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Minnesota State University Moorhead

THE BULLETIN

2006-2007

Undergraduate Catalog

www.mnstate.edu

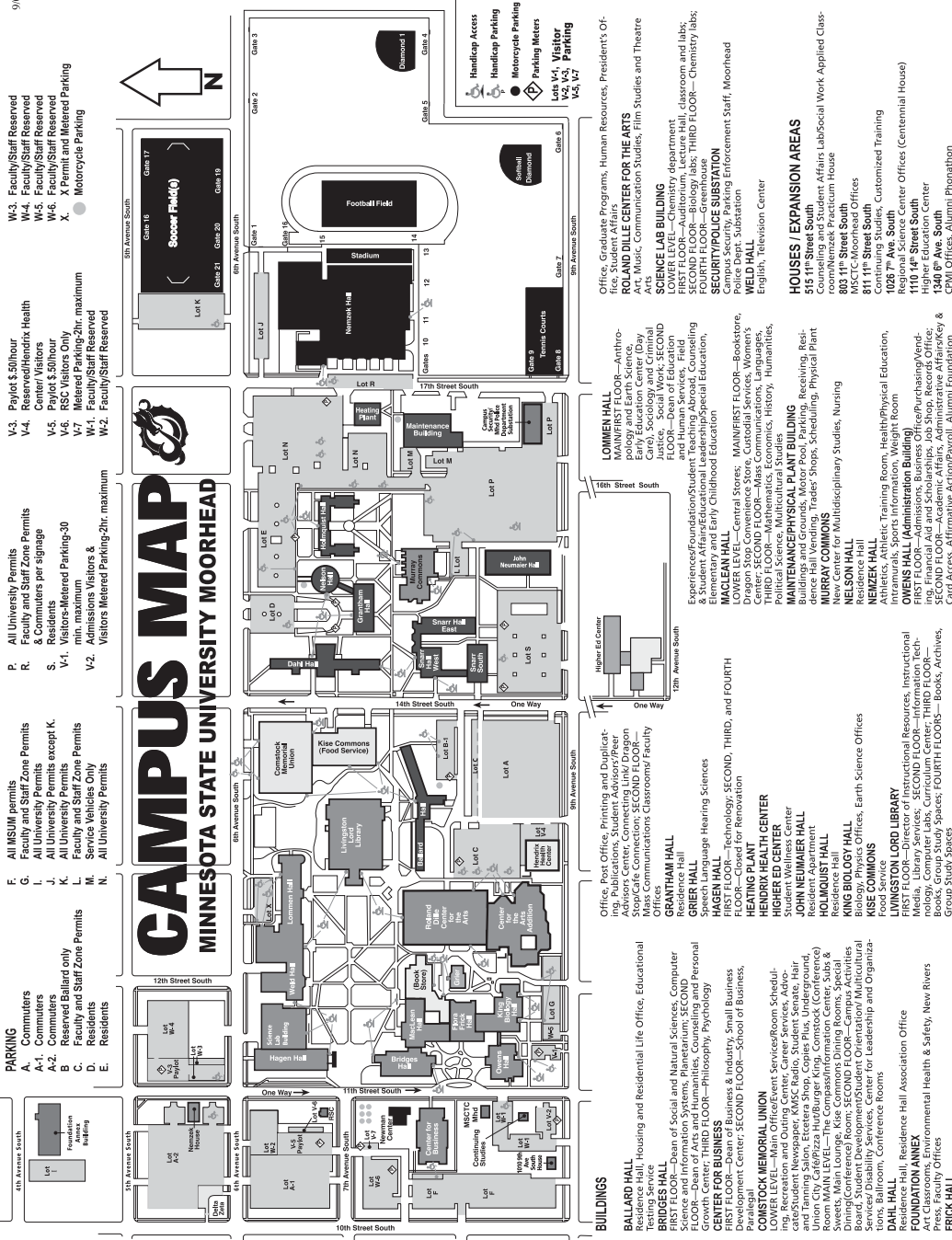
Frequently Called Phone numbers

Area Code 218

Academic Affairs	477.2292
Administrative Affairs	477.2156
Admissions	477.2161
Advising Support Center	477.4318
Bookstore	477.2111
Business Office	477.2221
Career Services	477.2131
Continuing Studies / Customized Training	477.5862
Counseling and Personal Growth Center	477.2227
Financial Aid and Scholarships	477.2251
Health Center	477.2211
Housing and Residential Life	477.2118
Information	477.4000
Records	477.2565
Security	477.2449
Student Affairs	477.2171

**TDD Users calling offices at Minnesota State University Moorhead
without TDD's should contact the Minnesota Relay Service at 1.800.627.3529**





- PARKING**
- A. Commuters
 - B. Faculty and Staff
 - A-2: Commuters
 - B-2: Reserved Ballard only
 - C. Faculty and Staff
 - D. Residents
 - E. Residents

- F. All MSUM permits
- G. Faculty and Staff Zone Permits
- H. All University Permits
- I. All University Permits
- J. All University Permits except K
- K. All University Permits
- L. Faculty and Staff Zone Permits
- M. Service Vehicles Only
- N. All University Permits

- P. All University Permits
- R. Faculty and Staff Zone Permits
- S. Residents
- V-1. Visitors-Metered Parking-30 min. maximum
- V-2. Admissions Visitors & Visitors Metered Parking-2hr. maximum
- V-3. Paylot \$3.50hour
- V-4. Reserved Health
- V-5. Paylot \$3.50hour
- V-6. RSC Visitors Only
- V-7. Metered Parking-2hr. maximum
- W-1. Faculty/Staff Reserved
- W-2. Faculty/Staff Reserved

- W-3. Faculty/Staff Reserved
- W-4. Faculty/Staff Reserved
- W-5. Faculty/Staff Reserved
- W-6. Faculty/Staff Reserved
- X. X Permit and Metered Parking
- Motorcycle Parking

- BUILDINGS**
- BALLARD HALL**—Residence Hall
 - BRIDGES HALL**—Testing Service
 - COMPUTER CENTER**—Department of Computer Science and Information Systems
 - DEAN OF ARTS AND HUMANITIES**—Counseling and Personal Growth Center
 - DEAN OF BUSINESS**—Philosophy, Psychology
 - DEVELOPMENT CENTER**—SECOND FLOOR—Small Business, Paralegal
 - LOWER LEVEL OF MEMORIAL UNION**—Museum, Gift Shop, Recreation and Outing Center, Career Services, Advocates/Student Newspaper, KNSC Radio, Student Senate, Hair Salon
 - UNION CITY**—CAFE/Pizzeria, HUBBARD King, Comstock (Conference Room MAIN LEVEL—The CompassInformation Center, Subs & Snacks, Main Lounge, Kise Commons Dining Rooms, Special Events Room, Student Development) Student Orientation/Multicultural Services/Disability Services, Center for Leadership and Organization, Conference Rooms
 - DAH, HA, HAH**—Residence Hall Association Office
 - FOUNDATION ANNEK**—Art, Classrooms, Environmental Health & Safety, New Rivers Community Offices
 - FRICK HALL**—International Programs/International Students

- GRANTHAM HALL**—Office, Post Office, Printing and Duplication, Admissions Center, Connecting Link/Dragon Stop/Cafe Connection, SECOND FLOOR—Mass Communications Classroom/Faculty Residence Hall
- GRIER HALL**—Speech Language Hearing Sciences
- HENDRIX HEALTH CENTER**—FIRST FLOOR—Technology; SECOND, THIRD, AND FOURTH FLOOR—Closed for Renovation
- HIGHER EDUCATION CENTER**—Student Center
- JOHN NEUMAER HALL**—Resident Apartment
- HOLMQUIST HALL**—Biology, Physics Offices, Earth Science Offices
- KING BIOLOGY HALL**—Biology, Physics Offices, Earth Science Offices
- KISE COMMONS**—Food Service
- LIBRARY**—Library
- LIBRARY**—Overhead Instructional Resources, Instructional Media, Library Services; SECOND FLOOR—Information Technology, Computer Labs, Curriculum Center; THIRD FLOOR—Computer Spas, FOURTH FLOOR—Books, Archives, Group Study spaces

- MACLEAN HALL**—Central Stores; MAIN FIRST FLOOR—Bookstore, Bookstore, Student Center, Student Center; SECOND FLOOR—Mass Communications, Languages, Political Science, Multicultural Studies
- MURRAY COMMONS**—Building and Group Motor Pool, Parking, Receiving, Physical Plant
- NEW CENTER**—Center for Multidisciplinary Studies, Nursing
- NEIZEK HALL**—Athletics, Athletic Training Room, Health/Physical Education, Health/Physical Education, Health/Physical Education
- OWENS HALL (Administration Building)**—FIRST FLOOR—Admissions, Business Offices/Purchasing/Vending, Financial Aid and Scholarships, Job Shop, Records Office; SECOND FLOOR—Code Enforcement, Parking, Admissions & Card Access, Affirmative Action/Payroll, Alumni Foundation

- LOMEN HALL**—MAIN FIRST FLOOR—Anthropology, Early Childhood Education, Early Childhood Education, Mass Communications, Sociology and Criminal Justice, Social Work, Student Center and Human Services, Field Experience/Foundation/Student Teaching/Abroad, Counseling, Elementary and Early Childhood Education
- MACLEAN HALL**—Central Stores; MAIN FIRST FLOOR—Bookstore, Bookstore, Student Center, Student Center; SECOND FLOOR—Mass Communications, Languages, Political Science, Multicultural Studies
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- OWENS HALL (Administration Building)**—FIRST FLOOR—Admissions, Business Offices/Purchasing/Vending, Financial Aid and Scholarships, Job Shop, Records Office; SECOND FLOOR—Code Enforcement, Parking, Admissions & Card Access, Affirmative Action/Payroll, Alumni Foundation
- ROLAND DILLE CENTER FOR THE ARTS**—ACT, Music, Communication Studies, Film Studies and Theatre Arts
- SCIENCE LAB BUILDING**—department
- SCIENCE LAB BUILDING**—FIRST FLOOR—Auditorium, Lecture Hall, classroom and labs; SECOND FLOOR—Biology labs; THIRD FLOOR—Chemistry labs; FOURTH FLOOR—Biology labs
- SECURITY POLICE SUBSTATION**—Campus Security, Parking Enforcement Staff, Moorhead Police Dept. Substation
- WELD HALL**—English, Television Center

- HOUSES / EXPANSION AREAS**
- 515 11th Street South—Applied Classrooms/Practicum House
 - 803 11th Street South—MSCTC-Moorhead Offices
 - 811 11th Street South—MSCTC-Moorhead Offices
 - 1026 7th Ave. South—Customized Training
 - 1110 14th Street South—Regional Science Center Offices (Centennial House)
 - 1110 14th Street South—Higher Education Center
 - 1110 14th Street South—CPWI Offices, Alumni Phonathon

- AMERICAN SOCIETY OF PHYSIOLOGISTS**—Department
- SECURITY POLICE SUBSTATION**—Campus Security, Parking Enforcement Staff, Moorhead Police Dept. Substation
- WELD HALL**—English, Television Center

- LOMEN HALL**—MAIN FIRST FLOOR—Anthropology, Early Childhood Education, Early Childhood Education, Mass Communications, Sociology and Criminal Justice, Social Work, Student Center and Human Services, Field Experience/Foundation/Student Teaching/Abroad, Counseling, Elementary and Early Childhood Education
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- WELD HALL**—English, Television Center

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Accreditation

- **North Central Association**

- **Undergraduate Program**

- Minnesota State University Moorhead is accredited by the Higher Learning Commission and a member of the North Central Association of Colleges and Schools, (see

- www.ncahigherlearningcommission.org, 312-263-0456) to offer undergraduate four-year college programs leading to Baccalaureate degrees. The departments of Educational Leadership, Nursing and Technology have recently been approved to offer online only programs.

- **Graduate Program**

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

- **National Council for Accreditation of Teacher Education**

- Minnesota State University Moorhead 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 Bar Association**

- Minnesota State University Moorhead's program in Paralegal Studies is approved by the American Bar Association.

- **American Chemical Society**

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

- **American Council of Construction Education**

- Minnesota State University Moorhead's degree in Construction Management in the Department of Technology is accredited by the American Council for Construction Education (ACCE).

- **American Speech-Language-Hearing Association**

- Minnesota State University Moorhead's graduate program in Speech-Language Pathology in the department of Speech/Language/Hearing Sciences is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

- **Commission on Accreditation of Athletic Training Programs**

- Minnesota State University Moorhead's Athletic Training Program is accredited by the Commission on Accreditation of Athletic Training Programs.

- **Commission on Collegiate Nursing Education**

- Both the Bachelor of Science in Nursing (BSN) program and the Master of Science (MS) (with a major in Nursing) program are accredited by the Commission on Collegiate Nursing Education. The BSN is accredited as an MSUM program and the MS is accredited as part of the Tri-College University Nursing Consortium (TCU-NC). The TCU-NC consists of Minnesota State University Moorhead, Concordia College and North Dakota State University.

- **Council for the Accreditation of Counseling and Related Educational Programs (CACREP)**

- Minnesota State University Moorhead's graduate program in Counseling and Student Affairs has specialized accreditation for its "Community Counseling" and "Student Affairs Practice in Higher Education" programs of study. The specialized accreditation is granted by CACREP which is an accrediting body recognized by the Council for Higher Education Accreditation.

- **Council on Social Work Education**

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

- **National Association of Industrial Technology**

- Minnesota State University Moorhead's program in Industrial Technology in the Department of Technology is accredited by the National Association of Industrial Technology.

- **National Association of Schools of Art and Design**

- The Minnesota State University Moorhead Department of Art and Design is an accredited institutional member of the National Association of Schools of Art and Design. MSUM offers the Bachelor of Arts, Bachelor of Science, and Bachelor of Fine Arts degrees.

- **National Association of Schools of Music**

- Minnesota State University Moorhead's Music Department is accredited by the National Association of Schools of Music.

Access To Information

Minnesota State University Moorhead makes available or distributes the following information to all students, employees, prospective students and prospective employees:

Academic Policies and Procedures

The University's academic policies may also be found in the Faculty Guide to Resources and Policies and Student Handbook. Information on academic policies and procedures may be obtained at the offices of Academic Affairs, Student Affairs, Admissions, Records, and Office of Scholarship and Financial Aid.

Campus Security Report

MSUM's Annual Campus Crime Report is available on the Internet at www.mnstate.edu/security or through the University's Web Page at www.mnstate.edu under the Prospective Students, Current Students, Alumni and Friends, and Faculty and Staff sections.

The Report contains

- statistics for the previous three years of crimes reported on campus; in buildings or property owned or controlled by the University; and on public property within, or immediately adjacent to, the campus and reported to the University and/or the Clay County Sheriff's Department or the Moorhead Police Department,
- crime prevention tips and campus safety programs,
- policies and procedures concerning safety and security on the campus of Minnesota State University Moorhead including information required by the Student Right To Know, the Jacob Wetterling Act, Megan's Law, the Violent Crime and Control Law Enforcement Act of 1994, and the Drug Free Schools and Campuses Act.

If you are unable to access this Report and wish a printed copy, or have other concerns about the Report, please contact the Director of Security, Minnesota State University Moorhead, Moorhead, MN 56563 or call (218) 477-5869.

Emergency Cancellation

Classes/programs are subject to cancellation or changes in the event of an emergency.

Non-Discrimination Statement

Minnesota State University Moorhead is committed to a policy of nondiscrimination in employment & education opportunity and is a member of the Minnesota State Colleges and Universities System. No person shall be discriminated against in the terms and conditions of employment, personnel practices, or access to and participation in, programs, services, and activities with regard to

race, sex, color, creed, religion, age, national origin, disability, marital status, status with regard to public assistance, sexual orientation, or membership or activity in a local commission as defined by law. Inquiries regarding compliance should be referred to the Affirmative Action Officer/Title IX Coordinator, Owens 214B, 218.477.2229 (Voice). This information will be made available in alternate format, such as Braille, large print or audio cassette tape, upon request by contacting Disability Services at 218.477.5859 (Voice) or 1.800.627.3529 (MRS/TTY).

MSUM Student Alcohol and Other Drug Policy

General Philosophy Statement:

Minnesota State University Moorhead recognizes that the misuse of alcohol and other drugs is a serious problem in our society and our community. This University seeks to create a campus environment which promotes healthy and responsible living that is conducive to the intellectual and personal development of students. The University is committed to establishing and enforcing clear campus policies regarding the use of alcohol and other drugs.

Minnesota State University Moorhead complies with and supports the Minnesota State Colleges and University Board of Trustees policy governing alcohol and other drugs on campus, the Drug Free Schools and Community Act, the Drug Free Workplace Act, the Campus Security Act and Minnesota State law. Refer to the Student Handbook for a detailed version of the policy.

Drug Free Workplace and Schools

Minnesota State University Moorhead provides information regarding University policies for alcohol and drug use on the campus in the class schedule and the Annual Campus Crime Report. This information is provided in compliance with the Drug Free Workplace Act of 1988 and the Drug Free Schools and Communities Act Amendments of 1989. The report includes

- campus policies regarding alcohol and drug use
- campus sanctions for possession/consumption of alcohol or illicit drugs
- legal penalties for possession/consumption of alcohol or illicit drugs
- health risks associated with use of illicit drugs and alcohol

Additional copies of the Drug Free Workplace information may be obtained from the Campus Security Office or by going to the Security web page at www.mnstate.edu/security.

Equity in Athletics Disclosure Act Report

The purpose of this information is to disclose athletic participation rates and financial data related to athletics. The report is available from the offices of Admissions and Athletics.

Family Education Rights and Privacy Act (FERPA)

The purpose of the Family Education Rights and Privacy Act is to afford certain rights to students concerning their education records. The primary rights afforded are the right to inspect and review the education records, the right to seek to have the records corrected, and the right to have some control over the disclosure of information from the records. The FERPA policy is included in the Student Handbook and additional information is available from the Records Office, and the website (www.mnstate.edu/records/ferpa_info).

Under State and Federal law, you may withhold either or both of the following categories of information from public use by reporting to the Records Office no later than the 45th class day of each semester. **Category I:** the student's name, local and permanent (hometown) address, e-mail address, telephone number; **Category II:** major and minor fields of study, class level, dates of enrollment, full-time/part-time status, awards, honor (including Dean's list), degree(s) conferred (including dates), previous educational institution(s) and dates attended, photographs taken and maintained by the University for various purposes, past and present participation in officially recognized activities and sports, and height and weight of athletes. Because the entire category will be withheld in all circumstances, you are cautioned to consider any possible inconvenience. If Category I is withheld, mail will not be forwarded.

If students do not want their public information printed in the MSUM Directory, they must inform the Records Office by the tenth class day of the Fall term.

Financial Aid

The purpose of financial aid is to assist students with college-related expenses. Financial aid and scholarship information is available at the Office of Scholarship and Financial Aid and the website: www.mnstate.edu/finaid. Information concerning financial aid policies is included in the Student Handbook.

Student Right to Know Report

The purpose of this information is to disclose annual student completion and graduation rates, including graduation rates for student athletes. This report is available at the offices of Admissions and Athletics.

Public Information or Directory Information includes:

- Name
- Local and Permanent Address
- e-mail address
- Phone numbers
- Major and minor
- Class level
- Dates of enrollment
- Full-time/part-time status
- Degrees, Honors and Awards
- Past and present participation in sports and activities
- Height and weight of athletes
- Photographs taken and maintained by the university for various purposes (excluding pictures taken for photo ID cards).



Introduction

Minnesota State University Moorhead, with an enrollment of more than 7600 full- and part-time students, offers 69 undergraduate majors with 90 different emphases and options, and 16 pre-professional studies programs, and 15 graduate degree programs. Included in our majors are 32 areas of teacher licensure preparation. Our professional programs are grounded in the liberal arts, designed to provide a broad base of knowledge and cultural themes. 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 Minnesota State University Moorhead is to foster excellence in teaching and learning. The University strives to provide an educational environment that supports intellectual development, that welcomes diversity and that develops the skills and talents of women and men so that they have the capacity to live usefully, act responsibly and be learners all their lives. The academic programs at the University are founded upon a common liberal studies experience and emphasize developing the unique talents of each person. The University provides baccalaureate-level programs in the liberal arts, natural and social sciences, teacher education, business and technology, the fine arts, and professional areas. It provides selected graduate programs in response to regional needs.

The University encourages scholarly and creative endeavors that promote a commitment by faculty and students to their disciplines, to continuing professional development, and to excellence in learning.

The University enhances the quality of life of the region with the professional, cultural, and recreational services offered by its students, faculty and staff.

History

Minnesota State University Moorhead's institutional life began in 1887 when, two years after a bill calling for its establishment was approved by the Minnesota legislature, funds were appropriated for the construction of campus buildings. Moorhead Normal School was built on land deeded to the city by the bill's author, S. G. Comstock, a former Clay County Attorney and, later, an executive with James J. Hill's Great Northern Railroad. The campus opened for classes under its first president, Livingston Lord, in August of 1888.

Moorhead Normal School was Minnesota's fourth such institution, charged with the education of those who would teach in the area's rural schoolhouses. Students graduated from these normal schools after

two years, with a license to teach grades K (or 1) through 8. By the second decade of the 1900s, the demand for better-educated teachers, together with the increased numbers of students attending high school, was the motive force that prompted the development of a four-year college curriculum. This progress was marked by the school's first name change, to Moorhead State Teachers College, in April of 1921.

In late April-early May 1957, the Minnesota state legislature approved another name change, bringing into existence Moorhead State College. This change reflected the institution's "increasing diversity and breadth of purpose" (graduate programs began in 1953), and also came at a time when the campus was going through something of a construction "boomlet." Over the next 18 years, the campus added 11 new buildings and numerous new programs. The 18 years of Moorhead State College also saw the establishment of that unique educational resource, the Tri-College University.

On August 1, 1975, a ceremony was held on campus to mark the renaming of the college to Moorhead State University. All other Minnesota State Colleges were also transformed into state universities at the same time. The time of this change was surrounded by the continued growth of the University student body, a growth mirrored by the number of majors offered, which rose to more than 90 (the University currently offers more than 140 majors, including emphases and options).

In 1998, the Minnesota State Colleges and Universities Board of Trustees approved a policy authorizing the seven state universities to change their names if they wished to do so. Accordingly, after consultation with students, faculty, staff, and alumni, MSU President Roland Barden requested of the MnSCU Board the campus's fifth name change to Minnesota State University Moorhead. The change was approved and effective July 1, 2000.

The Campus

Most of the 28 major buildings on the 119-acre campus have been constructed since 1957, including the new Science Laboratory Building which opened fall semester 2004. Other campus buildings include six residence halls and one apartment facility, the Livingston Lord Library, Comstock Memorial (Student) Union, Kise Common food service, the Regional Science Center, Hendrix Health Center, Security/Police Substation, Foundation Annex, Higher Education Center, 11 classroom buildings, the Nemzek Hall complex for men's and women's physical education, health and athletics, and Owens Hall administration building.

The Faculty

There are more than 320 members of Minnesota State University Moorhead's instructional faculty. More than 73% of them hold the highest degree in their fields. Class sizes average slightly less than 25 and approximately 72% of the regular undergraduate classes at MSUM have enrollments below 30 students.

Student Enrollment and Retention

Fall Semester enrollment was 7,648 in 2005. This number includes 1,717 students living in campus residence halls, 6,317 full-time students and 1,331 part-time students.

Each fall for the past five years, an average of 1,200 new freshmen and 700 new transfer students have entered the University to enroll in degree programs or begin curricula that may eventually be completed at other institutions.

For information about the academic progress of students and the number who complete degrees, consult the Records Office, (218) 477-2565.

The Community

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

The character of this metropolitan community of more than 174,000 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. Fargo-Moorhead was named an All-American City in 2000.



