324 Development of Drama II (4)

Spch 326 Development of Drama III (4)

Spch 344 Advanced Directing (4)

Spch 350 Advanced Tech Theatre Methods (4)

Spch 351 Scene Design I (4)

Spch 352 Stage Lighting (4)

Spch 451 Scene Design II (4)

Spch 490 Senior Seminar (4)

Total: 40 credits plus Theatre Core (30 credits) plus two electives at 300 level or above (8 credits).

TOTAL: 78 credits required for major.

Theatre Arts Management

The student planning a career in theatre arts management work, either with governmental arts organizations or with professional and regional theatre companies, should elect the following concentration of courses. Independent study projects and/or an internship should be considered as well as a strong area of concentration in a related field of study such as Business Management.

Spch 228 Theatre Arts Management (3)

Spch 254 Intro to Stage Design (4)

Spch 285 Radio-TV Operations (3)

Spch 312 Principles of Persuasion (4)

Spch 322 Development of Drama I (4)

Spch 324 Development of Drama II (4)

Spch 326 Development of Drama III (4)

Spch 469 Internship (10)

Spch 490 Senior Seminar (4)

Total: 40 credits plus Theatre Core (30 credits) plus two electives at 300 level or above (8 credits).

TOTAL: 78 credits required for major.

Children's Dramatics

The student planning a career in creative dramatics or children's theatre with church, community, or professional theatre groups should elect the following concentration of courses. Independent study projects and/or an internship should be considered as well as an additional area of related study such as Recreation.

Spch 223 Stage Make-Up (3)

Spch 254 Intro to Stage Design (4)

Spch 322 Development of Drama I (4)

Spch 324 Development of Drama II (4)

Spch 326 Development of Drama III (4)

Spch 332 Movement/Voice for the Actor (4)

Spch 333 Adv. Movement/Voice for the Actor (4)

Spch 341 Creative Dramatics (3)

Spch 342 Children's Theatre (3)

Spch 490 Senior Seminar (4)

Total: 37 credits plus Theatre Core (30 credits) plus electives at 300 level or above (11 credits).

TOTAL: 78 credits

Individualized Theatre Arts

This program is designed for the student who is not interested in pursuing a career-oriented concentration of courses but who wishes to pursue the study of theatre through the areas of theatre history, dramatic literature, and dramatic theory and criticism. Additional work in film theory and criticism is recommended as well. The following requirements are stipulated:

Theatre Core (30 credits)

Spch 322 Development of Drama I (4)

Spch 324 Development of Drama II (4)

Spch 326 Development of Drama III (4)

Spch 490 Senior Seminar (4)

TOTAL: 46 credits

The remaining credits required in this area of concentration must be approved through consultation with an advisor. In addition to the 46 credits stipulated above, the student in this concentration must complete an additional 32 speech-theatre credits for a total of 78.

Minor in Theatre Arts B.A. Degree (35 credits)

Spch 100 Speech Communication (4)

Spch 126 Stage Dance I (4)

Spch 150 Theatre Practicum (1) (3 credits total)

Spch 220 Intro to Theatre (4)

Spch 222 Principles of Acting (4)

Spch 244 Principles of Directing (4)

Spch 250 Technical Theatre Methods (4)

Two electives at 300 level or above (8 credits)

TOTAL: 35 credits

Minor in Theatre Arts Dance B.A. Degree (36 credits)

Spch 126 Dance for the Stage I (4)
Spch 127 Dance for the Stage II (4)
Spch 128 Dance for the Stage III (4)
Spch 332 Movement/Voice for Actors (4)
Spch 335 Principles of Choreography (4)
Spch 433 Dance Production (2)
PE 220 Human Anatomy (4)
PE 348 Dance History (2)
MUS 110 Fundamentals of Music (4)
or Mus 111 Musicianship for Non-Majors I (4)
Electives at 300 level or above (4)
TOTAL: 36 credits

Major in Speech Communication and Theatre Arts (Teaching) (64 credits)

The Bachelor of Science degree in Education with a major in Speech Communication/Theatre Arts is designed for the student who wishes to pursue a career in the teaching profession. This degree will allow the student to receive certification necessary to qualify as a Speech Communication-Theatre Arts instructor in secondary schools.

The student may also wish to consider an additional area of study in order to have greater flexibility for employment in teaching; the fields of English and Mass Communications are particularly recommended.

Major Course Requirements (64 credits)
Spch 100 Speech Communication (4)
Spch 101 Voice and Diction (4)
Spch 105 Beginning Oral Interpretation (4)
Spch 202 Introduction to Rhetoric (4)
Spch 204 Principles of Debate (4)
Spch 220 Introduction to Theatre (4)
Spch 222 Principles of Acting (4)
Spch 244 Principles of Directing (4)
Spch 250 Technical Theatre Methods (4)
Spch 280 History of Film (4)
Spch 312 Principles of Persuasion (4)
Spch 340 The Teaching of Speech (4)
Spch 490 Senior Seminar in Speech/Theatre (4)
SLHS 101 Introduction to Speech, Language, and Hearing Sciences (3)
Electives in Speech Communication/Theatre Arts at 300 level or above (9)

To satisfy the requirements of the State Board of Education for secondary certification with a major in Speech Communication/Theatre Arts, students must participate in at least two speech activities: forensics, theatre, oral interpretation, or broadcasting.

(All Teacher Education requirements shall be fulfilled to complete this major. See Education Department)

Minor in Speech Communication (Teaching) (38 credits)

Spch 100 Speech Communication (4)
Spch 101 Voice and Diction (4)
Spch 202 Introduction to Rhetoric (4)
Spch 204 Principles of Debate (4)
Spch 209 Parliamentary Procedures (3)
Spch 308 Small Group Communication (4)
Spch 340 The Teaching of Speech (4)
SLHS 101 Introduction to Speech, Language, and Hearing Sciences (3)
Electives in 300 level or above Speech Communication courses (8)
(This minor can be awarded only in combination with at least one teaching major.)