Academic Programs

Baccalaureate Degrees

The four-year degrees available from Minnesota State University Moorhead 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 120 or 128 credits of college courses and includes 45 credits in Liberal Studies, from 32-64 credits in a major area, and the remainder in electives. While no minor is required, students may choose from more than 60 possible minor programs. Information about Liberal Studies and Dragon Core requirements 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 and their degree area and any emphasis include:

Accounting (BS)

American Studies (BA)

American Multicultural Studies (BA)

- African American Studies
- American Indian Studies
- Chicano/Latino Studies

Anthropology (BA)

- Archaeology
- Cultural Anthropology

Art (BA) (BFA)

- Art History (BA only)
- Ceramics
- Drawing
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture

Athletic Training (BS)

Biology (BA)

- Biochemistry and Biotechnology
- Ecology and Evolutionary Biology
- Health and Medical Sciences

Business Administration (BS)

Chemistry (BA, BS)

- Biological Chemistry
- Biochemistry and Biotechnology
- Chemical Physics
- Computational Chemistry
- Liberal Arts Chemistry
- Mathematical Chemistry

Communication Studies (BA)

Community Health (BS)

Computer Information Systems (BS)

Computer Science (BS)

Construction Management (BS)

Criminal Justice (BA)

East Asian Studies (BA)

- Business
- Humanities
- Language and Culture

Economics (BA)

- Business Economics

English (BA)

- Literature
- Writing

English/Mass Communications (BA)

Exercise Science (BS)

Film Studies (BA)

- Film Production
- Film History and Criticism

Finance (BS)

Geosciences (BS)

- Geology
- Geoarchaeology
- Geographical Sciences

Gerontology (BA)

- Anthropology
- Biology
- Economics
- Health
- Health Services Administration
- Political Science
- Psychology
- Social Work
- Sociology

Graphic Communications (BS)

- Digital Design and Production
- Multimedia Development

Health Services Administration (BS)

- Long Term Care Administration

History (BA)

Individualized Major (BA, BS)

Industrial Technology (BS)

- Industrial Distribution
- Industrial Management

International Business (BS)

International Studies (BA)

- Development
- Diplomacy

Languages (BA)

Legal Studies (BA)

- American Legal System
- Economics and Business
- History
- Human Rights
- Philosophy
- Sociology and Criminal Justice

Management (BS)

Marketing (BS)

Mass Communications (BS)

- Advertising
- Broadcast Journalism
- Integrated Advertising and Public Relations
- Online Journalism
- Photojournalism
- Print Journalism
- Public Relations

Mathematics (BA, BS)

- Actuarial Science
- Computation

Medical Technology (BS)

Music (BA)

Music Industry (BM)

- Music Business
- Computer Music
- Digital Imaging/Audio
- Film/Video Music

Music Performance (BM)

- Composition
- Keyboard
- Jazz and Studio Music
- Voice
- Wind, String, or Percussion Instrument

Nursing (BSN)

Operations Management (BS)

Paralegal (BS)

- Civil Litigation
- Commercial Law
- Criminal Litigation
- Probate/Tax

Philosophy (BA)

Physical Education (BA, BS)

Physics (BS)

- Physics with Business

Political Science (BA)

Psychology (BA)

Social Work (BSW)

Sociology (BA)

Spanish (BA)

Speech/Language/Hearing Science (BS)

- Pre-audiology

Theatre Arts (BA)

- Acting
- Directing
- Technical Theatre

University Studies (BS)

Women's Studies (BA)

- *designates Emphases or Options*

Teacher Preparation

Bachelor of Science degrees with teaching licensure are available in the following areas (128 credit minimum):

Art Education

- Art History
- Ceramics
- Drawing
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture

Chemistry Education

Early Childhood Education

Earth Science Education

Elementary Education

- Preprimary
- Mathematics
- Science
- Social Studies
- Communication Arts and Literature
- World Languages: Spanish

English Education

Health Education

Life Science Education

Mathematics Education

Music Education

- Instrumental
- Vocal

Physical Education

Physics Education

Social Studies Education

Spanish Education

Special Education

- Developmental Disabilities
- Early Childhood Special Education
- Emotional/Behavioral Disorders
- Specific Learning Disabilities

- *designates Emphases or Options available in licensure area*

Bachelor of Fine Arts

This degree is offered as a professional program in the visual arts and is normally a five-year program (132 credit minimum). See *Art and Design Department*.

Certificate Programs

Certificates are awarded for successful completion of a specialized academic program of study which certifies specific knowledge and/or professional skills in a specialized area of knowledge or practice.

Graduate certificates are awarded for successful completion of a program to certify knowledge and/or professional skills in a specialized advanced area of knowledge or practice.

Undergraduate

- E-Business
- Middle School Education
- Preprimary Education
- Publishing
- Reading
- Special Education
- Teaching and Learning with Technology

Graduate

- Children's and Young Adult Literature
- Literacy Instruction
- Publishing
- Teaching and Learning with Technology

School of Business

Students interested in pursuing a business field may choose from School of Business majors in Accounting, Business Administration, Finance, International Business, Management, and Marketing. Students must be admitted to the School of Business before they may enroll in most upper-level School of Business courses. Once a student is admitted to the School of Business, the student may register for upper-level School of Business courses and pursue a School of Business major. See *Business* section of this *Bulletin* for further details on the School of Business admission process.

Pre-Professional Studies

Pre-professional programs in combination with a broad liberal studies education are ideal preparation for the advanced specialized training required for many professions. MSUM departments offer specific pre-professional programs and advising in the following areas. See these headings in the *Curricula* section of this *Bulletin* for additional information.

- Agriculture*
- Architecture*
- Engineering*
- Forestry
- Health Professions
 - Chiropractic
 - Dentistry
 - Medicine
 - Mortuary Science
 - Occupational Therapy
 - Optometry
 - Pharmacy*
 - Physical Therapy
 - Physician's Assistant
 - Respiratory Care
 - Veterinary Science
- Wildlife Management*

* designates "Covered Programs" available through TCU.

Dual Degree Programs with the University of Minnesota

The Departments of Chemistry, Physics, and Technology at Minnesota State University Moorhead, in cooperation with the Institute of Technology at the University of Minnesota, have established a Dual Degree Program. The Dual Degree Program allows students to enroll in a prescribed set of courses at MSUM and after three years, transfer to the Institute of Technology at the University of Minnesota. Upon completion of the credits to earn the B.S. Degree in Chemical Engineering at the University of Minnesota, students would also be granted a B.S. Degree in Chemistry at MSUM. Another track allows students to complete B.S. Degrees in Civil, Mechanical, or Electrical Engineering at the University of Minnesota, and upon completion of one of those engineering specializations, students will be granted the B.S. Degree in Physics at MSUM.

Students enrolled in the Dual Degree Program are guaranteed admission to the Institute of Technology with a significantly lower minimum GPA than those transferring from other programs. The University of Minnesota waives the general education requirements for Dual Degree Program students who have completed MSUM's Liberal Studies program. International students enrolled in the Dual Degree Program pay one and a half times the University of Minnesota in-state tuition upon transfer to the Institute of Technology.

For more information about the dual degree opportunities at MSUM, please contact the departments of Chemistry, Physics, or Technology.

2+2 Technical Transfer Program

The Technology Department offers a 2+2 transfer program for students earning an AS or AAS degree in a technical field. This B.S. degree program is designed to allow most transfer students in Operations Management to graduate with two additional years of study. Students complete the Operations Management core, plus courses to satisfy the Liberal Studies and graduation requirements. They then earn a B.S. Degree in Operations Management.

MSUM's 2+2 Operations Management program was the first such program accredited by the National Association of Industrial Technology. Articulation agreements are in place for nearly 400 technical programs at most of the technical, community, and co-located colleges in the three-state area.

For more information, contact the Technology Department, (218) 477-2104.

Two-Year Associate Degree

Minnesota State University Moorhead offers the two-year Associate in Arts (A.A.). This degree requires completion of the Liberal Studies requirement and a total of 64 credits and is so designed that students may continue to study for a baccalaureate degree should educational plans change. See the *Associate Degree* section of this **Bulletin** for additional information. (page 56)

Graduate Studies

Graduate students at Minnesota State University Moorhead may earn the Master of Arts (MA) in Music, Master of Fine Arts (MFA) in Creative Writing, Master of Liberal Arts (MLA), Master of Science (MS), or Specialist (SPEC) degree. Master of Science programs are available in: Counseling and Student Affairs, Curriculum and Instruction in Education, Educational Leadership, Music Education, Nursing, Reading, School Psychology, Special Education, Speech-Language Pathology, and Public, Human Service, and Health Administration. Specialist programs are available in Educational Leadership and School Psychology. Graduate Certificates are also available in Literacy Instruction, Literature for Children and Young Adults, Publishing, and Teaching and Learning with Technology. Complete information for graduate programs and certificates is provided in a separate **Graduate Bulletin** or on the graduate website at www.mnstate.edu/graduate.

Questions related to graduate education should be directed to the particular program of interest or the Graduate Studies Office at (218) 477-2344.

Teaching License Programs

Many enroll at Minnesota State University Moorhead in programs that will provide the academic requirements for Minnesota licensure in various fields of education. Upon completing one of these programs, students should apply for licensure through the Records Office. If the license program is combined with study for a postgraduate degree, students must meet admission requirements established by the Office of Graduate Studies. Complete information on specific programs is provided in the *Curricula* section of this **Bulletin**. Questions should be directed to specific departments.

Those who hold baccalaureate degrees without a teaching license may earn a Bachelor of Science degree from Minnesota State University Moorhead or complete the academic requirements for licensure by following procedures in the Teacher Education section of this **Bulletin**. *Requirements are subject to change.*

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 coursework for certification.

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 Minnesota State University Moorhead:

Developmental/Adapted Physical Education
Developmental Disabilities
Early Childhood Special Education
Emotional/Behavioral Disorders
English as a Second Language
Kindergarten
Middle School
Preprimary
School Psychologist
School Social Worker I
Specific Learning Disabilities
Speech

Because of variations in specific requirements for each license, candidates should first contact the appropriate university department for information and continue to work closely with an advisor.

State University Common Market

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

- Students secure a Common Market passport application from the Records Office, list preferred courses with the signed approval of the faculty advisor, and return the passport application to the Registrar.
- Eligibility is limited to undergraduate students with sophomore standing and above with cumulative grade point averages of at least 2.0, and participation is limited to one semester 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.

- The student must request an official transcript be sent back to MSUM after the grades are recorded.
- Tuition and fees are paid to the host institution.

Tri-College University

MSUM 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, MSUM students may take one course per term if that course is not offered at MSUM. No limits are placed on the number of courses MSUM students can take at NDSU. At NDSU, students may take as many courses each term as needed to satisfy Covered Programs.

Metropolitan Area Transit offers regular bus service among the three campuses. Reciprocal parking privileges are also available. 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 coordinates and sponsors the Graduate Nursing Program, a Career Fair, an Institute dedicated to flood mitigation research and education outreach, and other programs relating to public policy issues and civic engagement.

Reserve Officers Training Corps (ROTC)

The Reserve Officers Training Corps program at NDSU is voluntary and is open to both male and female students and available through the Tri-College program. The program consists of Army and Air Force ROTC. Activities are conducted under separate departments and students may elect either Army (Department of Military Science) or Air Force (Department of Aerospace Studies) ROTC.

The first two years of the regular four-year course of ROTC at NDSU are designated as the Basic Course for Army ROTC and General Military Course for Air Force ROTC. Students participating in the basic or general course incur no military obligation or commitment.

The last two years of Army ROTC are designated as the Advanced Course. The last two years of Air Force ROTC are designated as the Professional Officer Course (POC). Qualified students may apply for and be accepted in either of these courses with a commission as Second Lieutenant in the United States Army or Air Force as the objective. The Army ROTC program also offers commissions in the Army National Guard or Reserves.

Military uniforms, textbooks, and equipment are furnished without charge to all ROTC students. Advanced students receive a tax-free government subsistence up to \$4,000 for each academic year that they are enrolled in the advanced ROTC program.

ROTC two-, three-, and four-year scholarships may be awarded to students who meet established criteria. Each scholarship provides for tuition, fees, and help toward the purchase of supplies in addition to the \$4,000 subsistence for each academic year that the scholarship is in effect.

If interested in either the Army or Air Force ROTC programs through Minnesota State University Moorhead, see the Records Office for information on Tri-College registration. Information is also available by contacting the Department of Aerospace Studies (Air Force ROTC) at (701) 231-7949, Room 101, or Department of Military Science (Army ROTC) at 1-800-798-7575 or (701) 231-7575, by visiting Room 103 in the Bentson/Bunker Fieldhouse on the North Dakota State University campus, Fargo, North Dakota, or by visiting the website at www.tri-armyrotc.com.

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 48 credits of which 18 to 28 credits come from one department or rubric. The remaining course work may be in any rubric or field, but must contribute to the overall plan for the individualized major. Twenty-four of the 48 credits in the major must be 300- and 400-level courses. No more than 16 previously completed credits should be included in the plan for this type of major. Students must comply with all other graduation requirements as listed in the Academic Information section of this *Bulletin*.

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 in the Center for Business at (218) 477-4649.

University Studies Major

The Bachelor of Science in University Studies is intended to allow a student who has completed most of the requirements of a major but has been unsuccessful in some required portion of an approved program to complete a degree in a timely manner. It is also an option for students wishing to complete a generalist degree.

The major must include the following: 36 credits of a partial major program or rubric, 21 additional credits from a single different rubric or area of concentration, and a 2.0 GPA in both segments. This major may be declared as late as the semester prior to graduation, but not before the student has attained junior standing.

For further information, contact the University Studies advisor in the Center for Business at (218) 477-4649.

Corrick Center for General Education

Established in 1972, formerly the New Center for Multidisciplinary Studies (MDS) is an academic department which offers an alternative-entry, liberal studies program for freshmen and sophomores. Students selected for the program demonstrate potential to succeed in college but may not meet MSUM's standard admissions criteria and would benefit from a non-traditional approach to beginning their university studies.

The Center's academic program is integrated into the overall MSUM learning community. Students entering through this program will take classes in the Center as well as in other academic departments. All classes listed 100 or above count toward graduation. While in the Center, students may also start taking classes in their major area. Most students will transfer into their major during their third semester at MSUM.

Continuing Studies

Non-traditional, part-time adult students and students who cannot take all of their classes during the regular daytime course schedule may choose to utilize the services of Continuing Studies. Continuing Studies advisors can help bridge the barriers and hurdles that sometimes hamper students who have off-campus responsibilities to handle while they attend college. Advisors assist non-traditional students who are unable to consistently attend conventional daytime classes develop an adaptable plan for completing a bachelor's degree. Many students are not usually on campus during regular business hours, and, because of this, services are designed to provide help with some of these non-academic barriers. Options for these students include evening, Saturday, and off-campus classes, packaged (self-study) courses, online courses, and some daytime classes. Continuing Studies advisors understand that dropping in to see an advisor can be difficult and do much of the advising by mail, e-mail, and telephone.

Admission requirements and degree requirements are the same for all Minnesota State University Moorhead students, both traditional and non-traditional. Call (218) 477-5837 for more information.

National Student Exchange

Minnesota State University Moorhead holds membership in the National Student Exchange, a cooperative relationship among more than 180 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. MSUM students have recently been placed at California State University-San Bernardino, North Carolina State University, University of Oregon, University of Alaska, University of Northern Colorado, University of Guam, and the University of Hawaii. The largest single benefit of the NSE is the privilege of paying tuition at the in-state rather than out-of-state rates.

Students pursuing a professional/licensure degree need to consult with their advisor and plan their program carefully well before enrolling in National Student Exchange. Students wishing to participate in the exchange for the following year should have a 2.50 GPA and meet a February 1 deadline. Contact the NSE Coordinator, Owens 206, for more information at (218) 477-2171, or by visiting the website at www.mnstate.edu/stdntaff/nse.htm.

Academic Service Learning

Academic Service Learning (ASL) is a teaching/learning strategy allowing students to systematically apply course material in community based projects. Through ASL projects, students integrate theory with practice, reflect on their roles as citizens in a democracy, and provide meaningful service to others. The "academic" component of service learning requires the connection between course curriculum and community service. Service experiences take on new meaning when students not only summarize their experience but also reflect upon how the work itself connects to course material and objectives. ASL has been integrated in disciplines across the MSUM campus including Communication Studies, Accounting, Education, Music, Nursing, Sociology, and Social Work.

Since 1995, the Academic Service Learning Center at MSUM has been an important source of support for faculty and students engaging in ASL projects. The ASL Center staff are responsible for preparing and updating an agency list of community organizations and their needs, overseeing the assessment of ASL across the MSUM campus, overseeing the assessment of outcomes associated with ASL projects, facilitating placement of students at service sites, and addressing faculty and student questions and problems.

Internship

An internship is a supervised work experience for up to 12 university credits. The objective 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. To take an internship for credit at Minnesota State University Moorhead (MSUM), a student must hold at least junior status. A variety of internships are available in local, state and federal government agencies, public service organizations, and private business. Hundreds of internships are listed each year on the MSUM Career Services web site www.mnstate.edu/career. Select *Internships* on the navigation bar to find the following links:

- Internship Listings
- Student Internship Resources – Why Serve an Internship, University Internship Policy, Departmental Internship Coordinators...and more.

Under *Internship Listings*, you will find internship opportunities listed by the semester in which the employers wish to have the interns work. Links also are provided for specific majors, career interest areas and localities:

- Fargo-Moorhead internships
- Minnesota (INTERNpost) and national internship sites
- General and specialized internships
- International internships
- Washington, D.C. internships.

Students who wish to serve an internship for university credit must meet with the Internship Coordinator in the academic department of their choice. Many of the departmental internship coordinators receive internship listings that are not posted on the MSUM Career Services web site. Departmental Internship Coordinators are the contacts who will assist in planning an internship experience that will enhance professional growth and meet academic expectations. See the *Academic Information* section of this *Bulletin* or Internship in the Index for additional Internship Policy information.

General questions regarding internships—when and how to apply, résumé/letter preparation, finding leads through career/job fairs and through use of directories and the Internet— can be answered by the Internship Coordinator in Career Services. Call (218) 477-2131 for an appointment. Serving an internship is one way to gain related experience to strengthen a competitive edge in the job market following graduation.

International Study Opportunities

The Office of International Programs coordinates a variety of opportunities for students to study abroad. Detailed planning is essential to ensure a successful experience. Students must consult with their faculty advisors if they wish to receive credit toward their major or minor. Financial Aid may be applicable toward these study programs.

In addition to semester and year-long study, faculty in various departments organize one-, two-, or three-week study tours for credit. Check with the Office of International Programs for details.

Cuernavaca: Pay MSUM tuition and spend a semester studying language and culture at Universidad International (UNINTER) in Cuernavaca, Mexico. Flexible application deadlines and GPA requirements. It is recommended that applicants have completed 4 semesters of Spanish language at the time of the program, or have an equivalent level of speaking ability.

Eurospring: Students may earn 12 credits applicable to Liberal Studies (or other areas by arrangement) by studying in Oxford, England, for five weeks, and participating in a three-week tour of centers of Western civilization on the European continent. Eurospring is offered annually in the spring. A 2.25

GPA is required and students must be in sophomore standing to apply. Students pursuing a professional/licensure degree need to consult with their advisor and plan their program carefully well before applying.

Kanda, Nagoya Gakuin and Kanto Gakuin:

Students with strong Japanese language skills and an interest in being fully immersed in the culture are encouraged to select an exchange at Kanda University, Nagoya Gakuin University, or Kanto Gakuin, Japan. Japanese government scholarships may be available. For more information, contact the Department of Languages and Cultures or the Office of International Programs.

Keele: A one-for-one semester or year-long exchange opportunity is available at this attractive, campus-based university in the pottery-producing area of central England. Many majors are available. A 2.75 GPA is required.

Lincoln: Students in mass communications may spend spring semester at the University of Lincoln in England on a one-for-one exchange. Students in graphic art and design are also encouraged to explore this option for study abroad. Eligibility requires sophomore standing, a minimum GPA of 2.5 and strong recommendations. For more information, contact the Department of Mass Communications, Department of Art and Design, or the Office of International Programs.

Nankai: Students may study Chinese language and culture at Nankai University, Tianjin, Peoples' Republic of China, for a full academic year or a semester. A GPA of 3.0 and previous language study are recommended. Contact the Department of Languages and Cultures or the Office of International Programs for further information.

Oxford: MSUM 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 fall or spring semester, earning credits awarded by MSUM applicable to selected majors and Liberal Studies requirements. A 3.5 GPA is required.

Portsmouth: A one-for-one student exchange with the University of Portsmouth, Portsmouth, England, allows students the opportunity of exchanging with their counterparts for one academic year. Students pay tuition and fees at their home institution. Available in a limited number of disciplines in business and social sciences. Students must have a minimum GPA of 2.5. For more information, contact the Assistant to the Dean of Business and Industry, Center for Business 100, or the Office of International Programs.

Tianjin: Pay less than MSUM tuition to spend a semester or year at Nankai University in China. Twelve credits may be earned: eight in Chinese language and four in Chinese culture. 3.0 GPA or higher recommended.

University of the Sunshine Coast: Students may study spring semester or a full academic year at the University of the Sunshine Coast, Queensland, Australia, earning up to 16 credits per term. Eligibility requires sophomore standing at the time of application and a minimum GPA of 2.5. Open to all relevant majors. Internships are also available.

ISEP: The International Student Exchange Program allows students the opportunity to study at any of 125 member universities worldwide. Students pay tuition and fees, room and board, and program fee at MSUM, and exchange these benefits at the host institution, thus making this one of the more affordable ways to

study abroad. Semester and year-long placements are available. A 2.75 GPA plus strong faculty recommendations are required. For more information, contact the Office of International Programs.

International Internships: Students may have the opportunity to complete their internship requirements abroad with the permission of the academic department.

For further information about these and other study abroad opportunities, contact individual program directors or the Office of International Programs in Flora Frick 151 at (218) 477-2956. A reference library with directories, brochures, maps, videos, scholarships and other materials for study and travel abroad is located in the office. Please check the web site at www.mnstate.edu/intl for additional information and resources.



Facilities and Services

Residence Halls

With six residence halls and one apartment facility offering a variety of living arrangements, there is capacity for 1,824 students to live on campus. Each hall floor houses 25-40 students under the supervision and direction of student resident assistants.

Room furnishings include draperies, desk lamps, and necessary furniture. Each room also furnishes local services for phone, expanded cable TV and internet access. Students provide linens, blankets, towels, pillows, and personal or decorative items.

John Neumaier Hall provides 36 apartments for a maximum of 142 occupants. Each apartment has a full kitchen including dishwasher, two bedrooms, two full bathrooms, and is partially furnished with kitchen tables and chairs for four, plus a single bed, desk and desk chair per resident. Each apartment has its own electric furnace (for heat and air conditioning) and water heater, and is billed for its electricity usage.

Hall complex staff members and services are under the supervision of full-time live-in Area Directors. Social, recreational, and cultural activities are planned and coordinated by undergraduate Complex Coordinators and Resident Assistants, and by the halls' student government organizations as described in their various constitutions.

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

Ballard Hall (1950)	165
Dahl Hall (1958)	293
Snarr Hall (1963-67)	453
Grantham Hall (1965)	200
Nelson Hall (1966)	373
Holmquist Hall (1969)	198
John Neumaier Hall (2002)	142

Dining Facilities

The University offers a complete dining service in Kise Commons, which is scheduled for a complete remodel during the next two years. Students living in traditional residence halls are required to be on a meal plan and their meals are provided depending on the meal plan that they select. Off-campus students, faculty, visitors, and guests are also welcome to use the dining facilities. Several dining options are available, including 5, 10, 14 or 21 meals per week plans; and any 120 meals per semester plan; the Dragon Plan (a declining balance plan of Dragon Dollars), and single meal purchase. Direct questions about the meal plans to the dining service office in Kise Commons, (218) 477-2836, or the Housing Office in Ballard Hall, (218) 477-2118. Off-campus student meal contracts are available through the

Housing Office in Ballard Hall. John Neumaier Hall residents may purchase meal plans (including Dragon Plans) at the on-campus contract rate if they choose. Their contracts do not include Dragon Dollars.

Campus Security

The Campus Security Department is located at 1616 9th Avenue South. The Campus Security Department provides safety and security services for students, faculty, staff, and campus visitors as well as protection of property located on the campus. With the exception of the Director, two Campus Security Officers, and Office Manager, the remainder of the positions are filled with university students. Student staff, after completing an interview process and background checks, must complete a 40 hour training program before being assigned to work.

The Campus Security Dispatch Center is staffed on a 24-hour basis (2449). Campus security staff patrol the university parking lots, academic buildings, residence halls, and the campus grounds 24 hours a day, 7 days a week. Parking patrol staff check the university parking lots from 7:00 a.m. to midnight except Saturdays and Sundays. Parking patrol staff are trained to respond to security calls if needed.

A major responsibility of the Campus Security Department is educating the university community to realize that protection of self and property is everyone's concern. To this end, the Campus Security staff conduct various crime prevention programs covering such topics as personal safety, bike safety, and fire safety.

The Campus Security Department is responsible for completing the Annual Campus Crime Report which is required by Federal Mandate. Minnesota State University Moorhead's Annual Campus Crime Report is available on the Internet at www.mnstate.edu/security.

This Report contains the statistics for the previous three years of reported crimes that occurred on campus; in buildings or property owned or controlled by the University; and on public property within, or immediately adjacent to the campus and reported to the University and/or Clay County Sheriff's Department or the Moorhead Police Department.

The Report also contains policies and procedures concerning safety and security on the campus of Minnesota State University Moorhead.

If you are unable to access this report and want a printed copy, or have other concerns about this Report, please contact the Director of Security, Minnesota State University Moorhead, 1616 9th Avenue South, Moorhead, MN 56563 or call (218) 477-5869.

Problems, questions, concerns and/or suggestions relating to Campus safety and security are always welcomed by the Director, (218) 477-5869, and/or the Vice President of Student Affairs, (218) 477-2171.

Minnesota State University Moorhead enjoys a close working relationship with the Moorhead Police Department and the Clay County Sheriff's Department. City police officers frequently patrol the parking lots and will occasionally walk through campus buildings.

MSUM Campus Security shares the facility at 1616 9th Avenue South with the Moorhead Police Department. This facility serves as a Police Substation and houses report writing and interview rooms for Moorhead Police patrol officers as well as housing the Police Crime Prevention and Juvenile Services section.

Comstock Memorial Union

Mission Statement: Comstock Memorial Union is an innovative, student-centered organization and facility. We deliver valued services and programs that enhance campus life and inspire University involvement and commitment.

Comstock Memorial Union is the center of campus life. Funding for the Union is, in part, provided by the activity fees students pay each year. The Union is a service organization that is designed to meet the various needs of the campus, as well as providing a place for getting to know and understand one another through an informal association outside the classroom. In addition to the services that follow, the Union also provides meeting rooms, programming areas, TV lounges, and informal general lounges for meeting friends and studying. Scheduling of the facilities can be done in the Union main office through Event Services.

Services funded and administered by the Union are:

- Copies Plus
- Etcetera Shop (convenience store)
- Main Office Area Services
- Recreation and Outing Center
- The Compass (information)
- The Underground (Non-Alcoholic Nightclub)

Other services located in the Union:

- Affinity Plus Credit Union/ATM
- Campus and U.S. mail drop
- Hot Heads Hair & Tanning
- Notary Public
- Student Paycheck Disbursement
- Subs & Sweets (Bakery/Deli)
- Union City Café (including Burger King and Pizza Hut)

Student Organizations and Administrative Offices are also housed in the Union. They are:

- Activities Resource Center
- Activities Resource Center Alcove
- Advocate
- Campus Activities Board (CAB)
- Career Services
- Disability Services
- Homecoming
- Judicial Affairs
- KMSC Radio
- Multicultural Affairs
- New Student Orientation
- Office of Student Activities
- Student Senate
- Student Support Services
- Volunteer Visions

Building hours of operations are:

7 a.m. – midnight, Monday – Wednesday, Friday

7 a.m. – 1 a.m., Thursday

9 a.m. – midnight, Saturday

10 a.m. – midnight, Sunday

Hours are posted for holidays and breaks.

For further details about the Union call (218) 477-2261 or visit our website at www.mnstate.edu/cmu.

Livingston Lord Library

The Livingston Lord library is home to 550,000 volumes and a dedicated team of faculty and staff. This four-story facility serves approximately 1,500 students a day and includes a computer and instruction lab with 26 computers, an additional 28 computers in the building, and a comfortable Reading Area on the first floor. An online catalog provides access to library resources throughout the region. Resources include numerous electronic databases with an increasing number of full-text resources, access to the Tri-College University Library and statewide collections, and many services supporting student, faculty, staff, and community information needs.

Special collections include:

- Legal materials in cooperation with the Clay County Law Library
- A Curriculum Materials Center with a 28,000-volume children's book collection
- Popular books, current magazines, and newspapers
- Maps and atlases
- Minnesota and U.S. government documents
- Media collection (videos, DVD's, and compact discs)
- The Northwest Minnesota Historical Center and University Archives

Services of particular interest to students include:

- Extensive interlibrary loan service
- Many hours of reference help from professional librarians
- “Ask a Librarian” e-mail reference (e-mail: refdesk@mnstate.edu)
- Ability to access electronic resources on your home computer
- Quiet study rooms
- Wireless access points in the library

The Library has the following Student Learning Goals. During their course of study at MSUM, students will:

- Understand the importance of information to scholarly and practical pursuits.
- Identify and refine information needs.
- Understand the structure and variety of information formats.
- Demonstrate the skills necessary to retrieve information.
- Organize, apply, and evaluate information.

The mission of Livingston Lord Library is to support the academic and cultural experience of our students, faculty, and the citizens of this region and to encourage their active, life-long learning. The Library acquires and organizes resources and provides the services that sustain research, support curricula, teach critical thinking, advance information literacy skills, encourage reading, advocate intellectual freedom, and enhance, thoughtful, informed citizenship.

More information, including hours of service, is available on the Library web site www.mnstate.edu/library or by calling (218) 477-2922.

Science Facilities

Hagen Hall is the home for chemistry, physics and technology 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. A new science laboratory building, located next to Hagen Hall, opened the summer of 2004. This building contains advanced laboratory teaching and research facilities for biology and chemistry.

Planetarium

Located in Bridges Hall 167 and containing a Spitz 512 Projector, 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 projectors and equipment are used

to produce a variety of additional effects lending realism and atmosphere to the presentations.

The Planetarium is used extensively by astronomy classes. It also provides demonstrations for elementary and secondary school classes and for the general public.

Regional Science Center

The Center operates two sites: the Buffalo River Site is a 300-acre outdoor classroom that is part of a 5,000 acre tallgrass prairie field station, 16 miles east of Moorhead on Highway 10; the other site is the Planetarium in Bridges Hall 167 on the MSUM campus. The Center maintains its offices in the Centennial House at the corner of 7th Avenue South and 11th Street South on the MSUM campus.

University students are involved in the Center as Honors Apprentices, part-time employees, and volunteers. The Center has more than 135 volunteers, many of whom are students. Students have an opportunity to develop many skills working with the Center, including working on our natural history projects, teaching K-12 students in an outdoor setting, and/or in delivering planetarium programs.

Bookstore

The MSUM Bookstore is located in the east wing of MacLean Hall. Required textbooks for classes are located in the lower level. 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 are school supplies, clothing, greeting cards, computers, computer software, and gift items. Directly next door to the Bookstore is the Dragon Stop, a convenience store. The convenience store offers a large variety of items such as sandwiches, salads, bakery goods, fountain and bottled drinks, juices, coffee, soft serve, popcorn, candy, ice cream novelties, and snacks. Seating is available in the connecting link between MacLean and Flora Frick Halls.

Roland Dille Center for the Arts

The Departments of Art and Design, Music, and Communication Studies, Film Studies, and Theatre Arts occupy this building. It includes a 900-seat auditorium, The Delmar J. Hansen Theatre; a seven-story stage area; an 80-foot gallery; a 316-seat thrust stage theatre, The Gaede Stage; music recital hall; instrumental and choral rehearsal rooms; electronic music studio; synthesizer and keyboard labs; recording library and listening room; 22 individual 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 for the Arts is the scene of year-round cultural activity, including the Performing Arts Series, musical performances and recitals, photographic and art exhibits, the Minnesota State University Moorhead Theatre, the Straw Hat Players summer theatre company, and the Opera Workshop.

Alcohol/Drug Awareness Program

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 campus Conduct Officer, Campus Security, and the Moorhead Police Department. The University has designated a Chemical Health Educator/Counselor to provide programming, assessment and counseling related to use/abuse of alcohol and other drugs. These services are accessed through Hendrix Health Center at (218) 477-2211 or Counseling at (218) 477-2227.

Advising Support Center

The Advising Support Center is located in Flora Frick 153. The Center has resources for all students and faculty who may have questions or concerns about majors, degree planning, advising, or available campus resources. For students who have not yet declared a major, the center serves as an undeclared department where those students may go to seek information and answers. It is also the home of the Peer Advisor program and the FYE (First Year Experience) program. For more information, call (218) 477-4318, or by visiting the website at www.mnstate.edu/advising.

Counseling and Personal Growth Center

The Counseling and Personal Growth Center provides a setting where students may discuss personal or academic concerns. The Counseling Center staff assists students with their development in such areas as career and educational planning, personal and social adjustment, mental health issues, and study skills improvement. The Counseling and Personal Growth Center services include individual counseling, personal development classes, career testing, supplemental instruction, free peer tutoring, study skills programs, and a comprehensive career resource room containing current career and educational information and related computer software.

Questions or requests for services should be directed to the Counseling and Personal Growth Center, Bridges 260, (218) 477-2227.

Write Site

The Write Site, located in Lommen 95, is a writing resource center for Minnesota State University Moorhead students. Its mission is:

- To assist students in improving their writing proficiency and independence during the various stages of their writing assignments.
- To facilitate faculty in helping students learn to write and write to learn.
- To provide a supportive environment where writers and readers work efficiently one-to-one.
- To train writing tutors to become effective readers of and responders to texts from various disciplines.

Instructional Media

The Instructional Media Department is located in two areas on campus. In the lower level of Weld Hall is located Classroom Services & Equipment Checkout, where faculty and students can get assistance with classroom presentation needs, including the use of AV, video and audio equipment. Also located in Weld is the TV Center which produces a variety of audio and video production, electronic duplication, satellite downlink services, videoconferencing, and assistance with presentation of electronic media.

Located in the Livingston Lord Library are Graphics Production and Photography Services for production of slides, posters, presentations, signs, photographs and other printed media.

Co-located in the Library Instructional Media office is the Tri-College University Film Library, which provides films, videos and DVDs to faculty members at MSUM, Concordia College, and NDSU to enhance classroom instruction. The film library catalog can be found online at www.mnstate.edu/tcufilm.

Disability Services

Minnesota State University Moorhead has a commitment to ensure that all students with documented physical, sensory, psychological, or learning disabilities have equal access to programs and services.

The Office of Disability Services, located in the Comstock Memorial Union (CMU), attempts to address the needs of students with disabilities or other health impairments which may interfere with a successful college experience.

Possible services include, but are not limited, to:

- Alternative testing arrangements
- Note-taking
- Taped textbooks
- Assistive technology
- Interpreting

Questions or requests for services should be addressed to the Coordinator of Disability Services, CMU 114, (218) 477-5859 (Voice), 1-800-627-3529 (MRS/TTY). For more information, please visit the Disability Services website at www.mnstate.edu/disability

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, (218) 477-2286.

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 (218) 477-2603, or stop by Livingston Lord Library, Room 201, between 7:30 a.m. and 4:30 p.m.

Early Education Center

The mission of the MSUM Early Education Center is to provide quality care and developmentally appropriate education for children between sixteen months and six years. The Center aims to provide an integrated program that includes equitable education for handicapped children and children of diverse cultures. As an integral component of the Early Childhood Education Program within the Elementary and Early Childhood Education Department, this Center provides practicum experiences for students seeking state licensure. The Center provides an exemplary inclusive model demonstration site and is based on current theory and research.

The Early Education Center, fully accredited by the National Academy of Early Childhood Programs—sponsored by National Association for the Education of Young Children (NAEYC), serves children whose parents are MSUM students/faculty/administrators or non-MSUM students. The Center is in session 80 days during Fall and Spring Semesters. The Center follows the MSUM academic calendar, opening daily at 7:30 a.m. and closing at 5:30 p.m. Children three to

six years of age participate in the full-time or part-time (i.e. 8:00 a.m. – 12:00 noon) program; while children sixteen months to three years participate in the full-time or part-time (i.e. under four hours) toddler program.

For further information, call the Director, (218) 477-2214.

Career Services

Career Services is a full-service center designed to meet your career related needs throughout your undergraduate years and into your professional life. You can expect to find a wide assortment of career information resources as well as expert job search assistance. Resources available include company and government job descriptions, projections on the job market, and a career information Resource Center 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 collection of current internship directories is available in the Resource Center of Career Services for student use. Internship opportunities for all majors arrive year-round and are listed on the Career Services web site at www.mnstate.edu/career by the semester in which the interns are needed. The site also includes contact information for departmental internship coordinators, university internship policies and many links to internship opportunities. Planning for internships before the junior year is advised to increase the chances of securing an internship(s) as a junior and/or senior.

The office continues to provide services for graduates and alumni. These services consist of free registration and uploading of a resume into **DragonCareers**—a web-based system that connects candidates with prospective employers; job and internship listings via **DragonCareers**; and on-campus interviewing and career fairs. Alumni and current students who wish to register via **DragonCareers** can do so at the Career Services web site listed above. Additional services are offered to assist with job interviewing techniques, professional review of résumés and letters, and the development of job search strategy for local, regional, and national searches.

Questions or requests for services should be directed to Career Services, CMU 114, (218) 477-2131.

Job Shop

The Job Shop is a one-stop resource for student employment. On-campus positions for Work Study and non-Work Study funding are listed. Off-campus employment opportunities are also listed. Students can search for a job and apply online at www.mnstate.edu/dragonjobs.

Minnesota State University Moorhead Alumni Foundation, Inc.

The Minnesota State University Moorhead Alumni Foundation, Inc. is a 501(c) (3) organization, separate from the University that exists to secure, receive, manage, administer, and disburse private funds for MSUM; to promote and advocate positive relationships with the alumni of MSUM; and to enhance MSUM in every way.

The Alumni Foundation's roots go back to the first alumni gathering of our alumni more than one hundred years ago. The alumni formalized their gatherings in 1929 by forming the Moorhead State Teachers College Alumni Association. In 1969, the Minnesota State College Foundation was founded to acquire and manage gifts and private funds for the University.

These two organizations merged in 1996 to form the Minnesota State University Alumni Foundation. Governed by a Board of Directors, the Alumni Foundation works closely with all university fundraising and alumni activities, always addressing its mission to "develop relationships and provide funding to advance academic excellence" at MSUM.

The Women's Center

The mission of the Women's Center is to provide an environment in which women and men can learn about gender issues that contribute to healthy living and open communication among people. Faculty and students are welcome to participate in learning, sharing, and striving for awareness and growth.

The Women's Center sponsors programs, serves as a resource center where students may obtain information on community resources, and houses a library which holds a large volume of books and periodicals dealing with gender issues. The lounge is open for study, conversation, or group meetings.

The Women's Center is located in MacLean Hall 171. For more information, call (218) 477-4973.

Student Judicial Services

The Student Judicial Services website is designed to provide the MSUM community with relevant information regarding student discipline and the Student Conduct Code. The site includes the judicial procedure, frequently asked questions, student rights and responsibilities, information on academic integrity, the Conduct Code, forms, and the mission and goals of student judicial services. Visit www.mnstate.edu/sss/sjs.

Wellness Center

Construction of a Health and Wellness facility has been approved by the student body at MSUM. This facility would be a full-service fitness/wellness facility for use primarily by students and secondarily by the faculty and staff of MSUM. Located adjacent to 14th Street, this facility would be easily accessible to the residence halls.

Students would have the ability to take advantage of a full service fitness facility, health clinic, food service, all of the services of the CMU (including computer labs) and the library in one complex.

Students would have personalized wellness assessments based on their health history and current habits such as smoking, alcohol consumption, stress, diet and exercise. The facility would also have state-of-the-art cardiovascular and strength equipment, an indoor track and a group exercise studio.

Construction on the facility is tentatively scheduled to begin during the 05/06 academic year with tentative completion by phases over the next three years. Until this facility is complete, students are able to use the Dragon Wellness Center, at the Higher Education Center, located a block and a half south of the campus on the corner of 14th Street and 12th Avenue. The center includes an exercise area and a fitness room with free weights, treadmills, elliptical trainers recumbent bikes, stair climbers, stretch trainer, a Smith machine, and a 19-station circuit training system. The facility also includes an open gym available for basketball, badminton or scheduled for a group activity.

Student Information

Student Affairs

The Division of Student Affairs, through its programs and services, is designed to improve the quality of life for those who live, work and learn at MSUM. The division serves to assist students and promote learning in and out of the classroom. This mission is accomplished through the following departments and programs: Admissions, Bookstore, Comstock Memorial Union and Activities, Counseling Center, Career Services, Financial Aid and Scholarships, Food Services, Hendrix Health Center, Housing and Residential Life, International Programs, Campus Security, and Student Support Services (Multicultural Affairs Office, Orientation, Student Conduct, and Disability Services). Other programs within Student Affairs include: the Women's Center, National Student Exchange, student organizations and student government support.

Student Senate

The Student Senate is the MnSCU Board of Trustees recognized governance body of the students. Most activities, policies, tuition/fees proposals, and work within university committees are subject to Student Senate consultation and participation. The students of MSUM elect the Student Senate, officers and members.

Peer Advisor Program

The Peer Advisor program supplements the faculty advising program. Departments nominate approximately 40 upper-division students each year to assist with the registration of incoming freshmen. These students are trained to help all students get the most from the learning opportunities available at MSUM. Peer Advisors work with their academic departments and also staff the Peer Advisor Center located in the Advising Support Center in Flora Frick 153.

Student Activities and Organizations

In addition to numerous activities related to academic studies, campus organizations provide opportunities for extracurricular participation by students at Minnesota State University Moorhead. For a list of recognized student organizations on campus, contact the Office of Student Activities, CMU 229, (218) 477-2790 or visit our website at www.mnstate.edu/osa.

Athletics

Intramural Athletics (Men, Women, Coed)

Basketball	Sandlot Volleyball
Broomball	Softball
Flag Football	Swimming
Golf	Tennis
Ice Hockey Open	Volleyball
Mini-Triathlon	Water Polo
Racquetball	Whiffleball

Women's Intercollegiate Athletics

Basketball	Swimming and Diving
Cross-Country	Tennis
Golf	Track (indoor and outdoor)
Soccer	Volleyball
Softball	

Men's Intercollegiate Athletics

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

Speech-Theatre Activities

During the academic year, the Department of Communication Studies, Film Studies, and Theatre Arts sponsors a variety of student activities, including Forensics, Forum Debates, several Theatre productions (drama, comedy, musicals, children's theatre, classic, and contemporary), as well as radio, television, and film production activities. These opportunities are open to all students on campus, regardless of major. During the summer, The Straw Hat Players company provides performing, technical, and publicity opportunities for students who must audition and be selected to participate. Contact the department at (218) 477-2126 for more information.

Music Performance Activities

Concert Band	New Music Ensemble
Wind Ensemble*	Festival Mixed Choir
Orchestra	Festival Women's Choir
Jazz Bands I & II*	Opera Workshop*
Vocal Jazz*	Concert Choir*
Commercial Ensembles*	Chamber Singers*
Percussion Ensemble	Jazz Combos*
Flute Choir	Saxophone Ensemble
Guitar Ensemble	Small String Ensemble
Trombone Choir	

*Audition required.

The musical organizations are open to all students on campus regardless of major. Contact the Music Department at (218) 477-2101 for more information.

Roland Dille Center for the Arts

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

Comstock Memorial Union

The Union provides many services: copying, faxing, binding, stamps, outdoor equipment rental, billiards, table tennis, video games, non-alcoholic night club, convenience store, meeting rooms, and food service. The Union hosts many programs, special events, dances, and vendors.

Other Fee-Funded Activities

Advocate (student newspaper)	Intramurals
Campus Activities Board	KMSC (radio)
Delta Pi Delta	Multicultural Activities
Dramatics	Music Activities
Forensics	Performing Arts Series
Homecoming	Recreational Swimming
International Films	Student Senate
International Students	Summer Theatre
	Volunteer Visions

Student Organizations

There are many student organizations on campus. Current listings and information about them can be found in the Office of Student Activities located in CMU 229, (218) 477-2790, or by visiting the web page at www.mnstate.edu/osa.

Culture and Language

American Indian Student Association
Asian American Association
Black Student Alliance
Chinese Club
Heritage Dancers
International Student Club
Japan Club
Model United Nations
Napalese Student Association
Organizacion Latina Americana
Pakistan Students Association
Slavic Culture Club
Spanish Club/Sigma Delta Pi
Support International

Academic

American Choral Directors Association
American College of Healthcare Executives
Association for Computing Machinery
Association of English Graduate Students
Blackfriars
Chemistry Club
Construction Management Society
Criminal Justice Association

Dragon's Society of Social Work
Economic Society
Education Minnesota Student Program
Financial Management Association
Gamma Epsilon Omicron
Graduate Student Organization
History Club
Math Club
Minnesota State Paralegal Association Moorhead
Music and Entertainment Industry Student Association
Music Educator's National Conference
National Students' Speech Language Hearing Association
Phi Alpha
Phi Beta Lambda
Photo Guild
Pi Sigma Epsilon
Pre-Med Club
Psi Chi/Psychology Club
Public & Human Services Administration
Society of Physics Students
Society of Professional Journalists
Student Council for Exceptional Children (SCEC)
Students Human Resource Association

Greek Life

Delta Zeta Sorority
Gamma Phi Beta Sorority
Panhellenic Council

Honorary

Alpha Lambda Delta
Pi Kappa Delta
Sigma Tau Delta
Tri Beta

Publications

Advocate

Religious

Brookdale Campus Ministries
Campus Crusade For Christ
Chi Alpha Christian Fellowship
Christian Bible Fellowship
Christain Student Fellowship
Intervarsity Christian Fellowship
Latter-Day Saints Student Association
Lutheran Campus Ministry
Muslim Student Association
St. Thomas Aquinas Newman Center

Residence Halls

Ballard Hall Council
Dahl Hall Council
John Neumaier Association
National Residence Hall Honorary
Nelson/Grantham/Holmquist Hall Council
Residence Hall Association
Snarr Hall Council

Service

Habitat for Humanity
Volunteer Visions

Special Interest

Ad Club
Alcove, The
Alpha Psi Omega
Anime Club
Association for Communication Enrichment
Athletic Training Students Association
Boarding and Skiing is Life
Campus Activities Board
Campus Feminist Organization
Chess Club
Cinethusiasts
Circle K
clubDesign
College Democrats
Collegians for Life
Digital Arts Club
Fantasy Guild
Friends of Democracy
Gamers Club
KMSC Radio
MSUM Ceramic Guild
MSUM Dragon Transfer Connection
Non-Traditional Student Association
Old Order of the Owls
Performance Avenue
Professional Wrestling Anonymous
Public Relations Student Society of America
Sci-Fi Club
Stop the Hate
Students for Choice
Students Today, Leaders Forever
Ten Percent Society
TRIOTA
Women's Studies Student Association

Sports and Recreation

Dragon Baseball Club
Dragon Cricket Club
Dragon Dance Team
Dragons 4 Wellness
Fencing Club
Men's Lacrosse Club
Men's Rugby Club
Tae Kwon Do
Terra Firma Men's Soccer
Women's Lacrosse Club
Women's Rugby Football Club

Student Government

Student Senate

Parking and Traffic Regulations

All vehicles parked on MSUM's campus must have a current parking permit or a guest parking permit. Permits are available in the Parking Office, 709 17th Street South, Moorhead (Maintenance Building).

All vehicles on campus grounds must be operated in compliance with the current regulations as printed in the Traffic and Parking Regulations manual. A copy of this manual is available at the Parking Office or on the parking website at www.mnstate.edu/parking.

Housing Policies

Housing application forms and contracts can be obtained online at the Housing website, www.mnstate.edu/housing, following students' admission to the University. Hard copies may also be requested from the Housing Office, (218) 477-2118.

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

Health Service

The Hendrix Health Center is an accredited, non-emergent outpatient clinic staffed by a full-time physician, nurse practitioners and registered nurses. Other services include: onsite pharmacy and medical laboratory, a Licensed Addiction Counselor, a Sexual Assault/Dating Violence Counselor, and a consulting psychiatrist. All registered students who have paid Student Fees are eligible for services, many at no charge. Pharmacy and laboratory charges are at a reduced rate. The pharmacy will collect co-pays and file your insurance claim electronically. The Health Center will provide insurance reimbursement forms for any other charges. Please bring insurance information to appointments.

Hendrix Health Center is located east of the Center for the Arts on 9th Avenue South. Contact Hendrix at (218) 477-2211 or www.mnstate.edu/hendrix.

Health Insurance

A **Group Insurance** plan for injury or sickness is offered through the University. Information is available during orientation and in the Business Office. It is strongly recommended that all students have insurance protection. If students are covered under the Student Insurance Policy and receive care at Hendrix Health Center, Hendrix staff will file insurance claims for them.

Immunization Requirements

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 exemptions. All students are requested to complete the *Immunization and Health Insurance Record* form, which can be found at www.mnstate.edu/hendrix/forms/index.cfm, and is filed in Hendrix Health Center and available for review by the Minnesota Department of Health and the local community health board. **NOTE:** Those graduating from a Minnesota

high school after the spring of 1997 will no longer be required to provide immunization records. However, students who transfer may need to verify their graduation from a Minnesota High School in order to satisfy the immunization requirements.

Senior Citizens

Residents of Minnesota, North Dakota, South Dakota and Wisconsin age 62 or over may either (a) attend class free without credit or (b) receive credit by payment of an administrative fee of \$20.00 per credit, if space is available after all tuition paying students are enrolled. Contact the Records Office for additional information.



Admission

Office of Admissions

102 Owens Hall
Minnesota State University Moorhead
1104 7th Avenue South
Moorhead, MN 56563
Website: go.mnstate.edu
e-mail address: dragon@mnstate.edu

Telephone: Local: (218) 477-2161
Toll Free: 1-800-593-7246

For TTY communication, contact Minnesota Relay Service at 1-800-627-3529.

The Office of Admissions welcomes inquiries about the University. Prospective students may obtain applications for admission by writing, calling or online at the addresses listed above. Campus tours may be scheduled for Monday through Friday when classes are in session at 10:00 a.m. and 2:00 p.m.

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

Application deadlines

Fall Semester	August 1
Spring Semester	December 1
Summer Session	May 1

Freshman Admission

Students who have graduated from high school or completed the GED and who have not attended a post-secondary institution since completing their high school education are classified as freshmen in the admission process. Students who may have attended post-secondary institutions while still in high school are also classified as freshmen in the admission process. International/Non-immigrants: see *International Students/Non-immigrant Admission* section of this *Bulletin*.