Minor in Theatre Arts (Teaching) (34-36 credits)

Spch 101 Voice and Diction (4)
Spch 105 Beginning Oral Interpretation (4)
Spch 220 Introduction to Theatre (4)
Spch 222 Principles of Acting (4)
Spch 244 Principles of Play Direction (4)
Spch 250 Technical Theatre Methods (4)
Spch 254 Intro to Stage Design (4)
Electives in 300 level or above Theatre Arts courses (8)
(This minor can be awarded only in combination with at least one teaching major.)

Dual Major in English and Speech Communication/Theatre Arts B.S. Degree (Teaching)

Major Requirements in English (64 credits)
Core Requirements (28 credits)
Engl 211-212-213 Major British Writers I-II-III (12)
Engl 371-372-373 Survey of American Literature I-II-III (12)
Engl 314 Shakespeare (4)
Electives in English (12 credits)
Elective, any level (4)
Electives, 300 or 400-level (8).
One course in literature recommended.
Courses Required for Teaching Certification (24 credits)
Engl 380 Literature: East and West (4)
Engl 365 Language and Learning (4)
Engl 391(g) Teaching English in Secondary Schools (4)
Engl 392(g) Teaching Adolescent Literature and Reading (4)
Engl 393(g) Grammars of English (4)
Engl 394 Advanced Composition (4)
Major Requirements in Speech Communication/Theatre Arts (54-55 credits)
Spch 100 Speech Communication (4)
Spch 101 Voice and Diction (4)
Spch 105 Beginning Oral Interpretation (4)
Spch 202 Introduction to Rhetoric (4)
Spch 204 Principles of Debate (4)
Spch 220 Introduction to Theatre (4)

Spch 222 Principles of Acting (4)
Spch 244 Principles of Directing (4)
Spch 250 Technical Theatre Methods (4)
Spch 280 History of the Film (4)
Spch 312 Principles of Persuasion (4)
Spch 340 The Teaching of Speech (4)
SLHS 101 Introduction to Speech, Language, and Hearing Sciences (3)
Electives in Speech Communication/
Theatre Arts at 300 level or above (3-4)

To satisfy the requirements of the State Board of Education for secondary certification with a major in Speech Communication/Theatre Arts, students must participate in at least two speech activities: forensics, theatre, oral interpretation, or broadcasting.
All Teacher Education Requirements must be fulfilled to complete this major.

SPEECH COMMUNICATION COURSES

Spch 010 Collegiate Forensics (1) (Fws)

Practical experience in individual and group speaking events and oral interpretation for inter-collegiate tournaments and on-campus activities.

Spch 020 R/TV/Film Practicum (1) (Fws)

Practical experience in radio/television, or film performance and production activities. (Maximum 4 credits)

Spch 100 Speech Communication (4) (Fws)

The theory and practice of public and personal speaking, stressing both content and delivery in speech communication.

Spch 101 Voice and Diction (4) (F)

The study of sound production designed to develop proficiency in voice and articulation. Students will learn the International Phonetic Alphabet.

Spch 105 Beginning Oral Interpretation (4) (Fws)

The theory and practice of the oral presentation of literature and critical listening; performances include poetry, prose and drama.

Spch 202 Introduction to Rhetoric (4) (F)

The principles and techniques of speech communication in the light of classical and modern rhetorical theory.

Spch 204 Argumentation and Debate (4) (F)

The theory and practice of argumentation and debate on questions of fact, value, and policy in public affairs.

Spch 209 Parliamentary Procedures (3) (on demand)

The theory and practice of parliamentary rules used to conduct business and professional meetings.

Spch 210 Effective Business Speaking (3) (Fws)

Theory and practice of communications in business and professional meetings.

Spch 219 Introduction to Telecommunication (4) (alternate years)

An introduction to telecommunications theory, appreciation, and criticism and its impact on the speech communication process. Speech communication is studied through the interrelationships among various functional and aesthetic elements of radio, television, and film.

Spch 284 Beginning Film Making (4) (alternate years)

Theory and practice for the pre-professional film maker. Students learn to operate basic motion picture equipment. Projects include planning, shooting, and editing short films.

Spch 285 Radio/Television Operations (3) (Fws)

Theory of and practical experience with basic radio and television equipment in studio and remote production. Projects include knowledge, application and aesthetics concerning equipment function, selection and operation. (Cross-listed as MC 285)

Spch 290 Radio-Television Performance (4) (F/alternating W)

Theory and practice in the professional areas of radio and television. Exercises include news anchoring/announcing, interviewing, hosting, and delivering public service announcements. (Cross-listed as MC 290)

Spch 305 Advanced Oral Interpretation (4) (on demand)

The analysis and performance of literary forms and styles. Prerequisite: Spch 105 or consent of instructor.

Spch 308 Small Group Communication (4) (WS)

The theory and practice of communication in a variety of formal and informal group situations. Prerequisite: Spch 100 or consent of instructor.

Spch 309 Rhetorical Criticism (4) (W)

Criteria for evaluating the problems, process, and effects of individual and/or group efforts to communicate.

Spch 310 Contemporary Rhetoric (3) (S)

Communication problems, strategies, techniques and issues in the contemporary community.

Spch 311 Readers' Theatre (4) (on demand)

Theory and techniques of group interpretation of literature through the readers' and/or chamber theatre format. Prerequisite: Spch 105 or consent of instructor.

Spch 312 Principles of Persuasion (4) (W)
Theory and practice of the logical and psychological aspects of persuasive speaking. Prerequisite: Spch 100 or consent of instructor.

Spch 317 Radio-Television Acting (4)
(on demand)
Theory and practice in acting roles in the professional areas of radio and television. Character portrayal situations such as commercials and dramas are included. Consent of instructor. (Recommended preparation: Spch 222)

Spch 340 The Teaching of Speech (4)
(on demand)
Methods of conducting high school speech and theatre courses, structuring of curriculum, selecting and developing course materials, and methods of evaluation. Prerequisite: Core courses or equivalent.

Spch 382 Survey of Film Styles (4) (on demand)
A genre approach to the styles and types of films which have developed in the cinema. Representative forms such as westerns, comedies, musicals, social dramas, and/or suspense thrillers are examined and evaluated.