Freshman Application Procedures

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

- Application for Admission
- \$20 non-refundable Application Fee
- Official High School Transcript or Official GED Scores
- ACT or SAT scores

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 considered official.** 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 fall. Once the application is complete, notification of the decision will be mailed within two weeks.

Freshman Admission Requirements

High school graduation or the GED and the following qualifications are necessary for admission to MSUM. Applicants not meeting these criteria are reviewed on an individual basis.

- High school rank in the upper one-half of the graduating class with a minimum of 17 on the ACT or 830 on the SAT **OR**
- Achieve the following score(s) on any one of the standardized college admissions tests (ACT is preferred):
 - ACT Composite Score of 21 or above (The ACT writing will not be required)
 - SAT Verbal and Math Combined Re-centered Score of 1000 or above, **AND**
- Complete Preparation Standards as described below. New entering freshmen who have met preparation standards for university admission in their respective states will be deemed to have met Minnesota preparation standards.
- 4 years of English (including composition and literature)
- 3 years of Mathematics (two years of algebra, of which one is intermediate or advanced algebra, and one year of geometry)
- 3 years of Science (at least one 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)
- 2 years of world language
- 1 year of world culture or the arts.

Admission to the Corrick Center for General Education

Freshmen who do not meet the automatic admission requirements for class rank or test score, but who demonstrate the potential to succeed, may be considered for admission to the Corrick Center for General Education. (See the *Curricula* section of this *Bulletin* on Multidisciplinary Studies). Applications will be considered when the admission file is complete.

The Admissions Office will review all materials and determine admission to the Corrick Center. A variety of criteria are considered, including student talent, accomplishments, interests, and level of motivation. Enrollment in the Corrick Center is open to both traditional and non-traditional students, but is limited numerically. Admission to the Corrick Center is available beginning fall or spring semester, but is not available during the summer session.

Students who have completed a GED (General Educational Development) must have their test scores and a copy of their certificate forwarded to the Admissions Office by the test center. An ACT or SAT is required for students enrolling within four years of GED completion.

For more information, contact the Corrick Center for General Education, (218) 477-2954, or the Admissions Office, (218) 477-2161.

Non-Traditional Students

MSUM defines a non-traditional student as someone who has been out of high school and/or post-secondary education four or more years. All non-traditional applicants are reviewed individually to determine admission based on past academic achievement and the potential to be successful in a university learning environment.

Students will be referred to appropriate services and programs, such as the Corrick Center, Continuing Studies, Counseling Center, and the Non-Traditional Student Association. For more information, contact the Admissions Office, (218) 477-2161.

Transfer Admission

Transfer Application deadlines

Fall Semester	August 1
Spring Semester	December 1

Transfer Application Requirements

Students who have graduated from high school, or completed the GED and who have subsequently attended a post-secondary institution are classified as transfers in the admission process.

Transfer students must submit the following documents to be considered for admission:

- MSUM Application for Admission
- \$20 non-refundable Application Fee
- **Official** transcript(s) of **ALL** previously attended post-secondary institutions. Official transcripts must be sent directly from the previous college Registrar's Office to the MSUM Office of Admission. **FAX (facsimile), student, or unofficial copies are not considered official transcripts.** Failure to declare **ALL** previous post-secondary attendance is regarded as a serious offense and may result in dismissal from the University and the withdrawal of all credits completed.
- **Official** High School Transcript or GED scores.

Please allow 2-3 weeks processing time for admission to the University.

(If transcripts are under a different name, due to a legal name change, it is your responsibility to have the name corrected so that the application and transcripts can be matched. Please remember to submit a final transcript if you are currently enrolled).

Transfer Admission Requirements

High school graduation, or the GED, is required for admission. Transfer students who have completed a minimum of 24 ACADEMIC semester hour credits or 36 ACADEMIC quarter hour credits from a regionally accredited college or university with a minimum cumulative 2.0 GPA will be automatically admitted as a transfer student. Students who have completed less than 24 academic semester credit hours will be required to provide both their college and high school records to determine admission eligibility. International/non-immigrants: see *International Students/Non-immigrant Admissions* section of this *Bulletin*.

NOTE: All grades of "F", "FN", "NC" (no credit) or "I" (incomplete) will be treated as "F's" in computing GPA.

Students with a GPA of less than 2.0 will be automatically denied admission. A transfer appeal form will be sent to each student which may be used to appeal their admission denial. A high school transcript, and other supporting material, will also be required for academic transfer appeals. MSUM recognizes and upholds academic suspensions from other post-secondary institutions. Prospective students under suspension from another institution will not be considered for admission until two academic terms have passed since the suspension. Summer session does not count as a term.

Planning to Transfer?

Minnesota's public colleges and universities are working to make transferring easier. Transfer students can help by planning ahead, asking questions, and using pathways created by transfer agreements.

Preparing for Transfer

Students who are currently enrolled in a college or university should:

- Discuss plans with the campus transfer specialist.
- Call or visit the intended transfer institution and obtain the following materials and information: bulletin or catalog; transfer brochure; information on admission criteria and materials required for admission, e.g. portfolio, transcripts, test scores (note that some majors have limited enrollments or their own requirements such as a higher GPA); and information on financial aid (how to apply and by what date).
- Review the materials and make an appointment to talk with an advisor/counselor in the intended transfer institution or program. Be sure to ask about course transfer and admission criteria.

Students who are not currently enrolled in a college or university might begin by meeting with a transfer specialist or an admission officer at the intended transfer institution to plan the steps necessary for transfer.

How Transfer of Credit Works

- The receiving college or university decides what credits transfer and whether those credits meet its degree requirements. The accreditation of both the sending and receiving institution can affect the transfer of credits earned.
- Institutions accept credits from courses and programs like those they offer. They look for similarity in course goals, content, and level.
- Not everything that transfers will help a student graduate. Baccalaureate degree programs usually count credits in three categories: general education, major/minor courses and prerequisites, and electives. The key question is: Will the student's credits fulfill requirements of the degree or program chosen?
- If a student's career goal or major changes, the student might not be able to complete all degree requirements within the minimum number of graduation credits required.

Applying for Transfer Admission

- Application for admission is always the first step in transferring. Fill out the application as early as possible prior to the deadline. Enclose the application fee.
- Request official transcripts from every institution attended. A high school transcript or GED test scores might be required as well.
- Re-check to be certain the college or university has been supplied with all of the necessary paperwork. Most colleges make no decisions until all required documents are in the student's file.
- If nothing is heard from the intended college of transfer after one month, call to check on the status of the application.
- After the college notifies the student of acceptance for admission, transcripts will be evaluated for transfer. A written evaluation will tell the student which courses transfer and which do not. How the courses specifically meet degree requirements may not be decided until the student arrives for registration or chooses a major.
- Questions about the evaluation should be directed to a credit evaluator in the Office of Admissions. Ask why judgments were made about specific courses. Many concerns can be cleared up if the student understands why decisions were made. If not satisfied, the student can appeal.

Students' Rights as a Transfer Student

Students are entitled to:

- A clear, understandable statement of an institution's transfer policy. A fair credit review and an explanation of why credits were or were not accepted.
- A copy of the formal appeals process. The usual appeals steps are:
 - Student fills out an appeals form. Supplemental information the student provides to reviewers such as a syllabus, course description, or reading list can help.
 - Academic Appeals Committee will review.
- Student receives, in writing, the outcome of the appeal.
- At the student's request, a review of eligibility for financial aid or scholarships.

For help with transfer questions or problems, see a campus transfer specialist, (218) 477-2563.

International Student/ Non-immigrant Admission

Freshman International Students

International students who wish to be considered for admission to MSUM should obtain an international student admission packet from the International Programs Office. This packet should be returned with a \$20 application fee. All international student applicants must meet (a) academic, (b) English proficiency, and (c) financial support requirements.

Academic Standards

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.

English Proficiency

International students are required to provide evidence that their English proficiency is sufficient to enable them to be academically successful at MSUM. 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 (173 computer-based) or higher are acceptable for admission for undergraduate students. Graduate students require a TOEFL score of 550 or better (213 computer-based), and graduate students admitted to the Master of Liberal Arts program require a TOEFL score of 570 or higher (230 computer-based). The ELS score of 109 or higher will be accepted in lieu of the TOEFL score for undergraduate English proficiency. The IELTS scores of 5.0 will also be accepted.

Financial Support

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 MSUM. 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 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.

International students must attend at least one term at the institution that provided their initial post-secondary 1-20.

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 Records 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.

International Student Tuition

Minnesota State University Moorhead will grant in-state tuition to international students who have demonstrated academic potential. The number of international students who can receive in-state tuition waivers is strictly limited to no more than 3% of the MSUM Fall semester FTE enrollment. In order to continue to receive the in-state tuition waiver beyond the first year, students must maintain academic good standing (2.50 GPA for undergraduate students and 3.00 GPA for graduate students), keep in status with the I.N.S., and demonstrate satisfactory progress toward a degree. This policy is subject to change or suspension without advance notice by action of either Minnesota State University Moorhead or the MnSCU Board of Trustees.

Mandatory Health Insurance

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

Mandatory International Student Fee

In addition to tuition and fees, all international students are assessed \$100.00 per semester to support additional programming and advising in the International Student program.

Post-Secondary Enrollment Option (PSEO)

The Post-Secondary Enrollment Options Program (PSEO) was initially authorized by the 1985 Minnesota Legislature. Students in public, non-public, home school, and tribal schools in Minnesota may enroll in this program, and receive both college credit and credit toward high school graduation requirements. Tuition, fees (except for private music lessons and some other additional fees), and required books are provided to each student.

It is recommended that students carefully consider their participation in this program before applying for

admission. Students should discuss participation in the PSEO program with their parents and high school counselor/principal.

Admission eligibility to PSEO is established by MSUM and is based on high school class rank. High school seniors must be in the upper half of their class to take one course. High school juniors must be in the upper third of their class to take one course. Both seniors and juniors must be in the upper quarter of their class to register for more than one course. Home school students should contact the Director of Academic Support Programs (Owens 206) for information on admission requirements.

Any interested students should contact the Director of Academic Support Programs for application forms and information at (218) 477-2996. Enrollment in classes depends on space availability - high school students cannot displace regularly admitted students. This means that some classes will not be available when PSEO students register. PSEO students are not eligible for Tri-College University, financial aid, or summer sessions.

Students who seek to enroll at MSUM after participating in the PSEO program must notify the Admissions Office of their intention. A \$20.00 application fee and final high school transcript are required and should be sent to the Admissions Office. Students will then be evaluated for admission using the criteria in effect for all students.

Early Enrollment Option

Juniors and seniors in high schools outside of Minnesota who show exceptional academic ability may apply to participate in the early enrollment option.

Admission through this option is based on high school class rank. Seniors must be in the upper half of their high school class and high school juniors must be in the top third of their high school class to be admitted.

To apply for this option, students must submit:

- A completed application for freshman admission (please write "Early Enrollment" at the top of the application);
- The \$20 application fee;
- High school transcript and courses in progress;
- Statement from the high school principal or counselor granting permission to participate in early enrollment.

Early enrollment students are not given registration priority nor are they eligible to participate in the Tri-

College University. Students will be billed for tuition and fees after course registration takes place; early enrollment students are not eligible for financial aid.

Admission through this option does not guarantee that students will be automatically admitted to MSUM as freshmen after earning their high school diplomas. Should admission to a degree program be desired at a later date, students must then submit official academic transcripts from high school and any other post-secondary institutions attended.

Undergraduate Special Students

Students who have completed a high school diploma or GED and who are not seeking a degree at MSUM but who wish to take courses for enrichment should enroll as special students. **Students who have been denied admission may not be considered for special student admission.**

Students who are interested in this option should be aware of the following:

- Special students do not qualify for federal financial aid, are not assigned to a faculty advisor and are not eligible to participate in the Tri-College University.
- Special students are not eligible for graduation. Students who are enrolling in 12 or more semester credits during a term should apply as degree seeking students.

To apply, students must submit:

- A completed application for admission (Under Application Type, please check "Seeking No Degree-Undergraduate Special Student").
- The \$20 application fee.

Should admission to a degree program be desired at a later date, the student must then submit an official academic transcript from high school or GED scores and transcripts from any previous post-secondary institutions attended. No readmission fee is charged. Students will be evaluated for admission using the criteria described under *Transfer Admission*.

Readmission

Students who leave MSUM for one or more semesters need to apply for readmission. Former students of MSUM, 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 MSUM 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. For more information, contact the Records Office, (218) 477-2582. Readmission applications available at www.mnstate.edu/records/onlineforms/readmission.pdf.

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 Records Office of this change and request all official transcripts to be sent to the Records Office.

Resident

Permanent residents and refugees are treated as U.S. citizens in the admission process and are eligible to apply for financial aid.



Financial Information

University Expenses

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

Basic costs include tuition, fees, and books, housing and meals, and incidental or personal expenses. So students living on campus can expect estimated total annual expenses at MSUM to range from \$11,876 to \$14,300 including personal expenses.

The following is a table of estimated costs for the 2006-2007 academic year, based on a normal undergraduate load of 30 credits per year. These rates are subject to change.

Tuition (including mandatory comprehensive fee):
\$5,721.00

Housing (Double) and Meals (21 per week):
\$5,420.00

Total: \$11,141.00

Incidental and personal expenses - books and supplies, clothing, laundry, recreation, transportation, etc. - may range from \$2,400 to \$3,400, depending upon individual needs.

Tuition Rates

Charges for tuition are based upon the semester credit unit, varying according to student residency status and the type of course offered. These rates are subject to change.

Resident Status (MN, ND, and Manitoba)

Undergraduate	\$162.94
Graduate	\$250.92

South Dakota Reciprocity Status

Undergraduate	\$162.94
Graduate	\$250.92

Wisconsin Reciprocity Status

Undergraduate	\$181.58 per credit (1-11 credits); \$2,179.00 per semester (12-18 credits)
Graduate	\$242.65

Non-Resident Status

Undergraduate	\$325.88 Non-resident, non-reciprocity students pay MN rates
Graduate	\$501.84 Non-resident, non-reciprocity students pay MN rates

NOTE: The non-resident tuition rate is double the Minnesota resident rate.

Comprehensive Student Fee

All students enrolled for regular instruction are assessed a mandatory comprehensive fee based on the number of enrolled credits not to exceed \$830.00 per year (based on 12 credits per term, Fall/Spring).

Fee assessments are required by MnSCU Board Policy 5.11 to defray costs of maintaining such essential university services as student union operation and debt retirement, health services, co-curricular programs or activities, computer usage, and event fees.

Comprehensive fees are required for all campus-based courses, including student teaching, internships, and other instructions that may not be located on the MSUM campus. The comprehensive student fee is the only fee all students pay. In some cases, laboratory, studio, and music courses require supply fees or lesson fees.

New Student Fee

New students are assessed a one-time fee of \$50.00 to cover registration, advising, and orientation programs and activities.

Resident and Non-Resident Tuition Status

Out-of-state students from non-reciprocity states have been approved to pay in-state tuition. Students shall also be eligible to pay in-state tuition if they meet the criteria of Minnesota State Statute 135A.031, subdivision 2. This statute creates the following categories of eligibility for resident tuition:

- Students who resided in the state for at least one calendar year prior to applying for admission or dependent students whose parent or legal guardian resides in Minnesota at the time the student applies;
- Minnesota residents who can demonstrate that they were temporarily absent from the state without establishing residency elsewhere;
- Residents of other states or provinces who are attending a Minnesota institution under a tuition reciprocity agreement; and
- Students who have been in Minnesota as migrant farm workers, as defined in the Code of Federal Regulations, title 20, section 633.104, over a period of at least two years immediately before admission or readmission to a Minnesota public post-secondary institution, or students who are dependents of such migrant farm workers.

MnSCU policy provides access to resident tuition for individuals in the following categories:

- Out-of-state students from non-reciprocity states;
- Graduate students appointed to graduate assistant positions;

- Students who qualify under a Board-approved agreement between a governmental subdivision and a college or university;
- Colleges and universities may adopt a policy to exempt high ability students who are in the top 15% of their high school class or who score above the 85th percentile on a nationally-normed, standardized achievement test and who reside in states that do not have reciprocity agreements with Minnesota;
- Students who qualify under a college or university affirmative action program consistent with law and approved by the Chancellor or designee;
- Students who are recognized as refugees by the Office of Refugee Resettlement of the U.S. Department of Health and Human Services;
- Colleges and universities may adopt a policy to exempt non-immigrant international students classified under 8., U.S.C. 1101 (a) (15) (B), (C), (D), (F), (H), (J), and (M); and
- U.S. military personnel serving on active duty assignment in Minnesota, and their spouses and dependent children.

There are other factors which may be weighed in considering the question of residency and/or resident tuition for an individual student. Any questions regarding residency and resident tuition should be directed to the MSUM Registrar, (218) 477-2575.

Reciprocal Tuition Agreements

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

ND/SD/WI students attending Minnesota State University Moorhead are now able to access the reciprocity application forms on the web.

Instructions to apply for Reciprocity [ND/SD/WI]

North Dakota and Wisconsin students attending Minnesota State University Moorhead may now apply for reciprocity on-line. South Dakota students must apply by printing the form and following the directions found on their website.

North Dakota students: <http://www.ndus.nodak.edu/students/orhter-resource/details.asp?id=115>

Wisconsin students:
<http://www.heab.state.wi.us/mnwiapp.html>

South Dakota student should follow the directions found at the following web site:

http://www.mheso.state.mn.us/pdf/Reciprocity_Apps/MN-SDApplication06-07.pdf for the 2006-2007 academic year and http://www.mheso.state.mn.us/pdf/Reciprocity_Apps/MN-SDApplication07-08.pdf for the 2007-2008 academic year.

North Dakota application may be submitted online, South Dakota and Wisconsin is not available to apply online. The application must be printed and after completion mailed to the state office.

North Dakota, South Dakota, and Wisconsin students will be charged at reciprocity tuition rates only if MSUM has been notified of their approval for reciprocity status by the appropriate higher education authority prior to regular billing dates. Residents of these three states are required to apply for reciprocity. If they do not file for reciprocity they will be charged non-resident tuition rates which are double the resident rates.

Students who attend MSUM within 12 months of graduation from a North Dakota or South Dakota High School do not need to file an application. However, if they do not attend MSUM within 12 months of their graduation, they must file a reciprocity application. Students who transfer must file new reciprocity applications so the various state agencies know the current institution of attendance.

Students will retain their reciprocal status if they earn credit each academic year. If credit is not earned each year, whether through non-attendance, withdrawal, incompletes, in-progress, or failing grades, the student must reapply for reciprocity.

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 MSUM 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 Dakota, South Dakota, or Wisconsin.

Minnesota-Manitoba Reciprocity

The state of Minnesota and the Canadian province of Manitoba participate in a reciprocal tuition agreement. Students who are residents of Manitoba are now eligible for resident tuition at Minnesota State University Moorhead. Please address any questions about Minnesota-Manitoba reciprocity to the MSUM Registrar.

Payment of Tuition and Fees

Beginning Fall, 2006, students will be **dropped for non-payment by the 5th business day of the semester. To avoid cancellation of classes, the student must meet at least one of the following criteria:**

1. Student has applied for and the university has received FAFSA results from the US Department of Education.
OR
2. The Student has made a minimum down payment to tuition and fees of 15% or \$300, whichever is less. NOTE: all prior term bills must be paid in full.
OR
3. The student has a documented scholarship or third party award that meets the minimum down payment rule (see number 2, above).
OR
4. The student is enrolled for the PSEO program, or is an incoming NSR or exchange student who pays tuition/fees at their home institution.
OR
5. The student has an **active** payment plan.
OR
6. The student's tuition/fees are deferred for special hardship cases.

Full payment of the semester's charges, are due by the payment deadlines designated in the academic calendar and the term schedules. A late fee will be assessed on payments received after the established payment deadline. (See *Late Fee Waiver/Payment Plan* below.)

The University has established a five (5) day free drop/add period at the start of each semester. During this period, students may drop any or all classes without obligation. Students are obligated to pay for **all** classes remaining after this free drop/add period.

Late Fee Waivers, Payment Plans and Short-Term University Loans:

Students may apply for a late fee waiver if delay of their financial aid is caused by the institution or if a private, state, or federal organization (billed third party, i.e., PSEO, DVR, CEP, etc.) has provided written agreement to pay for the amount owed by the student. This waiver will prevent the late fee and

accumulation of interest. If the government or third party fails to pay the debt, the student will be responsible for the payment and may not register for subsequent semesters until the debt is satisfied. Personal or family financial difficulties or the late application for financial aid are not valid grounds for a waiver of late fee charges.

Students who have entered a room/board contract with the University may request a payment plan to fulfill this part of their term bill. Application for such special payment arrangements should be made with the Housing Office prior to the payment deadline date each term. Students who are not current with their housing payment schedule will have their meal contracts invalidated and will be notified to vacate the resident halls.

Minnesota State University Moorhead will place a hold on diplomas, official transcripts, and term grades until (a) all tuition, course related fees and student fees have been paid and (b) all other financial obligation (**including Financial Aid repayments**) owed the University have been settled.

Students who have registered for courses at MSUM but decide not to continue attendance should (a) contact the Records Office if this decision is made on or prior to the fifth class day of the term or (b) contact the Counseling Center after the fifth class day of the term. Notification to the University of non-attendance may reduce charges and/or create a refund. Failure to provide such notification may result in full tuition/fee charges plus additional late/interest costs.

Refund of Tuition/ Fee Payments Due to Withdrawal

MSUM will process a proportional refund of tuition and fees to the student and/or the student's financial aid funding sources when the student **totally withdraws** from the University.

NOTE: Refunds of tuition and fees due to individual dropped courses will be granted only for drops occurring in the first five (5) days of the semester.

Students who withdraw or discontinue enrollment during the Fall or Spring Semesters should begin the process at the Counseling Center, Bridges Hall 260. Those students who wish to withdraw during the Summer Sessions should report to the Records Office, Owens Hall 104.

Refunds of tuition and fees for total withdrawals from the University are based on the following schedules as established by the MnSCU Board, the University, or the Federal Statutory Refund policies for students receiving Title IV aid:

I. Students who have **not** received Federal Title IV aid funding:

Fall and Spring Semesters

- On or before the 5th class day 100%
- 6th through 10th class day 75%
- 11th through 15th class day 50%
- 16th through 20th class day 25%
- After 20th class day None

Summer Session

- On or before 5th class day 100%
- 6th through 10th class day 50%
- After 10th class day None

NOTE: Refunds for students who have received State aid funding will be used first to repay those aid sources, up to the initial award amount received, before any funds are disbursed to the student.

II. Students who have received Federal Title IV aid funding for the term: (Title IV funds include Direct Subsidized, Unsubsidized, Plus, and Perkins Loans, Pell and SEOG Grants):

- Federal regulations require repayment of ‘unearned’ aid for students withdrawing or who discontinue attending class anytime prior to the 60th percentile of the term.

The calculation used to determine how much aid a student has ‘earned’ and need not repay is: Days attended divided by total calendar days in the term equals percentage earned. The amount to be repaid is the remaining percentage or ‘unearned’ percentage.

Example: If the student withdraws from the University one-quarter (25%) way through the term, 75% of the Federal aid received must be repaid. The 75% is considered unused or ‘unearned’.

Using the above example, if the student withdraws/discontinues attending class on the 29th calendar day of the term, the percentages of aid earned and unearned would be calculated as follows:

$$\begin{array}{r}
 \text{Days attended} \quad (29) \\
 \hline
 \text{Total days in term}(116) \\
 \hline
 100\% \\
 - 25\% \text{ earned aid} \\
 \hline
 = 75\% \text{ ‘unearned’ aid, required to be repaid to} \\
 \text{the federal aid funding sources}
 \end{array}
 = 25\% \text{ earned aid}$$

Repayment of the ‘unearned’ portion of aid received is a shared responsibility of the University and the student, based on two main assumptions:

- Federal aid is first used to pay University charges.
- The school’s share of the unearned aid is to be repaid first.

The University’s obligation is the **lesser** of the ‘unearned’ percentage of aid multiplied by the total institutional charges for the term OR the ‘unearned’ percentage times the total amount of Title IV aid disbursed. **The student will be required to pay the ‘unearned’ aid funding not repaid by the University.**

Exceptions: Loan dollars are excluded from immediate student repayment on the assumption that the student will follow loan repayment according to the terms of the promissory note(s). Further, student repayment of grant funds will be reduced by 50%, after the ‘unearned’ calculation is determined and after the University’s repayment amount is subtracted.

Finally, the regulations stipulate the student’s repayment choices:

- Repay, to the University, the ‘unearned’ aid amount in full within 45 days of the school’s notification of a repayment requirement.
- Make payment arrangements with the Department of Education via NSLDS (National Student Loan Data System) (800-621-3115).

Failure to repay using one of these two methods will result in denial of any future federal aid plus the usual hold on official transcripts, diplomas, and future registration.

Students who wish to appeal refund policies and/or percentages used for determining the refund amounts may file a “**Tuition Refund Appeal**”.

Resident Hall Refunds are based on the number of days remaining in the term. A \$50.00 Administrative Charge will be deducted from the Housing refund.