Spch 384 Television Production (4) (Fws)
Theory and practice in the production aspects of television. Content includes: message/audience analysis, script preparation, studio and crew management in producing a variety of television formats. Major projects include producing PSA for airing. Prerequisite: Spch 285/MC 285. (Cross-listed as MC 384)

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 453(g) General Semantics (3) (on demand)
Analysis of the limitations and of the effects of verbal habits; application of general semantics principles and techniques.

Spch 469(g) Internship in Speech Communication (3-16) (on demand)

Spch 484 Television Directing (4)
(alternating W/S)
Theory and practice in methods of directing TV talent, blocking cameras and sets, and directing TV crews. Exercises include a variety of TV dramas, talk shows, comedy, music, and instructional television productions. Prerequisite: Spch 285/MC 285 and Spch 384/MC 384.

Spch 486 Techniques of Film Directing (4)
(on demand)
Theory and practice of developing artistic and technical skills in directing motion pictures. Major film making projects are included in class activities. Prerequisite: Spch 281 and Spch 284, or consent of instructor.

Spch 490 Senior Seminar in Speech/Theatre (4) (S)
Capstone course for speech or theatre majors; proposal, completion, and presentation of individualized project; interviewing skills; written exam integrating and applying knowledge from separate courses. Grade "C" or better required for graduation.

Spch 499(g) Topical Workshop (1-4)
(on demand)

Spch 540 Problems in Speech Education (3)
(on demand)
Problems involved in the development of speech communication programs.

THEATRE ARTS COURSES

Spch 126 Dance for the Stage I (4) (F)
A beginning course in dance technique with units in jazz, ballet, tap, and musical theatre forms.

Spch 127 Dance for the Stage II (4) (W)
An intermediate course in dance technique. Prerequisite: Spch 126 or consent of instructor.

Spch 128 Dance for the Stage III (4) (S)
An advanced course in dance technique. Prerequisite: Spch 127 or consent of instructor.

Spch 150 Theatre Practicum (1) (Fws)
Training in the technical phases of theatre production: experience in set construction, painting, properties, backstage organization, light, sound, and costumes. Participation in theatrical production.

Spch 220 Introduction to Theatre (4) (Fw)
Critical analysis of great plays and live theatre performances focusing on the basics of dramatic theory, an appreciation of theatrical styles, and a deeper understanding of dramatic themes.

Spch 221 Theatre in America (4) (S)
Critical analysis of American plays in performance focusing on American dramatic themes, theatre history, and production styles.

Spch 222 Principles of Acting (4) (Fws)
Basic terminology and techniques used by the actor in creating a role for the stage.

Spch 223 Stage Make-Up (3) (alternate years)

Techniques and styles of stage make-up used in stage productions.

Spch 226 Dance for the Stage (4) (on demand)

The theory and practice of basic dance skills used in musical theatre production.

Spch 228 Theatre Arts Management (3) (on demand)

The study of sound fiscal operation, production cost preparation, public relations and promotion, and laws affecting theatre operations.

Spch 232 Scene Study (4) (W)

As a follow-up to Principles of Acting, students in Scene Study will rehearse and perform scenes from the dramatic canon of great plays. The scenework will be performed as an actor's lab with regular feedback from the instructor and fellow classmates. Prerequisite: Spch 222.

Spch 244 Principles of Directing (4) (F)

The foundation course in stage direction, a core requirement for all majors. The theory and practice of directing: casting, blocking, composition, picturization, movement, rehearsal and performance.

Spch 250 Technical Theatre Methods (4) (F)

The theory and practice of working with stage equipment; the methods and procedures of scenery construction, stage rigging, and scene shifting.

Spch 254 Introduction to Stage Design (4) (W)

The fundamentals of designing scenery for the stage: process of design, elements of design, and execution procedure. Prerequisite: 250 or consent of instructor.

Spch 280 History of the Film (4) (F)

A chronological approach to the artistic and technical development of the American motion picture medium. Influential films are viewed and discussed.

Spch 281 Introduction to Film (4) (S)

A critical approach to artistically significant motion pictures and motion picture directors. Analysis of film content, structure, and directorial technique is presented through screenings and discussion.

Spch 282 Film and the Novel (4) (F)

A comparative analysis of major novels with their screen versions. Emphasis is on the aesthetic and interpretive similarities and differences in the two art forms. (Cross-listed as Engl 232)

Spch 283 Film and the Stage (4) (on demand)

A comparative analysis of major dramas with their screen versions. Emphasis is on the aesthetic and interpretive similarities and differences in the two art forms.

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 343)

Spch 324(g) Development of the Drama II (4) (W)

Early native farce, religious drama, and the drama and theatrical innovations of the Renaissance through the 18th century. (Cross-listed as Engl 344)

Spch 326(g) Development of the Drama III (4) (S)

The drama of the modern era, beginning with the 19th century Romantics, viewed as a revolutionary, cultural, political, and artistic force. (Cross-listed as Engl 345)

Spch 327 Musical Theatre History (4) (W)

Musical Theatre productions past and present are examined and critically evaluated. An analysis of the various forms of musicals with an emphasis on the libretto, lyrics, and production elements.

Spch 330(g) Dramatic Production I (1-6) (summer only)

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 (1-6) (summer only)

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) Movement and Voice for the Actor (4) (S)

Instruction in voice through study of breathing and alignment, IPA and applications of IPA to stage dialects. Movement instruction in Alexander Technique, basic stage combat and circus skills: tumbling, juggling, etc. Prerequisite: Spch 232, or consent of instructor.

Spch 333(g) Advanced Movement and Voice for the Actor (4) (F)

Application of voice and movement to scenework. Advanced work in stage dialects. Building upon the foundation of Alexander movement technique, a study of stage movement as it applies to period plays including court dance, bows and curtsies, advanced stage combat forms and pantomime. Prerequisite: Spch 332.

Spch 335 Principles of Choreography (4) (F)

Adaptation of choreographic assignments, in-class critiques, and analyses permit students to evolve a personal, original style appropriate to the non-concert dance form. Prerequisite: Consent of instructor.