As with refunds of tuition and fees, Housing refunds for students who received Federal or State aid will first be repaid to those aid funding sources in the order directed by the Department of Education. Any remaining refund dollars will be disbursed to the student. No refunds will be granted for less than \$1.00.

Tuition Refund Appeals

Students who wish to appeal for tuition/fee refunds based on individually dropped courses occurring after the free drop/add period or for larger refund percentages used in the case of a total withdrawal from the University, may file a Tuition Refund Appeal.

Appeal forms are available on the web (www.mnstate.edu/busoff) or at the Business Office, Records Office, and the Counseling Center.

Students who discontinue class attendance based on extenuating circumstances or some situation out of their control are eligible to file an appeal. The completed form should be turned in to the Business Office, Owens 106, along with supportive documentation such as a statement from a doctor, counselor, clergy, university advisor/instructor(s), or job supervisor.

The appeal committee meets once a month or as demand dictates. Strict and confidential privacy regulations apply to all submitted appeals.

NOTE: Approved appeals relating to individually dropped classes may have an impact on financial aid eligibility. Students who are concerned with the effect of an approved refundable drop on their aid eligibility may contact the Business Office to discuss the situation prior to submitting the appeal. Financial aid programs limit the allowable time to return Federal and State funds. Refund appeals must be submitted within 90 days of the end of the term for which a refund appeal is submitted but not later than September 25 of the next academic year.

Housing and Dining Contracts

If you intend to live in a university residence hall, you must sign a contract. The complete contract may be obtained online at www.mnstate.edu/housing or will be mailed to you upon request. It should be carefully read for provisions affecting your plans and financial implications. If you have questions about residence hall life, housing, or would like a housing contract, call the MSUM Housing Office at (218) 477-2118.

Room and board rates (including local telephone service, cable TV and DSL internet access service for each semester of the year) are available by calling the MSUM Housing Office, (218) 477-2118.

Financial Aid

Students seeking help in financing their education should apply to all possible sources, including the University. Financial aid is available in two categories:

- Programs which require students to demonstrate financial need such as Federal Pell, MN Grant, Work Study, Federal SEOG, Perkins Loans, and Direct Subsidized Loans; and
- Programs that are not based on need such as Direct Unsubsidized Loans, Federal PLUS, and Alternative Educational Loans.

Information about financial aid and application forms are available from the Office of Scholarship and Financial Aid or the Peer Advising Office.

Application for Financial Aid

Financial aid awards are made for newly admitted or currently enrolled students. Students must complete the Free Application for Federal Student Aid (FAFSA) or the Renewal Application for Student Financial Aid and authorize MSUM to receive the data. Additional documentation, including signed tax returns, W-2's and the Institutional Verification Worksheet, may be requested during the review process. Alternative loans require an additional application.

Students must meet eligibility criteria for each of the programs. Private scholarships, MSUM 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 Federal Pell Grants, and the campus-based programs require that students:

- Usually demonstrate financial need (or eligibility for Pell grant is determined);
- Have a high school diploma, GED, or pass an independently administered test;
- Be enrolled as a regular student in a degree program;
- Be a U.S. citizen or eligible non-citizen;
- Maintain satisfactory academic progress;
- Provide a valid Social Security Number;
- Register with Selective Service, if a male;
- Not have a drug offense conviction;
- Be in good standing on previously received financial aid (not in default or overpayment);
- Enroll each term in courses eligible for financial aid.

Aid applications should be completed and submitted as early as possible after January 1 to assure full consideration. Campus-based funds such as Federal SEOG, Federal and Minnesota Work Study and Federal Perkins loans are usually awarded on a "first-applied, first-awarded" basis, with a priority date of February 15 or until funding is fully committed. Applications will be processed and awards made to the extent that funds are available. Students must apply each year.

Students with special circumstances or students whose circumstances change after applying for aid should contact the Office of Scholarship and Financial Aid for information on the appeal process. All special circumstances require written documentation.

FAFSA forms are available from high school counselors, from other post-secondary schools, or from the MSUM Office of Scholarship and Financial Aid. Students who previously applied for financial aid will receive a Renewal Reminder for Federal Student Aid. It is recommended students use FAFSA on the Web, instead of the paper FAFSA.

Aid Awards and Renewals

Financial aid awards are made for a one-year period only, ending at the conclusion of spring semester (or summer for summer enrollees). Any change in students' financial resources (i.e., receipt of grants, educational loans or scholarships from non-university sources) must be reported to the Office of Scholarship and Financial Aid. Total amount of aid received cannot exceed the cost of education.

Students attending full-time or part-time can receive financial aid; however, minimum enrollment requirements vary from program to program. See the *Financial Aid Award Guide* for details. Students must meet all eligibility criteria before awarded funds are disbursed. Most financial aid is disbursed after the free drop/add period each semester. Overage funds are transferred to the student's personal bank account (if Direct Deposit is authorized) or a check mailed to all others.

Enrollment Requirement

Federal Pell Grant, Minnesota Grant, Federal SEOG and Federal Perkins loans are paid based on the number of enrolled credits at payment. To receive a full-time payment for Federal Pell, Federal SEOG or Federal Perkins, students must be enrolled in 12 or more credits per term. Pell payments are based on the enrollment status on the 30th calendar day of the semester. Changes in enrollment after the 30th calendar day will not adjust Pell payments. Federal Pell grants, Federal Perkins, and Federal SEOG prorate for less than 12 credits. Minnesota Grant payments are computed on average tuition and fee charges for three to fifteen credits. Scholarships are generally paid only to student enrolled full-time (12 or more credits per term).

Last Day of Attendance

Financial aid recipients who unofficially withdraw and receive all F's and W's have their aid eligibility reviewed and refunds calculated. Aid eligibility is based on the last day that class attendance or activity can be documented. Refunds are returned to the appropriate financial aid program. Students affected may document course activity and if the last date is beyond 60% of the semester, no refund is due. Failure to document activity results in holds on future aid disbursements.

Summer Financial Aid

A separate summer application is required for financial aid. Summer financial aid is considered a part of the preceding academic year and a complete aid application for that year must be on file. Students who did not receive their full Pell or Minnesota Grant during the academic year may be eligible for the remainder during summer term. In order to borrow, students must have remaining loan eligibility from the preceding year. Full time enrollment for undergraduate financial aid is 12 credits during summer term (15 credits for Minnesota Grant).

Types of Financial Aid

Federal Pell Grant

Eligible undergraduates may receive up to \$4,050 per year from the Federal Pell Grant program (2006-2007). Determination of eligibility is not made by the University but through the FAFSA application.

Minnesota State Grant

Minnesota residents who enroll at MSUM may qualify for aid through the Minnesota State Grant Program with eligibility for up to four years of full-time equivalent enrollment. Awards are prorated when enrollment is less than 15 credits per term. Students must apply annually.

Post-Secondary Childcare Grant Program

The Post-Secondary Childcare Grant Program provides childcare funding for Minnesota residents who are enrolled in a minimum of six credits per term. Applicants must not concurrently receive MFIP benefits from the state. Applications are available at the MSUM Office of Scholarship and Financial Aid.

Scholarships

MSUM awards scholarships to freshmen, transfer students and upper-class students with outstanding abilities, qualifications and promise. All external scholarships must be reported to the Office of Scholarship and Financial Aid. Scholarships are part of the financial aid package and may cause adjustments if scholarship information is received after other aid has been awarded.

Federal Supplemental Educational Opportunity Grant (FSEOG)

The Federal SEOG grant is available for undergraduates with financial need and who are eligible for Federal Pell Grant. Annual awards are determined by MSUM. This grant is renewable on a "first-applied, first-awarded" basis to students who meet the February 15 priority date. This grant is limited to students who have not received a baccalaureate degree and who continue to demonstrate exceptional financial need.

College Work Study (Federal and Minnesota)

Students have the opportunity to earn money toward their educational expenses through part-time work. Employment is usually in campus offices, departments, or off-campus non-profit agencies. Working an average of 10-15 hours per week, students can earn from \$300 to \$1,400 each semester. The actual amount varies with work schedule, pay rate, and students' demonstrated financial need. Priority is given to early applicants and students with previous successful employment on campus.

The Work Study and non-Work Study employment earnings are paid at regular two-week intervals based on hours actually worked. Signed time sheets are required for all student employees.

Federal Perkins Loan

Undergraduates may borrow up to \$4,000 annually and up to a total of \$20,000 during four years. Students must demonstrate exceptional financial need. This loan is to be repaid at 5% interest on the unpaid balance starting nine months after the student leaves the University. It has a maximum repayment period of 10 years and a minimum monthly payment of \$40. A portion of the principal and interest may be cancelled for certain types of public service employment after graduation. Priority is given to early applicants.

Federal Direct Student Loans

Undergraduate students may borrow from \$2,625 to \$5,500 annually, based on grade level and need, at low interest from the Federal government. For Direct Subsidized loans, students must demonstrate financial need and the interest is paid by the Federal government while students are in school. Students pay the interest while in school on Unsubsidized Direct loans and are not required to demonstrate financial need. Independent students have expanded Unsubsidized Direct loan eligibility up to an additional \$5,000. Under the standard repayment plan, principle and interest begin six months after leaving school with a minimum payment of \$50 per month based on the total amount borrowed. Maximum borrowing limits are based on the combined borrowing through Subsidized and Unsubsidized programs. Students pay origination fees on each loan disbursement.

Minnesota Student Educational Loan Fund (SELF)

This loan is available to graduate and undergraduate students who need additional aid beyond the Federal loan amount offered. Students must be enrolled in a degree program or seeking an additional major or minor. Eligibility is not based on financial need, nor is it limited by family income levels. It requires a credit-worthy co-signer.

Freshmen and sophomores may borrow up to \$6,000 per year and juniors and seniors up to \$7,500 per year. The interest rate is variable and the borrower is responsible for payment of interest while in school.

Parent Loans for Undergraduate Students (PLUS)

These loans are available through the Department of Education for students and parents who do not demonstrate financial need, or who need more assistance than is available in the Federal Direct Loan. Federal PLUS can be used to replace the contribution that is expected from students and families. The interest rate is variable and set annually. Before applying for a Federal PLUS, students should apply for all other types of financial aid.

Alternative Educational Loans

Intended for students who have a gap between their cost and financial aid. These bank loans generally require a co-signer. Other sources should be utilized first.

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. Job information is available at the Job Shop (located in the Office of Scholarship and Financial Aid) or online at: www.mnstate.edu/dragonjobs.

Short-Term Loans

Emergency Loans assist in unforeseen family, medical or personal circumstances. Loan amounts range from \$50 to \$300 maximum. Loan periods range from 10 to 90 days. Due dates are normally set no later than the end of the current semester. Loan costs are an interest rate of 9% per annum with a minimum charge of \$5.00. Applicants must be currently enrolled students. Loan approval is based on fund availability, credit history of prior loan repayments, student enrolled/paid status, and GPA status. Any Federal loan funds, scholarships, or grants subsequently received by the student must be applied to outstanding short-term loan obligations regardless of the due date of the short term loan.

International Student Assistance

Non-U.S. residents planning to attend Minnesota State University Moorhead must plan to provide their own finances. International students in the United States on student visas are not eligible for Federal Perkins, Federal SEOG, Work Study, Minnesota State Grants, Federal Pell Grant, or the Federal Direct Student Loan Program. International students may qualify for an Alternative Educational Loan (such as SELF) if a United States credit-worthy co-signer is

available. Students with refugee status may be eligible for the various federal student aid programs. Contact the International Student Advisor for financial planning information.

Loan Counseling

All students, including transfer students, who are scheduled to receive a Federal Direct Loan (both Subsidized and Unsubsidized) or SELF Loan, must complete Entrance Loan Counseling before loan proceeds are disbursed. Online counseling can be completed at www.dl.ed.gov. A successfully completed quiz meets the counseling requirement. In-person sessions are available on request. Before graduating or leaving school, loan recipients are encouraged to complete Exit Loan Counseling at www.dl.ed.gov. Federal Perkins loan borrowers are sent entrance counseling materials with their awards and are required to do exit counseling before leaving school.

Policy Standards for Financial Aid Satisfactory Academic Progress

Federal and state regulations require all students make satisfactory academic progress toward completion of degree, certificate or licensure requirements to receive student financial aid. All terms of attempted enrollment are considered in determining satisfactory academic progress regardless of whether aid was awarded for the term.

Failure to meet satisfactory progress standards results in ineligibility for state and federal aid programs (including all grants, loans, campus Work Study, Vocational Rehabilitation, Post-Secondary Childcare, Indian Scholarships, and University Scholarships). Standards are published yearly. MSUM reserves the right to withdraw aid at any time if it becomes readily apparent that a student has not maintained satisfactory academic progress.

Qualitative Standard: Grade Point Average

Undergraduate: Attempted credits include all courses on student records after the fifth class day, including withdrawals, incompletes, repeats, non-credit and remedial courses. MSUM’s academic policy requires all undergraduate students to achieve the following cumulative grade point average at the points indicated:

1 - 39 credits:	1.60
40 – 71 credits:	1.90
72 or more attempted credits:	2.00

Graduate: Beginning with the first attempted credit, graduate students must maintain a minimum 3.0 GPA.

Quantitative Standard: Completion Percentage

Financial aid standards require students to satisfactorily complete a minimum of 67% of their total cumulative attempted MSUM credits with a minimum grade of “D” (or “P” or “S” if enrolled on a pass/fail or satisfactory/unsatisfactory basis).

Quantitative Standard: Maximum Credits Attempted

Credits attempted to complete a degree and receive financial aid cannot exceed 150% of the credits required to complete the degree program.

- A. **Undergraduate** students become ineligible to receive funding after they have attempted 180 total semester credits at MSUM, including accepted transfer credits. Grades of Failed (F), Failed-Never Attended (FN), Unsatisfactory (U), Incomplete (I), No Credit (NC), In Progress (IP), Withdrawn (W) and blank (Z) for courses taken at MSUM count as credits attempted but not completed.
- B. Students who are enrolled in an undergraduate program and seeking a **second bachelor’s degree, teacher certification or licensure** are limited to 60 attempted semester credits in an approved degree plan.
- C. **Graduate** students are limited to 52 attempted semester credits.
- D. Students seeking a **specialist** degree are limited to 53 attempted semester credits beyond their first graduate degree. Students who have completed only a bachelor’s degree are limited to 105 attempted graduate semester credits if seeking a specialist degree.

Programs that require longer than these limits must have individual approval from the Office of Scholarship and Financial Aid through an appeal process. Students must submit for review an academic plan approved and signed by their advisor indicating the semesters remaining for degree completion, a course plan for each remaining semester, and projected graduation date. Appeals for credits in excess of 150% solely to improve GPA are not approved, unless the course is part of an approved academic plan. Submission of an appeal does not indicate automatic approval of the academic plan. Each appeal is reviewed on a case-by-case basis.

Evaluation Period

Monitoring satisfactory academic progress begins with the first credit attempted and is done at the end of every semester (fall, spring and summer).

Failure to Meet Standards

If at the end of a semester a student fails to meet MSUM Satisfactory Academic Progress qualitative or quantitative standards, MSUM will allow that student to retain his or her financial aid eligibility on a probationary status for one semester.

- A. If at the end of the probationary semester a student meets MSUM's **cumulative** qualitative and quantitative standards, MSUM will reinstate the student's eligibility for financial aid.
- B. If at the end of the probationary semester a student fails to complete 67% cumulative credits, they are placed on **financial aid suspension**.
- C. In addition to the **financial aid suspension**, if at the end of the academic probation semester a student does not meet MSUM's **cumulative** GPA (qualitative) standards, the student will be placed on **suspension from class enrollment**. The first suspension for GPA below the minimum requirements is for one semester; a second suspension for insufficient GPA is for one calendar year; a third suspension for insufficient GPA is for two calendar years.
- D. Continued Probation
 1. If at the end of a probationary semester a student who has been on probation meets MSUM's qualitative (minimum 2.0 GPA for the semester) and quantitative standards (100% completion of credits attempted that semester) required for the **probationary semester**, but has not met MSUM's cumulative standards, MSUM will permit the student to retain financial aid eligibility under a "continued probation" status. Probation status continues to be monitored each semester until the student meets MSUM's cumulative qualitative and quantitative standards, at which time the student's financial aid eligibility "good standing" status will be reinstated.
 2. If a student on "continued probation status" fails to meet MSUM's qualitative or quantitative cumulative standards or the standards required for the **probationary semester**, MSUM will suspend the student from financial aid eligibility.
- E. If MSUM determines it is not possible for the student to raise his or her GPA or course completion percentage to meet MSUM's cumulative standards before the student would reach the end of the program for which he or she is receiving financial aid, MSUM will suspend the student from financial aid eligibility immediately upon completion of the evaluation.

Notification

Students who fail to meet the minimum standards will be notified by letter when they are placed on probation or suspension. It is possible for students to be placed on financial aid suspension for failure to meet more than one type of Satisfactory Academic Progress standard. Students who have not received financial aid in the past are immediately subject to standards when they apply for financial aid.

Appeals

- A. Financial aid suspension status may be appealed to the Office of Scholarship and Financial Aid. Appeals are made on the basis of extraordinary or mitigating circumstances (major illness, death in the family, serious accident, etc.), or the successful completion of additional coursework. Each case is reviewed individually. Financial aid eligibility may be reinstated for one term with continued financial aid eligibility contingent upon the student's satisfactory completion of terms established by the Office of Scholarship and Financial Aid. The Office of Scholarship and Financial Aid informs students in writing within seven business days of its decision, provided adequate documentation was submitted by the student.
- B. If a student is not satisfied with an adverse decision, subsequent appeals are submitted to the Financial Aid & Suspension Appeals Committee.
- C. Academic Suspension status for insufficient GPA may be appealed to the Financial Aid and Suspension Appeals Committee through the Office of Academic Affairs.

Re-establishing Eligibility for Financial Aid after Suspension

Students whose financial aid eligibility has been suspended may regain eligibility only through MSUM's appeal process or when they meet the institution's satisfactory academic progress **qualitative** and **quantitative** standards. If Incomplete (I) credits are a factor in failure to maintain satisfactory progress, subsequent successful completion of these credits may be used to re-establish eligibility for aid. Paying for classes out of pocket or sitting out a period of time in and of itself is not sufficient to re-establish a student's financial aid eligibility.

Additional Elements

Treatment of Grades

- A. Credits attempted: the number of credit hours for which a student is officially enrolled at the end of the free drop/add period each semester. Credits with grades of F, FN, I, W, IP, NC and Z count as credits attempted.

- B. Credits earned: grades designated as A, B, C, D (including pluses and minuses), or P. Credits with grades of F, FN, I, W, IP, NC and Z do not count as credits earned.
- C. Percentage completion is calculated by dividing the number of earned credits by the number of attempted credits:

$$\text{Earned credits} \div \text{Attempted credits} = \text{percentage completion}$$
- D. GPA calculation: includes grades of A, B, C, D, F, FN, and pluses and minuses associated with a letter grade.

Academic Forgiveness

Credits for courses previously taken, for which academic forgiveness is granted, count in calculating percentage completion, maximum credits attempted and cumulative GPA for financial aid satisfactory academic progress.

Audit Courses

Courses taken for audit are not funded by financial aid, are not used in calculating Satisfactory Academic Progress and do not count as credits attempted or earned for purposes of financial aid.

Tri-College, Study Abroad, State University Common Market, ISEP, NSE, Consortium Agreements and other travel programs

Credits attempted and earned while participating in these programs are included in calculating satisfactory academic progress.

Remedial/Developmental Credits

Identifies credits attempted for courses numbered less than 100, including Multidisciplinary Studies (MDS) courses. By MnSCU policy, up to 30 remedial credits are excluded in calculating maximum credits attempted but included in grade point average and completion percentage calculations.

Repeated Courses

Students who repeat a course may receive financial assistance more than once for enrollment in the same course. MSUM's academic policy states 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 in a three credit course, fails it and the following semester re-enrolls in the same course and earns a C. That student would have enrolled in six credits, but successfully completed only three credits. Repeating a course more than once results in removal of only one previous grade from the GPA calculation. Once a student receives a C+, C or C- grade, the course may not be retaken again for a higher grade.

Transfer credits

Transfer credits accepted by and applied by MSUM toward a student's general education, program or degree requirements apply toward the maximum credits attempted calculation. They do not count as credits attempted for calculation of cumulative completion percentage, and grades associated with these credits are not used in calculating MSUM cumulative GPA.

Withdrawals

If a student withdraws from MSUM before financial aid is available for distribution, the student forfeits financial aid eligibility, as defined by Federal and State program regulations. If a student withdraws from all enrolled courses for any reason during the semester after student aid has been distributed, the University refund policy will be followed as administered by the MSUM Business Office.

Academic year: the period from August to May (Fall and Spring Semesters). Summer is a semester trailing the academic year.

Calendar year: the period from January through December.

Scholarship Funds

Minnesota State University Moorhead Scholarship Program

Through the MSUM Alumni Foundation and the Charles and Ellora Alliss Foundation, MSUM awards more than 500 scholarships annually to incoming freshmen, transfer students, and upperclassmen. Students must meet university admission standards and deadlines. Any scholarship dollars awarded become part of the financial aid package. Scholarship awards apply first to tuition and fee charges.

Honors Apprentice Scholarship

Offered to incoming freshmen, this scholarship for \$3,500 includes the unique opportunity to apprentice in an academic or administrative department for five hours each week, acquiring hands-on training and skills. This award is renewable for three years if academic requirements are met. Applicants must be in the top 5% of their high school class and have a composite ACT score of 28 or higher. The application form is mailed to qualifying students. February 1 deadline.

Access Scholarship

A need-based scholarship for students from culturally diverse backgrounds. Open to freshman and transfer students, provides tuition (maximum 15 credits per semester) for four years or until student receives the Bachelor's Degree, whichever is first. April 1 deadline.

Academic Excellence Award

Students who are National Merit Finalists are awarded \$3,500 per year, renewable for three years, if academic requirements are met. The National Merit certificate must be provided to the Office of Scholarship and Financial Aid. June 30 deadline.

President's Honors (\$1,500), Valedictorian (\$1,000), Dragon (\$1,000), Achievement (\$750) and University (\$500) Scholarships are automatic awards made on a first-admitted, first-awarded basis to new freshmen. These scholarships are awarded until funds are fully committed. No separate application is required.

Talent Scholarships

Available to students who demonstrate exceptional talent in areas of visual or performing arts (art, music, speech, theatre arts). Recipients and award amounts are determined by department faculty. Apply directly to the department.

Transfer Scholarship

Awarded to undergraduate transfer students pursuing their first Bachelors degree with successful college coursework completion (minimum 24 credits and 3.5 GPA). Awards range from \$300 to \$1,000. June 30 deadline.

Phi Theta Kappa (PTK) Scholarship

Awarded to undergraduate transfer students who are inducted into PTK, and meet Transfer Scholarship criteria. Five \$1000 scholarships are awarded, with a June 30 deadline.

Upper-class Honors Apprentice Scholarship

Current MSUM and transfer students may apply for a two-year apprenticeship with faculty endorsement. Minimum GPA of 3.5. \$3,500 per year. April 1 deadline.

Upper-class Academic Scholarships

Undergraduate students pursuing their first Bachelors degree with a minimum cumulative GPA of 3.25 and completion of at least 12 MSUM credits may apply. The award recognizes outstanding academic achievement, leadership and contributions to campus and community organizations. Awards are between \$300 and \$1250. Applications are accepted from November of each year until the February 1 deadline.

Athletic Scholarships

Applicants should apply directly to the men's or women's athletic departments. Athletes must meet conference and NCAA requirements for participation.

ROTC Scholarships

Both Army and Air Force ROTC offer scholarship opportunities to students who take part in an ROTC program. Scholarships pay for full tuition and fees, a book allowance, and monthly stipend. Apply to the Department of Military Science or Aerospace Studies in the Bentson/Bunker Fieldhouse at North Dakota State University.



Academic Information

Academic Change of Requirements

Within practicable limits, academic policies and requirements at Minnesota State University Moorhead 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.

Individual exceptions to major and minor requirements 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 Minnesota State University Moorhead is arranged into Fall and Spring semesters of approximately 16 weeks each and a Summer semester comprised of two five-week sessions and short-term workshop sessions. Students may enter the University at the beginning of any term although the academic year begins officially with the Fall semester.

Units of Credit

The unit of credit at Minnesota State University Moorhead is the semester hour. One semester credit is equivalent to 50 minutes of class time for each week of the semester term. The semester term at MSUM is normally 16 weeks long, including final examination periods.

For transfer students, one-quarter hour of credit is equivalent to .667 semester hour credits. One course unit from schools using the 4-1-4 plan is considered equivalent to four semester hour credits, except where the school issuing such credit assigns a different value.

Policy on Credit-Hour Definitions

MSUM recognizes that the student credit hour is a widely-used measure nationwide in universities. It is used in defining what course load is required to be a full-time student, in comparing courses between different campuses, and in a variety of other applications. However, it is not necessarily a well-defined measure of a course.

MSUM's standard is that one semester credit hour for undergraduates is meant to represent three hours of academic work per week for the average student who has the expected preparation for the courses that he or she is enrolled in.