Spch 341(g) Creative Dramatics (3) (on demand)

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)

(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) Advanced Directing (4) (W)

Advanced study of techniques of direction through the use of movement, picturization, tempo and script analysis. Prerequisite: Spch 244 or consent of instructor.

Spch 350 Advanced Tech Theatre Methods (4)

(on demand)

Acquiring the basic artistic and technical skills needed for designing scenery for the theatre; practice in theatrical drafting, perspective drawing, rendering, model building and scenery painting techniques. Prerequisite: Spch 254 or consent of instructor.

Spch 351 Scene Design I (4) (on demand)

Explore different types of stage settings: different styles, designing for different types of theatre spaces, and different approaches to the genres of dramatic literature. Prerequisite: Spch 350 or consent of instructor.

Spch 352(g) Stage Lighting (4)

(S alternating years)

The use and capabilities of light in dramatic productions, lighting instruments, control devices and lighting design. Prerequisite: Spch 250 or two quarters of Spch 150.

Spch 382 Survey of Film Styles (4) (on demand)

A genre approach to the styles and types of films which have developed in the cinema. Representative forms such as westerns, comedies, musicals, social dramas, and/or suspense thrillers are examined and evaluated.

Spch 431(g) Acting Styles (4) (W)

Principles and problems in the acting of major historical and theatrical styles. Prerequisite: Spch 333 or consent of instructor.

Spch 432 Advanced Scene Study (4) (S)

An advanced scene study course drawing upon scenes from the classical and avant garde theatre. Prerequisite: Spch 431 or consent of instructor.

Spch 433 Dance Production (2) (S)

The course explores theory and practice in the production aspects of dance. Students in the class will be required to rehearse and perform dances choreographed by faculty or visiting guest artists. Prerequisite: Consent of instructor.

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 438(g) Contemporary Playwrights (4)

(alternate years)

Individual British, American, and continental playwrights; may be elected twice when the reading lists are substantially different.

Spch 444(g) Styles of Directing (4)

Principles and problems in the production of major historical and theatre styles. Prerequisite: Spch 344 or consent of instructor.

Spch 451(g) Scene 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 351 or consent of instructor.

Spch 469 Internship in Theatre (3-16)

(on demand)

Spch 486 Techniques of Film Directing (4)

(on demand)

Theory and practice to develop artistic and technical skills in directing motion pictures. Major film making projects are included in class activities. Prerequisite: Spch 281 and Spch 284, or consent of instructor.

Spch 490 Senior Seminar in Speech/Theatre (4) (S)

Capstone course for speech or theatre majors; proposal, completion, and presentation of individualized project; interviewing skills; written exam integrating and applying knowledge from separate courses. Grade "C" or better required for graduation.

Spch 499(g) Topical Workshop (1-4)

(on demand)

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.

Department of Speech/Language/ Hearing Sciences **Grier 100** **(218) 236-2286**

Chair: Arne D. Teigland

Faculty: Patrick Coppens, Louis J. DeMaio, K. Dale Gronhoyd, Bruce R. Hanson, LaRae A. McGillivray, Annette Skiftun, Marie Swanson

SPEECH/LANGUAGE/HEARING SCIENCES CURRICULUM

Major in Speech, Language, and Hearing Sciences B.S. Degree (Non-Teaching)

The academic programs offered in Speech, Language, and Hearing at Moorhead State University are designed for students who are interested in the normal and disordered processes of human communication. A major in this area is part of the preparation for clinical, teaching, research or service careers in speech pathology, language pathology, audiology, and communication science. The major is also appropriate for those who will pursue careers in hearing conservation, education of the hearing impaired and related areas. Individual courses are appropriate as electives for students with majors in speech communication, elementary education, special education, reading, psychology, sociology, anthropology or health.

To practice as a speech-language pathologist or audiologist, the master's degree is a national requirement. Therefore, the undergraduate and graduate degree programs described here should be viewed as a whole. The process begins during the freshman year in the introductory course and culminates with the completion of the final examination for the master's degree. The undergraduate (B.S.) degree is only the first stage in helping students achieve the entry-level qualifications for this profession. The title of the undergraduate major, Speech/Language/Hearing Science, suggests that it is a preprofessional degree. It is designed to qualify students for admission to professional study at the graduate level at this or other universities.

The graduate (M.S.) major is the professional degree. Its title, Speech-Language Pathology, suggests that it is the clinical degree in this field. Students completing the graduate program are qualified for clinical positions in communication disorders throughout the nation .

Moorhead State University's program is accredited by the American Speech-Language-Hearing Association's Educational Standards Board.

Admission to any graduate program at Moorhead State University is limited to those who qualify by virtue of their undergraduate grade point average, Graduate Record Examination score and recommendations. In addition, department faculty selects applicants for admission to the graduate program based on the number of students for whom the minimum practicum experience requirements of the American Speech-Language-Hearing Association can be provided. Additional details about graduate study may be found in the Graduate Bulletin.

Students who plan to seek clinical positions in schools should complete any additional requirements established by the credentialing authority in the states where they would seek employment.

The curriculum described below is in the process of being approved. New students, but especially transfer students, are encouraged to consult the department for current actual requirements.

Major requirements in Speech/Language/Hearing Sciences (73 credits minimum) (Approval pending)

SLHS 101 Introduction to Speech/Language/Hearing
Sciences

SLHS 201 Phonetics

SLHS 202 Speech Science

SLHS 204 Developmental Psycholinguistics

SLHS 207 Acoustics of Speech and Hearing

SLHS 245 Observation of Clinical Practicum

SLHS 271 Introduction to Audiology

SLHS 321 Articulation and Phonological Disorders

SLHS 322 Language Disorders in Preschool Children

SLHS 341 Clinical Instrumentation

SLHS 343 Clinical Procedures

SLHS 346 Preparation for Clinical Practice

SLHS 347 Introduction to Augmentative and Alternative
Communication

SLHS 372 Audiometry

SLHS 402g Neuroanatomy and Physiology of
Communication

SLHS 421 Voice Disorders

SLHS 424g Fluency Disorders

SLHS 446 Clinical Practicum: Speech-Language

SLHS 448 Program Management in Speech-Language
Pathology

SLHS 473 Rehabilitation Audiology

SLHS 490g Research Methods in Speech/Language/
Hearing Science *(Approval pending)*

Required Courses in Related Fields (12 credits minimum)
(Approval pending)

Math 274 Introduction to Statistics I

Spch 100 Beginning Speech Communication

Engl 286 Practical Writing

or Engl 287 Technical Report Writing

SPEECH/LANGUAGE/HEARING SCIENCES COURSES

SLHS 101 Introduction to Speech/Language/ and Hearing Sciences (3) (FWS)

A study of the basic processes of speech, hearing and language, the development of speech and language in children, and the major speech, hearing and language disorders.

SLHS 201 Phonetics (3) (F)

The production and perception of sounds of English speech; the use of the International Phonetic Alphabet; the application of the principles of phonetic analysis to oral communication. (Same as Spch 251.)

SLHS 202 Speech Science (4) (S)

The basic scientific concepts fundamental to the understanding of speech production and perception with primary emphasis on the anatomy and function of the speech and hearing mechanism.

SLHS 204 Developmental Psycholinguistics (5) (F)

Nature and normal development of cognitive, linguistic and social systems of language in children.

SLHS 207 Acoustics of Speech and Hearing (3) (S)

Basic acoustical principles applied to the generation of human speech sounds, the propagation of such sound waves and their measurement. (Same as Phys 207.)

SLHS 245 Observation of Clinical Practicum (1) (FWS)

Supervised observation of evaluation and management procedures of speech, language and hearing disorders.

SLHS 271 Introduction to Audiology (4) (W)

The study of hearing and hearing disorders.

SLHS 321 Articulation and Phonological Disorders (4) (S)

The nature, etiology, assessment and treatment disorders of articulation and phonological disorders. Prerequisite: SLHS 201 and SLHS 202 or consent of instructor.

SLHS 322 Language Disorders in Preschool Children (4) (W)

Nature, etiology, and clinical management of language disorders in preschool children. Prerequisite: SLHS 204 or consent of instructor.

SLHS 341 Clinical Instrumentation (1) (FS)

A study of the principles, operation and application of clinical instruments (hardware) used in the management of speech, language and hearing disorders.

SLHS 343 Clinical Procedures (3) (W)

Basic defining and recording of communication behavior, development of reporting skills to include lesson plans, report writing and conferring and consulting with clients, parents and related professionals.

SLHS 346 Preparation for Clinical Practicum (2) (FS)

A preparation course for the clinical practicum experience. Direct observation or an involvement with one client or client group throughout the academic quarter. This will include the enhancement of the clinical skills and activities essential to the clinical practicum experience. Prerequisite: SLHS 245 and junior standing.

SLHS 347 Introduction to Augmentative and Alternative Communication (3) (F)

A discussion of the nature and purposes of augmentative and alternative communication (AAC) for non-speaking persons of all ages. Designed to familiarize students with specific components of AAC systems suitable for clients with either congenital or acquired disorders. Exposure to basic assessment and intervention procedures in the clinical setting and overview of assistive technology. Prerequisite: SLHS 204.

SLHS 372 Audiometry (4) (F)

Measurement of hearing; diagnostic variables related to hearing impairment; supervised practice administering hearing tests. Prerequisite: SLHS 271 or consent of instructor.

SLHS 402 (g) Neuroanatomy and Physiology for Communication (3) (W)

An in-depth study of the anatomy and physiology of the central nervous system as it relates to communication processes. Prerequisite: SLHS 202 or consent of instructor.

SLHS 421 Voice Disorders (4) (W)

Study of organic and functional voice disorders; their symptomatology, etiology, assessment, and clinical management. Prerequisite: SLHS 202 or consent of instructor.

SLHS 424(g) Fluency Disorders (4) (F)

A study of the nature and management of fluency disorders. Prerequisite: SLHS 202.

SLHS 444(g) Language and Learning Problems in Children (4) (W)

A detailed coverage of the impact of language processes and language development on school learning problems, including the development of basic academic skills. The course will provide knowledge and basic skills in understanding the significance of language development on special educational interventions with school-aged children. Graduate students in the Department of Speech-Language-Hearing Sciences may not apply this course toward their graduate program. Prerequisites: Ed 214 and SPED 320.

SLHS 446 Clinical Practicum: Speech-Language (1) (FWS)

Supervised clinical experience with children or adults who present speech or language problems; should be repeated once; taken in blocks of 3 credits for a total of 6 quarter hours of credits. Prerequisite: SLHS 245, 321, 322, 341, 343 and consent of the academic advisor.

SLHS 448 Program Management in Speech-Language Pathology (3) (F)

The organization, management and administration of speech-language pathology programs in various clinical settings such as public schools, hospitals and clinics.

SLHS 473 Rehabilitation Audiology (5) (S)

The principles and procedures of auditory training, speech reading, language and speech training for individuals with hearing impairment. Prerequisite: SLHS 271 and SLHS 372 or consent of the instructor.

SLHS 476 Clinical Practicum: Audiology (1) (FWS)

Supervised clinical experience in evaluation or management of children or adults with impaired hearing; may be repeated. Prerequisite: SLHS 245, 372, or 373, and consent of the academic advisor.

SLHS 490(g) Research Methods in Speech/Language/Hearing Sciences (4) (F)

The study and application of research principles and methods in speech-language and hearing sciences. Prerequisite: Math 274 or consent of instructor. (Approval pending)

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 6 credits. Prerequisite: Consent of academic the advisor and project supervisor.

SLHS 499(g) Topical Workshop (1-4)

SLP 501 Research Design in Speech-Language Pathology (3) (W)

Basic methodology of descriptive, experimental and single-case designs for research in speech-language pathology and audiology. Emphasis also on the development of research and report writing. Prerequisite: SLHS 490 or equivalent. (Approval pending)

SLP 502 Research Preparation (1) (WS)

The development of research topics for graduate student research projects or theses. Prerequisite: SLP 501. (Approval pending)

SLP 509 Seminar in Scientific Topics (1-3) (FWS)

Examination of a selected aspect of the scientific bases of communication.