MSUM also affirms that all grades for academic work are based on the quality of the work submitted to the instructor, not on the amount of time expended on the submitted work.

In particular, this would mean that for a 3-credit course that meets for three 50-minute periods each week, the student should expect to spend six and a half hours outside of class reading the material, doing homework, writing or researching papers, studying for exams, participating in class-specific chat rooms, etc. per week, averaged over the semester, on that class. It also means that some students will spend more or less time outside of class than others, depending on their own preparation and ability levels and their ability to use their time efficiently. A course load of 15 credit hours per semester would bear an expectation of 45 hours spent per week on academic work averaged over the semester.

If a 3-credit course meets for less than three 50-minute periods per week, it is expected that the students will be doing a larger proportion of their academic work for that class outside of the traditional classroom. If a 3-credit course meets for more than three 50-minute periods per week, it is expected that the students will be doing a larger proportion of their academic work within the classroom than they may otherwise do, which is often appropriate for laboratory or workshop classes.

MSUM also understand that the nature of specific courses and class activities may require more than three hours of work per week for each credit hour. Examples of such courses may include, but are not limited to, clinical experiences or internships, some laboratory courses, or some studio courses. Courses of this nature should make this expectation clear to the students enrolled in the course. For example, a 1-credit lab course is normally assigned two to three hours in the lab each week.

In submitting new courses for approval faculty are strongly urged to follow the above guidelines.

Graduation Requirements (Bachelor's Degree)

- 120 credits are required for all bachelor of arts degrees and a selected number of bachelor of science degrees. Most bachelor of science degrees require 128 credits. At least 40 semester hours of upper division courses (300/400 level) are required to earn any baccalaureate degree.

- Accumulation of 120 or 128 credits alone does not result in a degree. Credits must be earned as part of a baccalaureate program approved by the Board of the Minnesota State Colleges and Universities. Students are responsible for making certain their coursework fulfills requirements for a major in their designated degree.
- Candidates must have a GPA of at least 2.0 for all credits applied to the degree program and for all courses attempted at Minnesota State University Moorhead. Students should check with the major department to find out specific graduation GPA requirements.
- Freshmen admitted prior to Fall 2006 and all transfer students admitted prior to Fall 2007 may elect to complete the Dragon Core but can complete the Liberal Studies that was in place at the time they initially enrolled at MSUM. *New incoming freshmen admitted Fall 2006 or later and new incoming transfers admitted Fall 2007 or later will satisfy the University's general education requirement by completing the requirements of the Dragon Core. Both the Dragon Core and the MSUM Liberal Studies Program will be available for all previously admitted students until Fall 2009, at which time students eligible to complete the Liberal Studies program (both pre and post 1992 admits) must have finished it. [The Liberal Studies program will be available through Summer Session 2009].* Please refer to the Liberal Studies requirements website (www.mnstate.edu/acadaff/liberalstudiesbrochures/archive.htm) for specific division requirements. Two and only two credits of music performance courses may be applied towards Division D of the Liberal Studies requirements. One credit of music performance will not count.
- Beginning Fall 2006, freshmen must complete the Dragon Core requirement of a minimum of 14 courses (42 credits minimum) with a cumulative average GPA of at least 2.0 for all courses applied to the requirement. In addition, freshmen must complete five Writing-Intensive (W-I) courses.
 - ENGL 101 or an approved equivalent.
 - **Two W-I courses** in the Middle and/or Outer Cluster of the Dragon Core program - at least one course must be at the 300 or 400-level.
 - **Two W-I courses** – one course in the student's major or designated by the major at the 300 or 400-level; and the other course at the 200, 300, or 400-level, which may be designated by the major. One or both of these courses may be in the Dragon Core but are not required to be.
- Beginning Fall 2007, transfer students must have an average GPA of at least 2.0 for MSUM courses applied to Dragon Core. Additionally, incoming transfer students, including those who have completed the Minnesota Transfer Curriculum or an AA degree must take at least one Writing-Intensive (W-I) course in the student's major or designated by the major at the 300 or 400-level.

Please refer to the Dragon Core website (www.mnstate.edu/acadaff/dragoncore) for specific requirements, including Writing-Intensive requirements.
- Beginning Fall 2006, incoming freshmen must complete HLTH 122: Alcohol and College Life, a one-credit course designed to provide first year students with factual information about how alcohol and drug use affects college life.
- The degree program must include at least one major with a GPA of 2.0 or above. Certain majors may specify a higher GPA.
- All students who graduate from MSUM must complete an upper level writing requirement. Specifics on this requirement are available from the major department or advisor.
- 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 MSUM) (a) for at least two semesters, (b) for at least 30 of the last 60 credits, (c) for at least eight of the last 12 credits applied to the degree, and (d) at least six credits must be earned from the MSUM department which awards the major.
- No more than ten correspondence credits may be applied.
- An application for graduation must be submitted to the Records Office prior to the semester 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 licensure requirements listed under *Teacher Education* in this *Bulletin*.

Multiple Majors and Multiple 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 (different designation, i.e. B.A. and B.S.) will be required to complete at least 30 credits beyond the minimum of 120 or 128 credits applied to the first degree.

Students who hold a previous baccalaureate degree from Minnesota State University Moorhead or from another institution whose degree is recognized by MSUM may earn an additional bachelor's degree (degree name must be different than the initial degree, i.e. B.A. and B.S.) by:

- Completing at least 30 resident credits at MSUM;
- Meeting all MSUM course requirements for the degree program, including at least six credits from the MSUM department awarding the degree and including an approved major and teacher education requirements for any teaching major; and
- Maintaining at least a "C" average in all studies at MSUM.

Students with a previous Minnesota State University Moorhead 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.

Students completing two majors must meet departmental requirements for each major.

Four-Year Graduation Guarantee

Minnesota State University Moorhead guarantees that all undergraduate students wishing to graduate in four years will be provided necessary courses as required by the University in the student's selected major field of study. Any required courses needed beyond four years will be provided to the student tuition-free.

The graduation guarantee is offered by the following programs:

Accounting
 American Studies
 Anthropology
 Art and Design (B.A. and B.S.)
 Biosciences (B.A. in Biology)
 Business Administration
 Chemistry
 Communication Studies (B.A.)
 Computer Science and Information Systems

Criminal Justice
 Economics
 Elementary & Early Childhood Education
 English (B.A.)
 Finance
 Gerontology
 Graphic Communications
 History
 Health
 Industrial Technology
 International Business
 Management
 Marketing
 Mass Communications
 Mathematics
 Music (B.A. and B.S. in Performance)
 Paralegal
 Philosophy
 Physical Education
 Physics
 Political Science
 Psychology
 Secondary Education/Foundations (Except Life Science and Music)
 Social Work
 Sociology
 Special Education
 Speech/Language/Hearing Sciences
 Theatre Arts (B.A.)

Conditions:

The Graduation Guarantee is only effective if the following conditions are met:

- All Fall Semester freshmen wishing to participate in the graduation guarantee program must complete the guarantee application form and officially declare a major before the drop deadline (seventh day) of Fall Semester.
- All participating students must be qualified to begin without remedial courses as determined by the department and the University.
- All participating students must pre-register for classes each semester and have their class schedules approved by their official departmental advisor.
- All participating students must meet any program GPA or grade requirements as stipulated in the *Bulletin* or schedule of classes.
- All participating students must successfully complete an average course load of 16 credits, or 15 credits for B.A., each semester (32 credits, or 30 credits for B.A./year).
- Participating students selecting a major requiring a minor must choose the minor no later than the end of their first year.

- Any courses failed or repeated will void the guarantee.
- Any change in major, options, or minor will void the guarantee.
- Required internships and research projects are beyond the scope of the guarantee (except for chemistry research).

Liberal Studies Program Sunset Date

New incoming freshmen admitted Fall 2006 or later and new incoming transfers admitted Fall 2007 or later will satisfy the University's general education requirement by competing the requirements of the Dragon Core. Both the Dragon Core and the MSUM Liberal Studies program will be available for all previously admitted students until Fall 2009, at which time students eligible to complete the Liberal Studies program (both pre and post 1992 admits) must have finished it.

The Dragon Core: A signature curriculum for life-long learning

Based on Minnesota State University Moorhead's mission to develop knowledge, talent, and skills for a lifetime of learning, service, and citizenship, the Dragon Core provides a meaningful, linked, and coherent general education experience for MSUM students. Dragon Core is designed to develop engaged students who are aware of their diverse world and physical environment and who know how to productively and ethically interact with others in today's changing world.

All university baccalaureate degree programs require the completion of a minimum of 14 courses (42 credits minimum) in Dragon Core. Certain programs have degree requirements that include specific Dragon Core courses. Check the specific section of the *Bulletin* for the degree program requirements.

Purposes of Dragon Core

Minnesota State University Moorhead's Dragon Core signature curriculum provides a broad foundation of skills, information, and knowledge that go beyond a students' chosen academic field. Students will apply and extend foundational skills in written and oral communication, mathematics and critical/multicultural thinking in an array of disciplinary areas as they formulate their perspectives and challenge their values.

- **Skills** to effectively communicate ideas orally, use written language effectively and ethically, think critically and use value-sensitive modes of thought, and use mathematical and logical modes of thinking.
- **Knowledge** of natural science principles and the methods of scientific inquiry, the content of history and social sciences, the human condition and cultures, and skills and attitudes central to living in and contributing to a diverse world.
- **Perspective** to understand and appreciate the world's nations and peoples, the ethical dimensions of personal and political decisions, and the challenges of responding to environmental variables.

Dragon Core (DC) is comprised of 12 competency areas and aligns with the Minnesota Transfer Curriculum, an agreement that includes all public two and four year institutions in Minnesota.

Dragon Core Competency Areas:

DC 1A: Oral Communication – Goal: To develop speakers who can effectively communicate their ideas using appropriate organization, delivery, and supporting information.

DC 1B: Written Communication – Goal: To develop students who use written language effectively and ethically and who write, read, and think critically.

DC 2: Critical Thinking – Goal: To develop thinkers who are able to unify factual, creative, rational, and value-sensitive modes of thought. Critical thinking will be taught and used throughout the general education curriculum in order to develop students' awareness of their own thinking and problem-solving procedures. To integrate new skills into their customary ways of thinking, students must be actively engaged in practicing thinking skills and applying them to open-ended problems.

DC 3: Mathematical / Symbolic Systems – Goal: To increase students' knowledge about mathematical and logical modes of thinking. This will enable students to appreciate the breadth of applications of mathematics, evaluate arguments, and detect fallacious reasoning. Students will learn how to apply mathematics, logic and statistics in making decisions concerning their lives and careers.

DC 4: Natural Sciences – Goal: To improve students' understanding of natural science principles and of the methods of scientific inquiry. To instill an appreciation of the ongoing production and refinement of knowledge that is intrinsic to the scientific method. By studying the problems that engage scientists, students will comprehend the importance of science in past and current issues that societies confront. Students should be exposed to the contributions of multiple scientific disciplines.

DC 5: History and The Social Sciences – Goal: To increase students' knowledge of the content of history and the social sciences, and to increase their knowledge of how historians and social scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

DC 6: The Humanities – The Arts, Literature, and Philosophy – Goal: To expand students' knowledge of the human condition and human cultures, especially in relation to behavior, ideas, and values expressed in works of human imagination and thought. Through study in disciplines, such as literature, philosophy, and the visual and performing arts, students will learn to place human expression in cultural, intellectual, and historical context.

DC 7: Human Diversity – Goal: To develop the knowledge, skills and attitudes central to living in and contributing to a diverse world.

DC 8: Global Perspective – Goal: To increase students' understanding and appreciation of the world's nations and peoples. To increase understanding of the interconnectedness of the economic, social, political, cultural, artistic, and environmental systems at the global, regional, and local levels. To obviate fear generated by the unknown, and to increase the ability to function in a globalized world.

DC 9: Ethical and Civic Responsibility – Goal: To develop students' awareness of the ethical dimensions of personal and political decisions, and to cultivate their deliberative skills through respectful engagement with others whose views differ. To strengthen understanding of self-government through engagement with local issues and political processes.

DC 10: People and The Environment – Goal: To develop students' understanding of the concept of sustainability and the challenges we face in responding to environmental variables and resolving environmental problems. Students will examine how societies and the natural environment are intimately

related. A thorough understanding of ecosystems and the ways in which different groups interact with their environments is the foundation of an environmentally literate individual.

DC 11: Information Literacy – Goal: To foster researchers who have the ability to locate and investigate, organize, critically evaluate, and effectively synthesize information. Information literacy will be interwoven throughout the general education curriculum in order to develop students' academic integrity regarding their research.

Requirements

DRAGON CORE is a minimum of 14 courses (42 credits minimum) in the 10 competency areas of the Minnesota Transfer Curriculum. One additional competency area, Information Literacy is embedded in the curriculum of the other areas and satisfied through the completion of the Dragon Core.

DRAGON CORE is comprised of three Clusters - Inner, Middle, and Outer:

The Inner Cluster: 4-8 courses at the 100-level. The Inner Cluster consists of two parts:

- The Foundation Four, four courses students take to satisfy DC 1A-3.
- Up to four introductory courses from DC 3-7.

The Middle Cluster: 3-7 courses from DC 3-7. Students choose from 100-, 200-, 300-level courses.

The Outer Cluster: 3 courses from DC 8-10. Students choose from 300- and 400-level courses.

To complete the Dragon Core, students must take at least one course, in each area DC 1A-DC 10, for a total of 11 courses. The remaining three courses must be chosen from DC 3-DC 7, with no more than two courses in any one Dragon Core competency area.

Moreover, students must take one course that includes a Science Lab Experience from DC 4- Natural Sciences. This course may be completed in the Inner or Middle Cluster.

Students may apply no more than one Dragon Core course from their major rubric (i.e. biology majors – BIOL) in each of the Clusters (Inner, Middle, and Outer). This limitation applies to one major only; courses in a second major, a minor, or in "related requirements" specified by a major may be applied to the Dragon Core requirement without limitation. MDS (Corrick Center) courses may not be applied to Dragon Core except by students officially admitted and enrolled in the Corrick Center.

Students may take Inner Cluster and Middle Cluster courses simultaneously, provided students meet the Middle Cluster course requirement of applying and extending Foundation Four courses.

- Middle Cluster courses that do not include a laboratory or studio experience must list at least two Foundation Four courses as prerequisites.
- Courses with a laboratory or studio experience must list at least one of the Foundation Four courses as a prerequisite.
- Middle Cluster courses may require students to have completed one designated competency area, drawn from DC 3-7, as a prerequisite.
- A specific 100-level Inner Cluster course (rather than a DC competency area) may be listed as a prerequisite during AY 2006-07 only.

To enroll in an Outer Cluster course, students must have completed the Foundation Four, or approved equivalents, and two Middle Cluster courses in two different areas from DC 3-7.

All courses are 3-credits with the exception of courses that are comprised of 3 lecture credits and 1 laboratory or studio credit.

Only courses currently approved for Dragon Core credit may be counted toward completion of the 42 minimum credits required. Approved courses are marked by the Dragon Core competency area to which they belong (1A, 1B, 2, 3, 3I, 3M, 4I, 4M, 5I, 5M, 6I, 6M, 7I, 7M, 8, 9, 10) in each semester's class schedule. A complete list of all currently approved courses and the Dragon Core competency area and cluster to which they belong is available from the Office of Academic Affairs, or online at:

www.mnstate.edu/acadaff/dragoncore/courses.htm

Writing-Intensive (W-I) Requirements:

Dragon Core - Beginning Fall 2006, incoming freshmen must complete two W-I courses in the Middle and/or Outer Cluster of the Dragon Core curriculum – at least one course must be at the 300- or 400-level.

Graduation Requirement – In addition, beginning Fall 2006, incoming freshmen must complete two W-I courses – one course in the student's major or designated by the major at the 300- or 400-level, and the other course at the 200-, 300-, or 400-level, which may be designated by the major.

Beginning Fall 2007, incoming transfer students who have completed the Minnesota Transfer Curriculum or an AA degree must take at least one Writing-Intensive course in the student's major or designated by the major at the 300- or 400-level.

(See the *Dragon Core Worksheet* for planning purposes.)

Courses taken for Pass/No Credit grades may not be applied to Dragon Core. MDS courses taken by Corrick Center students are an exception to the policy. Such courses are only graded Pass/No Credit.

In addition to the graduation requirement of a GPA of 2.0 in all MSUM courses, an overall cumulative 2.0 GPA is required in Dragon Core. Certain degree programs may require higher Dragon Core GPAs.

Check with the department for more information.

Liberal Studies

Liberal Studies Program Sunset Date

New incoming freshmen admitted Fall 2006 or later and new incoming transfers admitted Fall 2007 or later will satisfy the University's general education requirement by competing the requirements of the Dragon Core. Both the Dragon Core and the MSUM Liberal Studies program will be available for all previously admitted students until Fall 2009, at which time students eligible to complete the Liberal Studies program (both pre and post 1992 admits) must have finished it.

The Minnesota State University Moorhead Liberal Studies program is designed to provide a broad base of knowledge and cultural themes derived from the diversity and universality of human experience. Through this requirement, students gain exposure to basic thought and interpretations provided by various disciplines so as to enhance the quality of their participation in and understanding of the world around them. Liberal Studies courses involve more than a knowledge base alone by seeking integration and synthesis of knowledge and ideas. Courses which focus on the application of knowledge to career development should be reserved for the major, minor, and/or elective programs. Finally, the Liberal Studies Program should provide a basis for lifelong learning.

All university baccalaureate degree programs require the completion of 45 semester hours in Liberal Studies. Certain programs have degree requirements that include specific Liberal Studies courses. Check with the specific section of the *Bulletin* for the degree program.

Purposes of the Liberal Studies Program

Minnesota State University Moorhead's Liberal Studies requirement seeks to introduce the perspectives, contributions, limitations, and inter-relationships that diverse disciplines bring to the world of ideas and knowledge. It seeks to instill the joy of learning through courses prepared for this purpose while seeking to achieve the following objectives.

Students should understand:

- their work, society, and self in an objective and critical manner;
- the past, so as to more intelligently cope with the present and future;
- the scientific method;
- the development and diversity of American civilization and culture;
- cultures and geographic regions other than their own in an increasingly complex and interdependent global community; and
- major intellectual, scientific, and artistic contributions of Western and non-Western civilizations.

Students should develop:

- a positive attitude toward lifelong learning and various modes of inquiry;
- the ability to learn independently;
- the abilities needed to adapt to diverse situations and contribute as citizens of a changing society;
- a respect for the complexity of the natural and social worlds and an appreciation for their interdependence;
- a respect for the rights and values of others and for cultures different from their own; and
- a sense of aesthetic standards in judging creative works.

The Liberal Studies divisions are as follows:

Division A: English Composition and Literature - Effective reading and writing lie at the heart of a university's mission. In English 101 and 102 students develop their ability to read and write with skill and honesty; to advance and defend their assertions; to make responsible use of library and other research sources; and to test their ideas in discussion. Through their encounters with exemplary works of literature they are encouraged to deepen their understanding of people and cultures and come to better understand what they believe.

Division B: Natural Sciences and Their Processes - Courses in the natural sciences prepare students to make connections between concrete observations and scientific interpretations and to use appropriate methods of inquiry and analysis to solve complex problems. Through this process, students can become

more aware of the experience of the world around them and more appreciative of the important part science and scientific reasoning play in everyday life.

Division C: Behavioral and Social Sciences - Courses in the behavioral and social sciences will expose students to various approaches and methodologies used in the study of human behavior and human interactions. Through the various social science disciplines, students will examine the influence of societal, geographic, economic, and/or political systems, as well as historical and individual forces that motivate and shape human interactions.

Division D: Western Tradition: Humanities and Fine Arts - In humanities and fine arts courses, students learn to integrate the major artistic, literary and intellectual movements that have shaped Western culture. They are challenged to enhance their own skills for analyzing creative works and to think and write critically about great humanistic questions. A significant goal is to place humanistic learning in cultural, intellectual, and historical context.

Division E: Communicative and Symbolic Processes - Courses in communicative and symbolic processes involve a study of language in two areas: (a) in written and oral languages for communication; and (b) in symbolic and Mathematical languages for problem solving. Students will expand their development of skills in their use of written, oral, and symbolic languages to communicate ideas, to analyze and to solve problems, to apply inductive and/or deductive reasoning, and to understand other people.

Division F: Multicultural and Global Studies - Courses in global and multicultural studies illustrate the maxim that one cannot understand one's own culture except through the lens of another. Global studies courses are designed to help students explore the origins, contributions, and growing interdependence of diverse peoples of the world and to examine the inter-relationships among environment, social organization and ideology in various regions. Multicultural studies courses help students realize that diverse ethnic groups in the U.S. contribute distinctive cultural features and patterns which are authentic parts of our cultural mosaic. The courses also increase students' awareness of the origins and results of inter-group prejudice.

Requirements

Division A: English Composition and Literature – English 101 and 102 - at least six credits required.

Division B: Natural Sciences and Their Processes – at least six credits required and must include one course designated B1 (natural sciences courses with an

observational/experimental component). Designated courses are from anthropology, astronomy, biology, chemistry, geoscience, and physics.

Division C: Behavioral and Social Sciences – at least six credits required. Designated courses are from anthropology, art, economics, geoscience, history, political science, psychology, and sociology.

Division D: Western Tradition: Humanities and Fine Arts – at least six credits required and must include one course designated D1 (those courses in western tradition that are substantially historical in perspective). Designated courses are from American studies, art, English, courses in foreign language literature, humanities, music, philosophy, communication studies, and Women’s Studies.

Division E: Communicative and Symbolic Processes – at least six credits required and must include one course designated E, (designated courses are from English and foreign languages, philosophy, and communication studies) and one course designated E1 (courses which are college-level Mathematics).

Division F: Multicultural and Global Studies – at least six credits required and must include one course in Division F (designated courses are from anthropology, art, foreign languages, economics, English, geoscience, humanities, music, philosophy, sociology and communication studies) and one course in Division F1 (designated courses are from American Studies, anthropology, economics, English, history, geoscience, American multicultural studies, philosophy, sociology and communication studies).

A complete list of all currently approved courses and the areas to which they apply is available from the Office of Academic Affairs.

(See the *Liberal Studies Worksheet for planning purposes on page 65.*)

Only one course in a student’s major discipline may be applied to the Liberal Studies requirement. This limitation applies to one major only; courses in a second major, a minor, or in “related requirements” specified by a major may be applied to the Liberal Studies requirement.

MDS courses may not be applied to Liberal Studies except by students officially admitted to the Corrick Center for General Education.

Two and only two credits of music performance courses may be applied towards Division D of the Liberal Studies requirements. One credit of music performance will not count.

Students admitted Fall 2001 and later must complete courses in F and F1. Students admitted prior to that time can use two F1 courses.

Courses taken for Pass/No Credit grades may not be applied to Liberal Studies. An exception to this policy is grades for MDS courses taken by MDS students. Such courses are only graded Pass/No Credit.

In addition to the graduation requirement of a GPA of 2.0 in all MSUM courses, a 2.0 average GPA is required in the Liberal Studies. Certain degree programs require higher Liberal Studies GPAs. Check with the department for more information.

Students enrolled before Fall 1992 may apply completed courses from the general education program in effect at the time of their initial enrollment at MSUM. Students who entered under earlier programs (Liberal Arts or General Studies) may use any courses lettered A-E to satisfy divisional areas of the same letter to complete remaining requirements.

Only courses currently approved for Liberal Studies credit may be counted toward completion of the 45 credits required. Approved courses are marked by the Liberal Studies division to which they belong (A, B, B1, C, D, D1, E, E1, F, or F1) in each semester’s class schedule. A complete list of all currently approved courses is available from the Office of Academic Affairs, or online at: www.mnstate.edu/acadaff/liberalstudiesbrochures/archive.htm.

Minnesota Transfer Curriculum

The Minnesota Transfer Curriculum was created by mutual agreement of the University of Minnesota, the Minnesota State Universities, the Minnesota Community Colleges, and the Minnesota Technical Colleges. Students completing the specified transfer curriculum at one Minnesota institution will be deemed to have satisfied the general education requirements of the latter institution.

In order to complete the MSUM transfer curriculum, a student must complete the following requirements, based upon ten area of emphasis. PLEASE NOTE: completing the Minnesota Transfer Curriculum does not guarantee requirements for the major have been met. Check the *Bulletin* for degree requirements.

Written and Oral Communications - two courses (6-8 credits).

Courses meeting these requirements may be found in Liberal Studies Divisions A and E, or Dragon Core Competency Areas 1A and 1B, except foreign language courses count in the global area (see Global Perspective).

Critical Thinking - one course (3-4 credits)

Courses meeting these requirements may be found throughout the Liberal Studies curriculum or Dragon Core Competency Area 2.

Natural Science - two courses (6-10 credits)

Courses meeting these requirements may be found in Liberal Studies Division B and B1 (but at least one course must be a B1 course) or Dragon Core Competency Area 4.

Mathematics/Symbolic Systems - one course (3-4 credits)

Courses meeting this requirement are found in Liberal Studies Division E1 or Dragon Core Competency Area 3.