SLP 521 Seminar in Articulation and Phonological Disorders (3) (S)

A critical review of research related to the nature, assessment and treatment of articulatory and phonological disorders.

SLP 523 Seminar in Voice (3) (S)

Advanced study of the pathologies and malfunctions that produce voice defects; laryngectomy and other organic disorders emphasized; evaluation of current therapeutic procedures and pertinent findings.

SLP 524 Seminar in Fluency (3) (F)

A critical review of research related to the nature, etiology and treatment of fluency disorders.

SLP 525 Seminar in Motor Speech Disorders (3) (W)

Definitions and etiologies of apraxia and dysarthrias of speech. Procedures for both differential diagnosis and treatment. Prerequisite: SLHS 202 and 402 or consent of instructor.

SLP 526 Language Development and Disorders in Adolescents (3) (W)

Investigation of normal language development and language disorder in older children and adolescents. Evaluation and intervention strategies for language deficits with emphasis on service delivery models and multicultural issues. Prerequisite: SLHS 204, SLHS 322.

SLP 528 Seminar in Aphasia (3) (F)

Etiology, diagnosis evaluation, and treatment of the aphasic adult patient. Prerequisite: SLHS 402 or consent of instructor.

SLP 540 Seminar in Communication Behavior Management (3) (W)

Procedures for the observation and management of behavior, speech-related anxiety and maintenance of learned behavior. Prerequisite: SLHS 343 or equivalent. (Approval pending)

SLP 541 Seminar in Language Intervention (3) (S)

A critical review of literature related to various child language intervention methodologies and practices.

SLP 542 Augmentative and Alternative Communication (3) (S)

Advanced appraisal techniques for speech, language and related areas as they apply to determining a need for augmentative communication systems; with additional emphasis on selecting appropriate aids and initial programming. Prerequisite: SLHS 347.

SLP 543 Private Agency Practicum: S/L (1) (FWS)

Supervised clinical experience with clients who present speech or language problems. Treatment sessions conducted at private practice facilities.

SLP 544 University Practicum: S/L (1) (FWS)

Supervised clinical experience with clients who present speech or language problems. Treatment sessions conducted in the university Speech-Language-Hearing Clinic.

SLP 545 Hospital Practicum: S/L (1) (FWS)

Supervised clinical experience with clients who present speech or language problems. Treatment sessions conducted in a health care facility.

SLP 546 School Practicum: S/L (1) (FWS)

Supervised clinical experience with clients who present speech or language problems. Treatment sessions conducted in a school setting.

SLP 547 Diagnostic and Appraisal Procedures (4) (F)

The evaluation and use of diagnostic tools; participation in evaluations and preparation of clinical reports. Prerequisite: SLHS 490 or its equivalent.

SLP 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.

SLP 576 Clinical Practicum: Audiology (1) (FWS)

Supervised clinical experience in evaluation or management of children or adults with impaired hearing; may be repeated. Prerequisite: Graduate standing and consent of the academic advisor.

SLP 591 Topical Seminar in Speech, Language Pathology and Audiology (3)

The examination of the literature on a selected topic of current interest.

SLP 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.

SLP 597 Research Project (1-3) (FWS)

Registration only after consultation with major advisor.

SLP 599 Thesis (1-6) (FWS)

Registration only after consultation with major advisor.

**Women's Studies
Weld 221, (218) 236-4686**

Coordinator: Sheila Coghill

WOMEN'S STUDIES CURRICULUM

The minor in Women's Studies provides students an opportunity for interdisciplinary learning related to women in society. Students are expected to interrelate various kinds of knowledge and perspectives from the natural and social sciences, humanities, and education. The minor is particularly appropriate for students preparing for careers in education, law, the ministry, medicine, social service, mass communications, or the pursuit of advanced degrees in Women's Studies at other institutions.

Minor in Women's Studies (24 credits)

Core Courses (12-14 credits)

Hum 310(g) Women's Studies (4)

Psy 220 Psychology of Women (4)

or Soc 335 Women in Medicine (4)

Hist 375 Women in U.S. History (4)

or Engl 246 Women in Literature (4)

or Minority Women Writers (4)

Hum 410(g) Directed Readings in Women's Studies (1-8)

Electives (10-12 credits)

Anth 445(g) Cross-cultural Study of Women (4)

Art 489 Women and Art (4)

Bio 304 Biology of Women (4)
 CRJS 400 Sociology of Rape (4)
 Econ 310 Race and Gender (4)
 Engl 246 Women in Literature or Minority Women Writers (4)
 *Engl 248 Introduction to American Ethnic Literature (4)
 Hist 310 Women in European History (4)
 Hist 375 Women in U.S. History (4)
 Hum 311(g) Special Topics in Women's Studies (3-4)
 Hum 312(g) Women in Humanities (4)
 Hum 410(g) Directed Readings in Women's Studies (1-8)
 Hum 412(g) Seminar in Women's Studies (4)
 MC 425 Women in Media (4)
 MDS 232 Women's Roles and Socialization in 19th and 20th Century America (4)
 Phil 214 Philosophy and Women (4)
 PE 294 Women and Sports (4)
 Pol 430(g) Sex-Based Discrimination (4)
 Psy 481 Women and Work (4)
 Psy 220 Psychology of Women (4)
 Soc 219 Sociology of Sexual Behavior (4)
 Soc 308 Aging in America (4)
 Soc 340 Women and Health (4)
 Soc 333 Sociology of Sex Roles (4)
 Soc 416 Violence in the Family (4)
 Other appropriate courses or seminars are often available as topics listings in cooperating departments.
 * When topic applies to women.

Administration

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 Lois Fisher Director of External Studies and Continuing Education
 Barb Seiler Affirmative Action Officer
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 Lester A. Bakke Director of Computer Services
 Verlee Thies Business Manager
 Mark Rice Principal Accounting Manager
 Ben Blair Personnel Director
 James Aasness Bookstore Manager

Student Affairs

Ronald Kopita Vice President for Student Affairs
 Marv Gerhardson Associate Dean for Student Development
 Kathy Scott Orientation/Student Activities Coordinator
 Abner Arauza Coordinator of Minority Student Affairs
 Gus Claymore Assistant Coordinator of Minority Student Affairs
 Trancey Williams Coordinator of Minority Opportunities
 Francisca Peterson International Student Advisor
 Floyd Brown Director of Admissions
 Claudette Sutton Associate Director of Admissions
 Cliff Schuette Director of Counseling
 Warren Wiese Director of Comstock Memorial Union
 Karen Meland Associate Director of Comstock Memorial Union
 Mary Harrom Business Manager of Comstock Memorial Union
 David Anderson Director of Financial Aid
 Karen Knighton Associate Director of Financial Aid
 Carolyn Zehren Assistant Director of Financial Aid
 Susan Rostvedt Assistant Director of Financial Aid
 Lynne Ebner Director of Health Services
 Michael Pehler Director of Housing and Security
 Mary Bartscher Associate Director of Housing and Security/Programs
 Kim Brosdahl Associate Director of Housing and Security/Operations
 Melvin Schmitz Director of Career and Placement Services
 Gerald Jacobs Associate Director of Career and Placement Services and Coordinator for Internships
 Sonja Rue Associate Director of Career and Placement Services
 Paula Ahles Coordinator of Disabled Student Services
 Katy Wilson Acting Women's Athletic Director
 Ross Fortier Men's Athletic Director

Public Affairs

Ron Matthies Interim Vice President for Public Affairs, and Executive Vice President, MSU Foundation
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 Jan Guida Printing Manager
 Dennis Aune Director of Development
 Betty Gunderson Director of Annual Giving
 James Shipp Alumni Director
 Jill Holsen Assistant Director of International Programs
 Diane Schoenecker Director of Scholarships

FACULTY

Roland Dille, 1963. President and Professor of English. B.A., Ph.D., University of Minnesota.

James Aasness, 1970. Bookstore Manager. B.A., Moorhead State University.

Kerri L. Acheson, 1989. Associate Professor of Business Administration. B.S. Ed., University of North Dakota; M.S., Utah State University; Ph.D., University of So. Calif.

Johnson Afolayan, 1991. Assistant Professor of Secondary Education and Foundations. B.A., M.S., Ed.S., University of Wisconsin - Stout; Ph.D., Iowa State University.

Vijendra K. Agarwal, 1987. Professor of Physics. B.S., Agra University; M.S., Meerut University; Ph.D., Roorkee University.

Paula Ahles, 1990. Disabled Student Services Coordinator. B.S., University of North Dakota; M.S., North Dakota State University.

Earl Alberts, 1985. Chair and Professor, Department of Business Administration. B.S., Morningside College; M.A., University of Nebraska; D.B.A., University of Colorado.

Bryant K. Alexander, 1990. Instructor of Speech Communication and Theatre Arts. B.A., M.S., University of Southwestern Louisiana.

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. A.B., Whittier College; M.A., Ph.D., University of California (Riverside).

Sayel A. Ali, 1988. Assistant Professor of Mathematics. B.Sc., University of Jordan; M.Sc., University of Dundee; Ph.D., The Ohio State University.

Roman Alvarez, 1985. Associate Professor of Languages. B.A., University of Santiago; M.A., Temple University; Ph.D., University of Pennsylvania.

Beth C. Anderson, 1969. Professor of Elementary and Early Childhood Education. B.A., Jamestown College; M.A., Washington State University; Ed.D. University of North Dakota.

David H. Anderson, 1965. Director of Financial Aids and Assistant Professor. B.S., M.A., University of Minnesota; Specialist, Boston University.

James Anderson, 1988. Admissions/Financial Aid Counselor. B.S., M.S., Moorhead State University.

Lawrence R. Anderson, 1966. Professor of Secondary Education and Foundations. B.S., Valley City State College; M.S. in Ed., North Dakota State University; Ph.D., George Peabody College for Teachers.

Helene Anthony, 1990. Assistant Professor of Secondary Education and Foundations. B.A., University of Delaware; M.A., University of Massachusetts, Amherst.

Abner Arauza, 1989. Director of Minority Student Affairs. B.S., Moorhead State University.

Bettina Arnold, 1991. Assistant Professor of Sociology and Anthropology. B.A., Yale University; M.A., Ph.D., Harvard University.

Dennis Aune, 1989. Director of Development. B.S., Moorhead State University; M.A., Mankato State University.

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.

Mary Bader, 1986. Assistant Professor of Accounting. B.S., B.A., University of North Dakota; J.D., Marquette University. CPA.

Lester Bakke, 1972. Director, Computer Services and Data Privacy Officer. B.A., M.S., Moorhead State University.

Marilyn Bakke, 1984. Associate Professor of Accounting and Head Coach, Women's Golf. B.A., M.S., Moorhead State University; D.B.A., Mississippi State University. CPA.

Roland Barden, 1989. Vice President for Academic Affairs. B.S., University of North Dakota; M.S., Ph.D., University of Wisconsin-Madison.