History and the Social and Behavioral Sciences -

two courses from two areas (6-8 credits).

Courses meeting these requirements may be found in Liberal Studies Division C or Dragon Core Competency Area 5.

The Humanities - the Arts, Literature and

Philosophy - two courses from two areas (6-8 credits).

Courses meeting these requirements may be found in Liberal Studies Division D, including D1 courses or Dragon Core Competency Area 6.

Human Diversity - one course (3-4 credits).

Courses meeting this requirement may be found in Liberal Studies Division F1 or Dragon Core Competency Area 7.

Global Perspective - one course (3-4 credits)

Courses meeting this requirement may be found in Liberal Studies Division F, as well as foreign language courses above the beginning level from Liberal Studies Division E or Dragon Core Competency Area 8.

Ethical and Civic Responsibility - one course (3-4 credits).

Courses meeting this requirement may be found in selected offerings (see list of courses) or Dragon Core Competency Area 9.

People and the Environment - one course (3-4 credits)

Courses meeting this requirement may be found in selected offerings (see list of courses) or Dragon Core Competency Area 10.

A minimum of 45 semester credits must be completed in the above ten areas. Courses may be applied in more than one goal area of the Transfer Curriculum; however, the credits for any course may count only once towards the total requirement.

Listed below are all currently approved courses and the areas to which they apply.

Minnesota Transfer Curriculum Courses**1. Communications, 2 courses 6-8 semester credits**

CMST	100	Speech Communication (3)
CMST	105	Beginning Oral Interpretation (3)
CMST	111	Argumentation and Debate (3)
CMST	210	Introduction to Communication Theory (3)
CMST	308	Small Group Communication (3)
CMST	310	Rhetorical Theory and Criticism (3)
CMST	311	Principles of Persuasion (3)
ENGL	101	English Composition I (3)
ENGL	102	Composition and Literature II (4)
ENGL	111	Composition for Non-Native Speakers (3)
ENGL	112	Composition for Non-Native Speakers II (3)
ENGL	285	Scriptwriting (4)
ENGL	286	Practical Writing (3)
ENGL	288	Introduction to Creative Writing (3)
ENGL	387	Technical Report Writing (4)
ENGL	463	History of the English Language (3)
MDS	110	Expressive Writing (3)*
MDS	111	Expository Writing (3)*
MDS	115	Interpersonal Communication (3)*
THTR	230	Principles of Acting (3)

2. Critical Thinking, 1 course 3-4 semester credits

AMSC	100	America's Mosaic (3)
ANTH	100	Debating Humankind (3)
ART	320	Philosophy of the Arts (3)
BIOL	100	Issues in Human Biology (3)
BIOL	236	Introduction to Microbiology (3)
CHEM	200	General Chemistry I (4)
CHEM	210	General Chemistry II (4)
CMST	111	Argumentation and Debate (3)
CMST	310	Rhetorical Theory and Criticism (3)
CMST	311	Principles of Persuasion (3)
CSIS	152	Introduction to Computers and Programming (4)
CSIS	220	Digital Logic and Lab (4)
CSIS	250	File Organization, Processing, Maintenance and Reporting (4)
CSIS	251	Assembly Language Programming (3)
ECON	100	The American Economy (3)
ECON	202	Principles of Economics I: Micro (3)
ECON	204	Principles of Economics II: Macro (3)
ENGL	159	Cultural Perspectives in Literature (3)
ENGL	163	Who is a Hero? (3)
FILM	280	History of Film (3)
FILM	281	Film Appreciation (3)
GEOS	102	Geology in the National Parks (3)
GEOS	170	Earth Science Today (3)
HIST	101	Critical Issues in U.S. History (3)
MATH	102	Introduction to Mathematics (3)
MATH	105	Contemporary Mathematics (3)
MATH	127	College Algebra (3)
MATH	142	Pre-Calculus (4)

MATH 143	Trigonometry (3)	BIOL 321	Invertebrate Zoology (3)
MATH 229	Fundamentals of Applied Mathematics (3)	BIOL 322	Vertebrate Zoology (3)
MATH 234	Introduction to Probability and Statistics (4)	CHEM 102	Survey of Basic Principles of Chemistry (3)
MATH 236	Applied Statistics (4)	CHEM 104	Environmental Chemistry (3)
MATH 238	Statistical Methods (2)	CHEM 110	Fundamentals of Chemistry (4)
MATH 261	Calculus I (4)	CHEM 180	Introduction to Organic and Biochemistry (4)
MATH 262	Calculus II (4)	CHEM 185	Introduction to Organic and Biochemistry Lab (1)
MATH 303	Foundations of Number Systems (3)	CHEM 200	General Chemistry I (4)
MATH 304	Informal Geometry (3)	CHEM 210	General Chemistry II (4)
MATH 323	Multi-Variable and Vector Calculus (4)	CHEM 212	Principles of Biochemistry (4)
MDS 179	Multicultural American Literature (3)*	GEOS 102	Geology in the National Parks (3)
MUS 140	Thinking Musically: Critical Thinking in Multi-musical America (3)	GEOS 115	Physical Geology (4) and
PHIL 101	Introduction to Western Philosophy (3)	GEOS 115L	Physical Geology Lab (0)
PHIL 105	Philosophical Thinking (4)	GEOS 116	Historical Geology (3)
PHIL 110	Practical Reasoning (3)	GEOS 117	Water, Land, People (4)
PHIL 115	Contemporary Moral Issues (3)	GEOS 170	Earth Science Today (3)
PHIL 120	World Religions (3)	GEOS 305	Oceanography (3)
PHIL 220	Philosophy of Education (3)	GEOS 330	Elementary Meteorology (3)
PHIL 235	Philosophy of Sex and Love (3)	GEOS 360	Planetary Science (3) and
PHIL 265	Philosophy of Science (3)	GEOS 360L	Planetary Science (0)
PHIL 300	History of Ethics (4)	HON 315	Science and Time (3)
PHIL 301	Philosophy of Religion (3)	HON 318	Issues of the Nuclear Age (3)
PHIL 303	Classical Philosophy (4)	MDS 180	Plants and Humans I (2)*
PHIL 311	Morals and Medicine (3)	MDS 181	Plants and Humans II (2)*
PHIL 314	Introduction to Feminist Theory (3)	MDS 182	Ethnobotany: Plants, People and Culture (3)*
PHIL 320	Philosophy of the Arts (3)	MDS 185	Humans and Their Environment (3)*
PHIL 340	Symbolic Logic (3)	MDS 192	Science of the Human Body (4)*
PHIL 355	Existentialism (3)	MDS 195	Introduction to Astronomy (3)*
SOC 110	Introduction to Sociology (3)	MDS 196	Foundations of Physical Science (4)*
SOC 210	Social Problems (3)	MDS 197	Natural Phenomena (3)*
SOC 220	Social Deviance (3)	MDS 198	Science of Energy Technologies (3)*
SOC 230	Social Psychology (3)	MDS 233	Human Sexuality (3)*
SOC 302	Social Theory (3)	PHYS 101	Introduction to Physics (3)
SOC 315	Population (3)	PHYS 105	Physics of Music (3)

3. Natural Science, 2 courses 6-10 semester credits, one course must include a laboratory or observational/experimental component

ANTH 120	Introduction to Physical Anthropology (3)
ANTH 270	Human Biological Variation (3)
AST 102	Solar System Astronomy (3)
AST 104	Stellar Astronomy (3)
AST 360	Planetary Science (3)
AST 365	Cosmology (3)
BIOL 102	Matter and Life (3)
BIOL 103	Humanity and the Ecosystem (3)
BIOL 104	Human Biology (3)
BIOL 111	Cell Biology (4)
BIOL 115	Organizmal Biology (4)
BIOL 170	Exploring Biology (3)
BIOL 226	Field Biology of Plants (3)
BIOL 236	Introduction to Microbiology (3)
BIOL 300	Biology of Women (3)
BIOL 305	General Botany (4)

PHYS 101	Introduction to Physics (3)
PHYS 105	Physics of Music (3)
PHYS 160	College Physics I (4)
PHYS 161	College Physics II (4)
PHYS 200	General Physics I (4)
PHYS 201	General Physics II (4)
PSCI 170	Physical Science I (3)
SCI 110	Science Tech and Society (3)
WS 300	Biology of Women (3)

4. Mathematics/Logical Reasoning, 1 course 3-4 semester credits

MATH 102	Introduction to Mathematics (3)
MATH 105	Contemporary Mathematics (3)
MATH 127	College Algebra (3)
MATH 142	Pre-Calculus (4)
MATH 143	Trigonometry (3)
MATH 229	Fundamentals of Applied Mathematics (3)
MATH 234	Introduction to Probability and Statistics (4)

MATH	236	Applied Statistics (4)
MATH	238	Statistical Methods (2)
MATH	244	Applied Biostatistics (4)
MATH	261	Calculus I (4)
MATH	262	Calculus II (4)
MATH	303	Foundations of Number Systems (3)
MATH	304	Informal Geometry (3)
MATH	323	Multi-Variable and Vector Calculus (4)
MDS	119	Contemporary Mathematics (3)*
MDS	120	Mathematics for Liberal Studies (3)*
MDS	123	Mathematic Ideas (4)*
MDS	123A	Mathematical Ideas (2)*
MDS	123B	Mathematical Ideas (2)*
MDS	205B	Group Dynamics/Interpersonal Communications (2)*
PHIL	340	Symbolic Logic (3)

5. History and Social/Behavioral Sciences, 2 courses from 2 areas, 6-8 semester credits

ANTH	115	Introduction to Archaeology (3)
ANTH	216	The Paleolithic Age (3)
ANTH	217	The Rise of Civilization (3)
ANTH	318	Archeology and the Bible (3)
ANTH	348	Ideas of Culture (3)
ART	455	Psychology of the Arts (3)
CMST	110	Introduction to Communication Studies (3)
ECON	100	The American Economy (3)
ECON	202	Principles of Economics I: Micro (3)
ECON	204	Principles of Economics II: Macro (3)
GEOS	110	Introductory Physical Geography (3)
GEOS	235	Geography of Minnesota and North Dakota (3)
GEOS	320	Economic Geography (3)
HIST	104	World History I (3)
HIST	105	World History II (3)
HIST	121	History of the U.S. to 1877 (3)
HIST	122	History of the U.S. Since 1877 (3)
HIST	321	History of Britain I (3)
HIST	322	History of Britain II (3)
HON	300	American Society (4)
HON	306	Human Nature in the Western Tradition (3)
MDS	104	Values, Choices, and Behavior (4)*
MDS	107	Human Growth and Development (3)*
MDS	126	Athletics in the U.S. (3)*
MDS	130	Marriage and the Family (3)*
MDS	175	The Fabulous 50s (3)*
MDS	205A	Group Dynamics/Theory (2)*
MDS	227	Corporations: History, Structure, Influence (3)*
MDS	228	The Automobile in America (3)*
MDS	229	Perspectives on 1980 (3)*
MDS	232A	Women's Roles and Socialization in the 19 th and 20 th Century America (2)*

MDS	233	Human Sexuality (3)*
POL	105	Making Sense of Politics (3)
POL	120	American National Government and Politics (3)
POL	160	International Relations (3)
POL	221	State and Local Government (3)
POL	230	Introduction to the Law (3)
PSY	113	General Psychology (3)
PSY	202	Developmental Psychology (3)
PSY	220	Social Behavior (3)
PSY	261	Personality (3)
PSY	265	Health Psychology (3)
PSY	310	Psychology of Women (3)
PSY	324	Environmental Psychology (3)
PSY	455	Psychology of the Arts (3)
SOC	110	Introduction to Sociology (3)
SOC	210	Social Problems (3)
SOC	220	Social Deviance (3)
SOC	230	Social Psychology (3)
SOC	302	Social Theory (3)
SOC	315	Population (3)
SOC	320	Sociology of the Family (3)
SOC	322	Urban Sociology (3)
SOC	325	Social Movements (3)
SOC	330	Sociology of Religion (3)
SOC	333	Sociology of Gender (3)
SOC	375	Sociology of Health and Medicine (3)
SOC	412	Sociology of Complex Organizations (3)
WS	232A	Women's Roles and Socialization in 19 th and 20 th Century America (2)
WS	320	Sociology of Family (3)
WS	333	Sociology of Gender (3)

6. Humanities and Fine Arts, 2 courses from 2 areas, 6-8 semester credits

AMST	117	Introduction to the American Culture (3)
AMST	221	20 th Century I (4)
AMST	222	20 th Century II (4)
AMST	317	The Midwest (3)
AMST	350	American Popular Culture (3)
ART	100	Elements of Art (3)
ART	170	Art Appreciation (3)
ART	233	History of Art I: Prehistory through the Middle Ages (4)
ART	234	History of Art II: Renaissance through Modern (4)
ART	320	Philosophy of the Arts (3)
ENGL	183	Introduction to the American Short Story (3)
ENGL	211	Major British Writers I (4)
ENGL	212	Major British Writers II (4)
ENGL	214	Introduction to Shakespeare (3)
ENGL	234	Mythology (3)
ENGL	240	Masterworks (3)
ENGL	241	Modern American Literature (3)

ENGL 246	Women in Literature (3)	MDS 175	The Fabulous 50s (3)*
ENGL 281	World Literature (3)	MDS 176	Voyage of the Hero (3)*
ENGL 282	Literature for Non-majors (3)	MDS 232B	Women's Roles and Socialization in the 19 th and 20 th Century America (1)*
ENGL 301	Medieval British Literature (3)	MUS 110	Musicianship for Non-majors (2)
ENGL 302	English Renaissance Literature (3)	MUS 111	The Art of Listening (3)
ENGL 303	Literature of the English Enlightenment (3)	MUS 210	Survey of Western Music (3)
ENGL 305	The Romantic Period (3)	MUS 215	History of Jazz (3)
ENGL 306	The Victorian Period (3)	MUS 217	Pop/Rock Music for Non-Majors (3)
ENGL 307	20 th -Century British Literature (3)	MUS 218	Electronica: Influence of Music & Technology (3)
ENGL 309	Studies in American Literature (3)	MUS 240	American Music (3)
ENGL 314	Topics in Shakespeare (3)	MUS 305	Western Traditions Since 1900 (3)
ENGL 321	Early American Literature (3)	MUS 328	Ensemble for Majors (1)
ENGL 322	19 th -Century American Literature (3)	MUS 329	Ensemble Performance Class (1)
ENGL 323	20 th -Century American Literature (3)	MUS 329A	Ensemble Performance Class (1)
ENGL 343	Development of Drama I (3)	MUS 329B	Ensemble Performance Class (1)
ENGL 344	Development of Drama II (3)	MUS 329C	Ensemble Performance Class (1)
ENGL 371	Survey of American Literature I (4)	MUS 329D	Ensemble Performance Class (1)
ENGL 372	Survey of American Literature II (4)	MUS 329E	Ensemble Performance Class (1)
ENGL 410	Studies in British Literature (3)	MUS 329F	Ensemble Performance Class (1)
ENGL 411	Chaucer (3)	MUS 329G	Ensemble Performance Class (1)
ENGL 412	Spenser (3)	MUS 329H	Ensemble Performance Class (1)
ENGL 416	Milton (3)	PHIL 101	Introduction to Western Philosophy (3)
FILM 180	Understanding Movies (3)	PHIL 105	Philosophical Thinking (4)
FILM 280	History of Film (3)	PHIL 115	Contemporary Moral Issues (3)
FILM 281	Film Appreciation (3)	PHIL 220	Philosophy of Education (3)
FILM 385	International Cinema (3)	PHIL 235	Philosophy of Sex and Love (3)
HON 301	Masterpieces of Literature (4)	PHIL 265	Philosophy of Science (3)
HON 305	Good and Evil in Literature (4)	PHIL 300	History of Ethics (4)
HON 307	Transformation of the Roman World: 31 B.C. to A.D. 312 (4)	PHIL 301	Philosophy of Religion (3)
HON 312	Journeys in Literature: Classical and Medieval Masterpieces (3)	PHIL 303	Classical Philosophy (4)
HUM 101	Humanities Through the Arts (3)	PHIL 311	Morals and Medicine (3)
HUM 211	Perspectives on Society (3)	PHIL 312	Business Ethics (3)
HUM 212	Perspectives on Ultimate Reality (3)	PHIL 314	Introduction to Feminist Theory (3)
HUM 213	Perspectives on the Self (3)	PHIL 320	Philosophy of the Arts (3)
HUM 214	Classical and Medieval Worlds (4)	PHIL 355	Existentialism (3)
HUM 215	Renaissance Through the Modern World (4)	SPAN 340	Introduction to Spanish Literature (4)
HUM 219	Scandinavian Humanities (3)	SPAN 341	Survey of Iberian Literature (4)
HUM 227	Russian Humanities (3)	THTR 120	Introduction to Theatre (3)
HUM 237	Canadian Humanities (3)	THTR 321	Theatre in America (3)
HUM 314	Advanced Classical and Medieval Humanities (3)	THTR 322	Drama II (3)
HUM 315	Advanced Renaissance Through Enlightenment Humanities (3)	THTR 323	Drama III (3)
HUM 316	Advanced Romantic/Modernist/Contemporary Humanities (3)	WS 232B	Women's Roles and Socialization in 19 th and 20 th Century America (1)
HUM 333	Love in the West (3)	WS 246	Women in Literature (3)
MDS 162	Introduction to Dramatic Art (3)*	WS 247	Women's Studies (3)
MDS 171	Comedy: Society's Mirror (3)*	WS 312	Women and Humanities (3)
MDS 172	Contemporary Values Through Science Fiction (3)*	WS 314	Introduction to Feminist Theory (3)
MDS 173	Life Stages and Literature (3)*		
MDS 174	Writings from Where We Are (3)*		
		7. Human Diversity, 1 course, 3-4 semester credits	
		AMCS 102	Contemporary American Indians (3)
		AMCS 103	The Contemporary Chicanos (3)
		AMCS 203	Chicano Culture (3)
		AMCS 210	African American Humanities: Roots (4)

AMCS 211	Contemporary African Americans (3)
AMCS 225	Ojibwe Culture (3)
AMCS 233	Educational and Multicultural America (3)
AMCS 301	African American Music (3)
AMSC 303	Latinos in the United States (3)
AMCS 311	African American Art (3)
AMCS 312	Origins of Multicultural America (4)
AMCS 313	Modern Multicultural America (3)
AMCS 319	Plains Indian Cultures (3)
AMCS 320	American Indian Belief Systems (3)
AMCS 325	African American Theatre (3)
AMCS 332	Indians of the Southwest (3)
AMCS 372	Dynamics of Prejudice and Oppression (4)
ANTH 110	Introduction to Cultural Anthropology (3)
ANTH 202	American Indian Culture (3)
ANTH 210	Midwest/Plains Prehistoric (3)
ANTH 315	North American Archaeology (3)
ANTH 319	Plains Indian Cultures (3)
ANTH 320	American Indian Belief Systems (3)
ANTH 332	Indians of the Southwest (3)
CHINA 132	Introduction to Chinese Culture (3)
ECON 305	The Economics of Poverty, Discrimination, and Inequality (3)
ENGL 248	Introduction to American Ethnic Literature (3)
ENGL 352	Native American Literature (3)
ENGL 356	African American Literature (3)
HIST 220	Asian-American Culture (2)
HIST 377	African-Americans in U.S. History (3)
JAPN 142	Introduction to Japanese Culture (3)
MDS 178	World Cultures Through Literature (3)*
MDS 179	Multicultural American Literature (3)*
PHIL 102	Philosophies of Human Nature (3)
PHIL 120	World Religions (3)
PHIL 372	Dynamics of Prejudice and Oppression (4)
SOC 310	Dominant-Subordinate Group Relations (3)
SPAN 121	Introduction to Iberian Culture and Civilization (3)
SPAN 122	Introduction to Latin American Culture and Civilization (3)
THTR 325	African American Theatre (3)
WS 100	Women Today: Contemporary Women's Issues (3)
WS 310	Dominant-Subordinate Group Relations (3)

8. Global Perspective, 1 course, 2-4 semester credits

ANTH 110	Introduction to Cultural Anthropology (3)
ANTH 220	People and Cultures of Africa (3)
ANTH 302	Cultural Aspects of Aging (3)
ANTH 303	Cross Cultural Gender (3)
ANTH 316	Magic, Witchcraft and Religion (3)
ANTH 380	Traditional Cultures (3)
ART 338	Non-Western Art (4)
CHIN 132	Introduction to Chinese Culture (3)

CHIN 201	Intermediate Chinese I (4)
CHIN 202	Intermediate Chinese II (4)
CMST 300	Intercultural Communication (3)
ECON 300	Global Economic Issues (3)
ENGL 280	World Literature: East and West (3)
ENGL 380	World Literature (3)
FREN 201	Intermediate French I (4)
FREN 202	Intermediate French II (4)
GEOS 111	Cultures and Regions (3)
HIST 104	World History I (3)
HIST 105	World History II (3)
HIST 301	East Asian History I (3)
HIST 302	East Asian History II (3)
HIST 303	History of Africa I (3)
HIST 304	History of Africa II (3)
HIST 333	History of Latin America I (3)
HIST 334	History of Latin America II (4)
HUM 132	Introduction to Chinese Culture (3)
HUM 142	Introduction to Japanese Culture (3)
HUM 217	Latin American Humanities (3)
HUM 220	Introduction to East-West Humanities (3)
JAPN 142	Introduction to Japanese Culture (3)
JAPN 201	Intermediate Japanese I (4)
JAPN 202	Intermediate Japanese II (4)
MUS 216	World Music Survey (3)
PHIL 120	World Religions (3)
POL 265	International Protection of Human Rights (3)
POL 266	International Terrorism (3)
SOC 360	Latin American Issues (3)
SPAN 201	Intermediate Spanish I (3)
SPAN 202	Intermediate Spanish II (3)
SPAN 211	Intermediate Spanish Conversation I (3)
SPAN 212	Intermediate Spanish Conversation II (3)
SPAN 301	Spanish Grammar and Composition I (3)
SPAN 302	Spanish Grammar and Composition II (3)
SPAN 311	Advanced Spanish Conversation (3)
SPAN 342	Survey of Latin American Literature (4)
WS 303	Cross Cultural Gender (3)

9. Ethical and Civic Responsibility, 1 course, 3-4 semester credits

HON 318	Issues of the Nuclear Age (3)
PHIL 115	Contemporary Moral Issues (3)
PHIL 300	History of Ethics (4)
PHIL 311	Morals and Medicine (3)
POL 105	Making Sense of Politics (3)
POL 120	American National Government and Politics (3)

10. People and the Environment, 1 course, 3-4 semester credits

BIOL 103	Humanity and the Ecosystem (3)
BIOL 170	Exploring Biology (3)
BIOL 305	General Botany (4)

CHEM 104	Environmental Chemistry (3)
GEOS 117	Water, Land, and People (4)
GEOS 170	Earth Science Today (3)
GEOS 305	Oceanography (3)
GEOS 330	Elementary Meteorology (3)

*Only for students admitted to the Corrick Center for General Education

Freshman Year Requirements

- Freshmen must complete HLTH 122: Alcohol and College Life, a one-credit course designed to provide first year students with factual information about how alcohol and drug use affects college life.
- Normally, freshmen will also complete the Dragon Core Foundation Four, four specific courses from competency areas 1A, 1B, 2, and 3. Please refer to the Dragon Core website (www.mnstate.edu/acadaff/dragoncore) for specific course information and placement options for Dragon Core 1B (Written Communication) and 3 (Mathematics/Symbolic Systems).
- 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.

First Year Experience (FYE)

First Year Experience (FYE 101) is a one credit, graded course designed specifically to assist first year students with the transition to college in general, and to Minnesota State University Moorhead, in particular. It is a highly interactive course, with instructors chosen from a wide variety of Academic and Student Affairs departments.

Students who take advantage of what FYE offers usually:

- Are better prepared for the college experience
- Develop a stronger sense of belonging
- Integrate more easily into the university community
- Obtain higher grade point averages

In addition, all FYE students participate in an adventure learning program called the Challenge Course. This program, sponsored by the Minnesota State University Moorhead Regional Science Center, includes activities and experiences that teach trust, team-building, and problem-solving skills.

For more information contact the FYE Coordinator, Advising Support Center, Flora Frick Hall 153, (218) 477-4318 or visit the FYE web site at www.mnstate.edu/fye.

Advising

Academic advising is designed to assist each student in the development of a meaningful educational plan that is compatible with the student's interests, abilities, and life goals. Academic advising is an ongoing and collaborative process and requires that the student and advisor meet at least once each semester. An Academic Planning Worksheet is included in this *Bulletin* for use by students and their advisors.

Students may expect that their advisors:

- Have knowledge of the university curriculum requirements and are able to provide accurate information;
- Are informed about university policies, procedures, support services, and resources;
- Are reasonably available for consultation by having posted office hours and/or appointment times;
- Have knowledge of career opportunities and appropriate graduate programs in their fields; and
- Will refer the student to specialized institutional and community resources when necessary.