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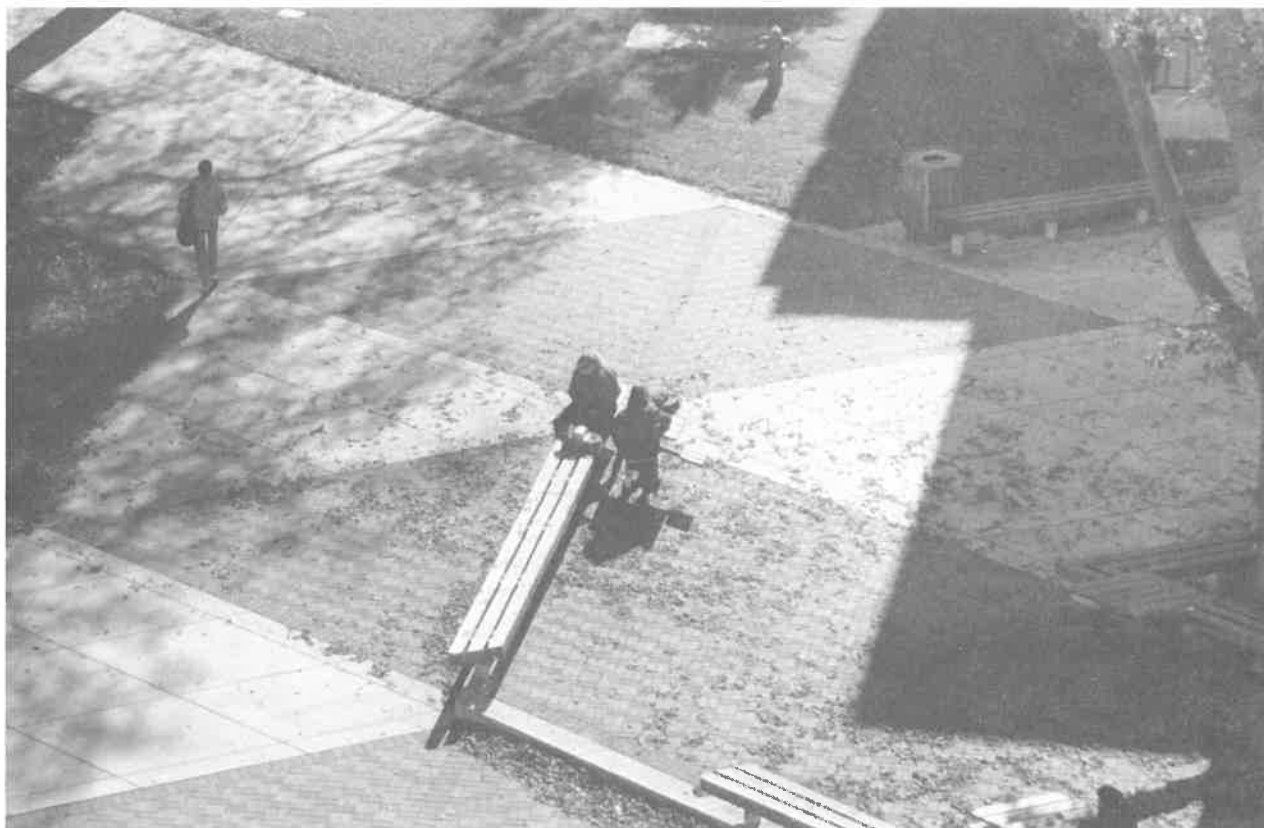
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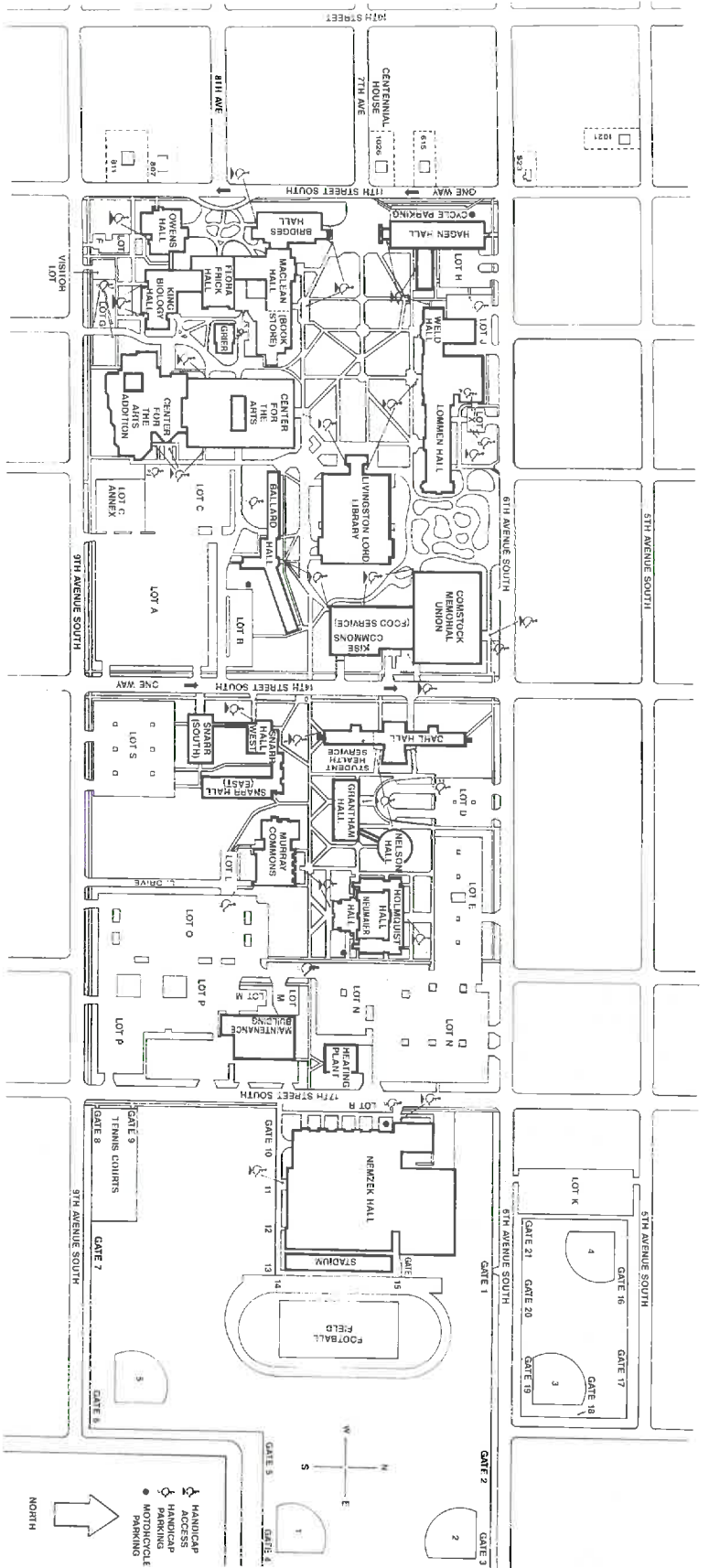
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