Advisors may expect that the student:

- Will make and keep appointments;
- Will prepare for advisor appointments by bringing a transcript (can be unofficial copy from the web) and giving thoughtful consideration to life/career goals, fields of study, and personal interests;
- Will keep his or her advisor informed when there are changes in objectives, course selection, academic plans, or progress;
- Will maintain up-to-date personal records of academic progress and will resolve discrepancies on official grade reports and/or other university documents; and
- Recognizes that he or she bears the ultimate responsibility for the development and implementation of his or her academic plan of study, including meeting graduation requirements.

Advisor Assignment and Changes

Students are assigned to a faculty advisor after the time of first registration. Students can find the name of their advisors on the web.

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 Major/Advisor Change Form available from the Records Office and Advising Support Center.

Individualized and University Studies Majors

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

The forms used to petition for these majors are available in the Center for Business, 100D. See *Individualized Major* and *University Studies Major* under the Academic Programs section of this *Bulletin*. For more information call (218) 477-2394.

Minors Through Tri-College University 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 MSUM student could complete a minor in, for example, agronomy or horticulture at one of the other TCU schools and, upon graduation, that student's transcript would so indicate.

Procedures for implementation of this policy are as follows:

- Students should complete the TCU minor approval form and secure signatures from the university/college granting the minor.
- The form is available in the Records Office or online at www.mnstate.edu/records.
- Submit the form with the Graduation Application to the Records Office.

Teaching Majors and Minors

Requirements for teaching major programs are listed under the respective departments in this catalog. Teacher licensure requirements are listed under Teacher Education in the Curricula section.

Associate Degree

Minnesota State University Moorhead offers the Associate in Arts degree in Liberal Arts. The degree requires:

- At least 64 semester credits, including at least 22 credits in courses from MSUM.
- A GPA of at least 2.00 in all MSUM courses applied to Liberal Studies, a 2.00 GPA in all courses applied to the A.A. degree, and a 2.00 in all courses taken at MSUM.
- Students who earn the A.A. degree must complete the Liberal Studies requirement of 45 credits. Remaining electives to fulfill the 64 credit requirement are subject to the approval of the student's faculty advisor.

- Students who are admitted to and complete the associate degree and who decide to continue with a baccalaureate program, may do so by meeting all additional requirements for the bachelor's degree, including the restriction against using more than one course from the major discipline to satisfy Liberal Studies categories.
- Completion of the AA application, secure the advisor signature, and submit to the Records Office. Questions should be directed to the Records Office.

Resident Credits

Resident credits are those registered and paid for at Minnesota State University Moorhead while attending courses offered on the Minnesota State University Moorhead campus, in Tri-College, or 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, the College Level Examination Program, or Departmental Examinations.

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 Minnesota State University Moorhead. 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 Minnesota State University Moorhead subject to limitations in this catalog.

Transfer students will receive evaluations indicating the extent and distribution of credits which are accepted by Minnesota State University Moorhead toward the Liberal Studies requirement as well as all other courses accepted for transfer.

Courses similar to those allowed for the Liberal Studies requirement at Minnesota State University Moorhead will usually be considered equivalent for

the purpose of meeting course requirements. However, the student must complete a total of at least 45 credits in Liberal Studies courses and meet all distribution requirements.

A maximum of six credits will be granted for courses from religion departments of regionally accredited public and private institutions. No courses in applied religion studies will be accepted.

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

Credit is NOT awarded for departmental examinations or waivers of credit from other institutions.

Transfer credits will not be entered on students' permanent records at MSUM unless they are applicable to students' degree programs. They will appear on a degree audit report (DARS). No transfer credit will be granted to students who have attended institutions which do not themselves have a teaching faculty, but which recommend credit based upon instruction received elsewhere. All credit evaluation will be based upon original transcripts from the original credit issuing institution.

Minnesota Transfer Curriculum

Two-Year Colleges

Transfer students who have completed an Associate in Arts program in liberal arts at a regionally accredited college or have completed the Minnesota Transfer Curriculum as prescribed by that institution, will be deemed to have met the Liberal Studies requirement at MSUM.

Transfer credits may not be applied to meet an area requirement at Minnesota State University Moorhead (Liberal Studies, major, or minor) unless they also meet the corresponding GPA requirement for the academic area.

All baccalaureate degrees require at least 40 credits of the graduation credits to be at the upper division (300-400) level.

Minnesota State University Moorhead 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: associate degrees in arts, sciences, applied sciences, and the baccalaureate degree.

Minnesota State University Moorhead will accept for transfer, as lower-division electives, a maximum of 16 semester credits of vocational or technical courses offered by technical colleges. Specific requirements in a student's major or minor field of study at Minnesota State University Moorhead may be waived upon evaluation of vocational or technical courses judged by MSUM faculty to be comparable or equivalent to courses offered by MSUM.

Any credit granted upon review will be in addition to the total of 16 credits of lower division electives.

Program Collaboration and Articulation Agreements

Minnesota State University Moorhead has a number of collaborative agreements to serve students who need to transfer with minimal loss of time and credits.

Agreements at the graduate level include programs with the Tri-College University, the University of Minnesota, and the University of North Dakota.

A number of articulated agreements to enable students to transfer into MSUM's baccalaureate programs with ease have been established. Programs exist with a number of institutions, including Alexandria Technical College, Anoka-Hennepin Technical College, Anoka Ramsey Community College, Central Lakes College, Century College, Dakota County Technical College, Hennepin Technical College, Lake Superior College, Minneapolis Community and Technical College, Minnesota West Community and Technical College, Northland Community College, Minnesota State Community and Technical College (Bemidji, Detroit Lakes, East Grand Forks, Moorhead, and Wadena campuses), Minnesota Riverland Technical College, South Central Technical College, St. Cloud Technical College, and St. Paul Technical College in Minnesota; Bismarck State College, and North Dakota State College of Science in North Dakota; and Lake Area Technical Institute in South Dakota.

Advanced Placement

Minnesota State University Moorhead 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:

- Have the approval of the high school;
- Complete the program successfully (with a score of three or higher); and
- Enroll at Minnesota State University Moorhead following high school graduation.

All official score reports 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 three (3) semester credits per examination. Credit shall be given for a specific college course if the AP exam covers substantially similar material, and AP exams will be granted the same number of credits as the course they replace. Three (3) or four (4) semester credits will be awarded for successful performance on each AP exam depending on the credit assigned to the MSUM course the AP exam replaces. If the test material does not match an existing course, students shall be given elective credit for the course.

Credit earned through AP examination is not resident credit and may not be used to satisfy resident credit requirements for graduation. AP credit may be used toward the Liberal Studies requirement or Dragon Core requirements.

Credit by Departmental Examination

Students who are in degree status may challenge a course at Minnesota State University Moorhead through an examination for credit if:

- The course can be properly evaluated on the basis of such examination,
- The appropriate department chairperson gives approval for the examination, and
- The examination fee has been paid in advance. Students must verify current enrollment in order to challenge course credit by examination.

Credit may not be granted by examination if students have previously or currently registered for an equivalent course. Credit earned through Departmental Examination is not resident credit.

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, Owens 206. Current enrollment must be verified by the Records Office. 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 \$7.50 per credit. The stamped form will be collected as an admission slip at the time of the examination at the department.

A grade of Pass or Fail ("P" 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.

International Baccalaureate

Minnesota State University Moorhead will award credit for International Baccalaureate Diplomas and for individual higher level examinations. Students who complete an IB diploma with a score of 30 or higher shall be granted eight semester credits for each of three higher level examinations, plus two semester credits for each of the subsidiary exams, for a total of 30 semester credits. No credit shall be given for subsidiary level exams other than those included as part of the IB diploma as described earlier. Students may receive credits, as described above, for any higher level exams with a score of five or higher.

IB credit may be used toward the Liberal Studies requirement. AP, IB, and/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 Records Office at Minnesota State University Moorhead will provide information about the College Level Examination Program (CLEP).

Three or four semester credits will be awarded for successful performance with a minimum score of 50 on each CLEP Subject Examination depending on the credit assigned to the MSUM course the CLEP exam replaces. Credit is not given for the CLEP General Examinations. Credit will be awarded only if students achieve 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 and the Liberal Studies categories they will fulfill:

American Government (C)
 American History I and II (C)
 American Literature (D)
 Analyzing and Interpreting Literature (D1)
 Calculus (E1)
 College Algebra (E1)
 College Algebra-Trigonometry (E1)
 College French (E)
 College German (E)
 College Spanish (E)
 Computers and Data Processing
 Educational Psychology
 English Literature (D1)
 Fortran Programming
 Freshman College Composition (A)
 General Biology (B)
 General Chemistry (B)
 General Psychology (C)
 History of the United States (C)
 Human Growth and Development
 Introductory Business Law
 Introductory Sociology (C)
 Principles of Management
 Principles of Marketing
 Principles of Macroeconomics (C)
 Principles of Microeconomics (C)
 Trigonometry (E1)
 Western Civilization I and II (C)

Credit earned by CLEP examination may be applied to Liberal Studies 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, and/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 (DANTES Exams). Because CLEP credit is introductory level course credit, students who wish to earn credit through the CLEP examination process after matriculating at MSUM must take the examination(s) during their first semester of attendance. A grade of "P" will be recorded for any exam successfully completed. Students are limited to a maximum of 12 credits through the CLEP process.

Credit for Prior Learning

MSUM recognizes that some students have learned college material prior to admission. This type of learning may occur as a result of job or volunteer experiences. MSUM provides an opportunity for its students to obtain college credit for these learning experiences. The evaluation of this type of learning is done by faculty who teach the subject matter on campus; thus credits cannot be evaluated in areas that MSUM does not have faculty expertise. Credit acquired in this manner is generally not transferable to other institutions of higher education and does not meet this university's resident credit requirement. Credit for prior learning is not granted for graduate credits.

Any student who has been admitted to a degree program at MSUM and completed a minimum of 16 credits with a GPA of 2.0 or better is eligible to apply for credit for prior learning. Application includes the presentation of a portfolio of information that validates what has been learned. For more information, contact Continuing Studies at (218) 477-5862.

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 Studies.
- Students may take no more than one course per semester for Pass-No Credit grades. Students may apply up to 16 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 GPA's.
- A grade of "P" will be recorded for any course successfully completed under the Pass-No Credit option. The grade "NC" will be recorded if the course is failed.
- 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 semester (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 "P" or Fail "F". Student teaching and internships are always 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. Classes taken for audit are not eligible for financial aid and do not count toward full-time status. Students may be billed for financial aid if classes taken for credit are later changed to audit status.

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 semester (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 semester.

An entry of "AU" (Audit) is made on a student's permanent academic record when a course is audited.

Grades and Grade Points

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

A+	4.00 Grade points per credit
A	4.00 Grade points per credit
A-	3.67 Grade points per credit
B+	3.33 Grade points per credit
B	3.00 Grade points per credit
B-	2.67 Grade points per credit
C+	2.33 Grade points per credit
C	2.00 Grade points per credit
C-	1.67 Grade points per credit
D+	1.33 Grade points per credit
D	1.00 Grade point per credit
D-	0.67 Grade points per credit
F	0.00 Grade points per credit
FN	0.00 Grade points per credit
I	Incomplete
P	Pass
IP	In Progress
AU	Audit
W	Withdrawal
EX	Exchange – used to document registration. This grade does not affect GPA or Satisfactory Progress.

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. The GPA is based on MSUM grades only. Transfer courses are not used in computing the GPA.

Credits with grades of "P", "I", "IP", "AU", "W", or "EX" are not included in computing the GPA.

Credits with grades of "F" are included in computing the GPA.

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 semester.

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 semester. (Students receiving financial aid may have specific requirements. See the *Financial Aid* section.)

The grade of "I" is reserved for students who are unable to complete course requirements within the allotted time for reasons satisfactory to the instructor and who have made arrangements for subsequent completion of coursework. If an incomplete requires substantial class attendance in a subsequent term, the student must register to repeat the course and pay tuition and fees.

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

Incompletes which have not been completed by the end of the next semester will become "F" grades.

Repeating Courses

When a course is repeated, only the higher grade will be used to compute the GPA. 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 "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" (includes the full range of C+, C, and C-) or better in that course. Such registration will be treated as an audit or if circumstances warrant, as a "W" grade.

Academic Standing

The cumulative GPA for all courses attempted at Minnesota State University Moorhead 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 Forgiveness Policy

The Academic Forgiveness Policy at MSUM gives an undergraduate student, who has been away from MSUM at least five years, a one-time opportunity to establish a new grade point average (GPA). Students who seek redress under the Academic Forgiveness Policy must meet the following conditions:

- The student must not have been enrolled at MSUM for a minimum of five consecutive years prior to the “point of academic forgiveness.”
- Upon readmission, the student must demonstrate adequate academic ability by completing 12 undergraduate credits at MSUM with a minimum GPA of 2.0 (grade of “C” or higher in each class).

Academic forgiveness cannot be granted if a student has earned a post-secondary degree following his/her initial MSUM attendance and applied MSUM credits toward that degree.

Students who meet the two conditions cited above should contact the Office of Academic Affairs (Owens 206) for the application form. After the Academic Forgiveness application has been approved, the Registrar will make the following adjustments to the student’s transcript:

- The transcript will be separated into two sections indicating the point of academic forgiveness. Academic forgiveness will be indicated on the transcript.
- No credits will be granted for any course completed at MSUM prior to the point of academic forgiveness. However, the course titles and grades from these courses will remain on the transcript.
- Calculation of the student’s grade point average will not include grades received prior to the point of academic forgiveness.

Academic Honesty

The University expects all students to represent themselves in an honest fashion. In academic work, students are expected to present original ideas and give credit for the ideas of others. The value of a college degree depends on the integrity of the work completed by the student.

When an instructor has convincing evidence of cheating or plagiarism, the following actions may be taken: assign a failing grade to the assignment in question, or assign a failing grade for the course in which the student cheated. The Student Conduct Committee may also take disciplinary action if the student is found responsible. (See the *Student Conduct Code* and the Student Handbook for details.)

Academic Probation and Suspension

Students receiving Financial Aid should also refer to the complete Satisfactory Academic Progress Policy.

Fall 2006 – This policy reflects a major change implemented by the MnSCU Board of Trustees and applies to all students, new and returning. Please read the policy carefully, as Satisfactory Academic Progress now includes a measure of the percent of credits students earn, in addition to the GPA.

Policy

All students at MSUM are required to make and maintain satisfactory academic progress. This means there are minimum cumulative GPA thresholds and a percent of credit completion that students must achieve each semester. Students are responsible for determining whether or not they are achieving satisfactory academic progress by comparing their own cumulative GPA/percent completed to the following minimum standards required by MSUM:

- At 1 to 39 total attempted credits, students must have a cumulative GPA of 1.6 or higher.
- At 40 to 71 total attempted credits, students must have a cumulative GPA of 1.9 or higher.
- At 72 or more total attempted credits, students must have a cumulative GPA of 2.0 or higher.
- All students must complete at least 67% of the credits they attempt (withdrawals, grades of F, FN, NC, Z, and incompletes count against percent completion because they result in zero credits earned for that class).

Attempted credits include all courses on students’ records, including courses currently in progress, withdrawals, repeated courses, developmental courses, and grades of incomplete. Audited courses do not count toward attempted credits.

Transfer credits are included in the attempted & earned credit numbers, but only MSUM courses are computed in the student’s GPA. Courses numbered below 100 (developmental) are not computed in the student’s GPA, but do count toward attempted and earned credits.

Each semester that a student's cumulative GPA *or* percent completion is below the required level, the student is placed on probation. Students on probation cannot pre-register for next semester classes. Students on probation must either raise their cumulative GPA/percent completion to the appropriate minimum listed above by the end of the semester, or earn a 2.0 AND 67% for the current semester in order to remain at the University. Students on probation who do not fulfill either of these requirements will be suspended. Students suspended for the first time may not return to MSUM for one semester (not including summer term). Second suspensions last one calendar year. Third and subsequent suspensions last for two calendar years. Students who are suspended may appeal their status to the Suspension Appeals Committee. Forms, information, and deadlines for the suspension appeal process are available in the Office of Academic Affairs, Owens 206.

Students who are placed on academic probation and suspension are notified by letter from the Office of Academic Affairs. Students are responsible for keeping their local and permanent addresses updated in their computerized records.

Procedure

Students are put on probation each semester that their cumulative GPA *or* percent completion remains or falls below the required standards. Probation holds are placed at the beginning of each semester after the drop/add period closes.

Being on probation prevents students from registering for future semesters. This is because probation is a warning status. When students are on academic probation, they must meet the requirements listed above, or they will be suspended and not permitted to attend the University for a specific period of time.

At the end of each semester, final grades are recorded, students who do not fulfill the requirements are suspended, and probation holds are released for students who do fulfill the requirements.

Students can be placed on probation more than once, because it often requires more than one semester to raise the cumulative GPA/percent completion to the necessary level.

Academic Honors

Three levels of honor students are recognized annually:

- Honorable Mention for those with a GPA between 3.4 and 3.59;
- Honors for those with a GPA between 3.6 and 3.79; and
- Special Honors for those with a GPA between 3.8 and 4.00.

To be eligible, a student:

- Must be registered for classes Spring semester, AND;
- Must have completed at least 15 graded credits at MSUM during the Fall semester of the current year, **OR**
- Must have:
 - a. Completed at least 60 post-secondary semester credits, including at least 30 graded semester credits at MSUM, **AND**
 - b. Completed at least 12 graded semester credits at MSUM in the Fall semester of the current year.

An Honors Convocation is held each spring for Special Honors students, and their families and advisors.

Dean's List

The Dean's list, published at the close of the Fall and Spring semesters, includes all students who are in a degree seeking status and have maintained a GPA of at least 3.25 for that semester while completing a minimum of 12 graded credits.

Graduation Honors

Students who complete at least 60 credits at Minnesota State University Moorhead as candidates for baccalaureate degrees may graduate with the following honors:

- Cum Laude, representing a cumulative GPA of 3.4 or better;
- Magna Cum Laude, 3.6 or better; and
- Summa Cum Laude, 3.8 or better.

Such honors are computed only from the cumulative GPA at Minnesota State University Moorhead. Examination credits, AP, IB, and/or CLEP credits may not be counted toward the 60 credit total.

Such honors will only be granted with the initial MSUM baccalaureate degree. Subsequent completion of additional majors or degrees will not result in the granting of additional honors citations.

Transfer students from Concordia College or North Dakota State University who have enrolled for MSUM courses under the Tri-College University course exchange program may apply such MSUM 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 the requirements established by the departments.

Classification of Students

Students at Minnesota State University Moorhead are divided into classes as follows:

Freshman	0-29 credits
Sophomore	30-59 credits
Junior	60-89 credits
Senior	90 or more credits

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

Internship Policies

- Students will not be required to return to campus after completing an Internship. Students should, however, be encouraged to return to campus to share their experiences.
- Before the starting date of the Internship, the Internship Supervisor, the Site Evaluator, and the Student Intern shall sign an Internship Agreement which outlines mutual responsibilities and expectations for the internship and contains statements clearly articulating liability assumption on the part of MSUM, the Site, and the Student Intern.
- The central location for filing and routing Internship opportunities and information to the departments is the MSUM Career Services Office.
- Minimum Standards
 - a) A minimum of one (1) semester credit and a maximum of twelve (12) semester credits will be granted for Internships.
 - b) A maximum of twelve (12) semester credits may be counted toward a degree.
 - c) An Internship will be graded only on a satisfactory/fail basis.
 - d) An Internship may be taken only by a student majoring in the department or program.
 - e) Any Intern must have at least junior standing.
 - f) Internship credits will be awarded on the basis of a minimum of forty (40) hours of fieldwork per semester per credit received.
 - g) Each Internship must have a written agreement outlining the mutual expectations and responsibilities of MSUM, the Site, the Department, and the Student Intern.
 - h) The Internship Agreement will be kept on file in the department office for six years.
 - i) Every Internship will be evaluated by the department Internship Coordinator or the Internship Supervisor.
- Departmental Expectations - all departments offering Internships must have a current Internship document on file in the Office of the Vice President for Academic Affairs, and in the Office of the Divisional Dean. The document shall include statements of the:

- a) Objectives of the Internship program
- b) Responsibilities of the Student Intern, the Faculty Supervisor, and the Site Evaluator.
- c) Departmental procedures for approving Internships.
- d) Means of reporting results or accomplishments.
- e) Method(s) of assessment.
- f) Expectations and procedures of monitoring Internship achievements.
- g) Departmental practice on faculty workload, if any.
- h) Departmental policy on Internship compensation.
- i) Name of a designated departmental Internship Coordinator.

Also, see *Internship* in this *Bulletin*.

Background Checks

Minnesota law requires that any person who provides direct contact services to people receiving services from facilities and agencies licensed by the Minnesota Department of Human Services (DHS) and/or the Minnesota Department of Health (MDH) have a background study conducted by the state. Direct contact is defined as providing face-to-face care, training, supervision, counseling, consultation, or medication assistance to people receiving services from the agency or facility. Any individual who is disqualified from having direct patient contact as a result of the background study will not be permitted to participate in a clinical placement in a DHS or MDH licensed facility or agency. Failure to participate in a clinical placement required by the academic program could result in ineligibility to qualify for a degree in this program.

Students whose programs may involve DHS or MDH licensed facilities or agencies should contact the chairperson of their major program. Forms may be obtained from the program chair.

Student Liability

Students are clearly liable for their actions and may be sued (along with others) for damages due to negligence. Minnesota State University Moorhead has a Student Professional Liability Policy which covers students engaged in internships. The coverage is for \$1,000,000 per occurrence and \$3,000,000 in aggregate.

If the student or his/her academic department or clinical practicum site does not have a formal internship agreement, and therefore does not have a formally acknowledged internship (i.e. no credit hours, etc.), the student is NOT covered by the University Student Professional Liability Policy.

Students completing their practicum work in area schools can receive liability insurance through the Education Minnesota Student Program provided they are members. For more information, check out their website at www.mnstate.edu/emsp/.

Registration Procedures

Prior to registration, students will plan a program with an advisor and receive their registration access code. Registration must be completed and all tuition and fees must be paid to the Business Office according to published deadlines in order to avoid assessment of late payment fees.

Class schedules and descriptions of the registration procedures for any semester may be secured from the Peer Advisor Office one week prior to pre-registration for that semester.

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 in advance via web registration. Registration for evening courses is closed after the seventh day of the term.

Off-Campus Registration

Minnesota State University Moorhead offers off-campus weekend and evening courses in several communities within an approximate radius of 100 miles. Off-campus courses are listed in the printed course schedule and online. Inquiries about off-campus courses should be directed to Continuing Studies at (218) 477-5862.

Late Payment

Tuition and fee payments that are made after the last scheduled payment day are late and subject to a surcharge of \$30.00. This late fee charge will be assessed on all payments made after the fee payment deadline established for each term.

Tri-College University Registration

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

To register for regular daytime classes, students must 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 Minnesota State University Moorhead if the credits are registered and paid for at MSUM.

Courses taken at MSUM by Concordia or NDSU students will count in the MSUM GPA if those students subsequently transfer to MSUM.

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 seventh day of the term.

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

Excess Credit

To register for more than 18 credits during any semester (nine credits during a summer session) students with fewer than 60 earned credits must fill out an Excess Credit form. This form must be signed by both the student's advisor and the faculty dean. No student may register for more than 20 credits without an Excess Credit Permit.

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:

- **Fall-Spring:** through the fifth class day of the semester, except for courses which begin later in the semester, or in special circumstances approved by the Registrar.
- **Fall-Spring evening and off-campus classes:** through the fifth day of the term.
- **Summer Sessions:** through the third class day of the session.

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

- **Fall-Spring:** by the end of the eleventh week (55th class day).
- **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 five class days of a semester (or equivalent for summer), unless such entry is required by the MSUM Business Office to satisfy state and federal audit procedures.

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

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 semester. 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 fully implemented.

Tuition and fees, for both day and on-campus evening classes, will not be reduced or refunded for dropped courses except during the first five days of the fall or spring semester, or the first three days of a summer course. If the course begins in the second half of the semester, the tuition and fees are fully refundable for seven days (five days in summer) after the class begins.

Withdrawal from Enrollment

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

Students who withdraw without following this procedure will receive a grade of "F" in each course and are considered "unofficially withdrawn". Financial Aid recipients who unofficially withdraw may incur repayment obligations.

"W" grades cannot be granted if the complete withdrawal takes place later than the normal withdrawal deadline of the semester. Under special circumstances, students may pursue "retroactive withdrawal" after this deadline by filing an Academic Appeal with the Office of Academic Affairs, Owens 206.

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

Military Withdrawal

A student who withdraws from the University because he/she has been called into active duty must bring the Registrar a copy of his/her military orders, including notification of the date of departure. Such a student will receive a full refund of tuition and fees without credit or grades being posted if less than 75% of the term has elapsed. In the event that 75% or more of the term has elapsed, the student will receive full credit with grades earned at the time of withdrawal. If a course relies on a final project and/or examination to determine satisfactory performance, no credit will be granted if the student withdraws prior to completion of such required work. A full refund of tuition and fees will be made for those courses in which credit is not granted. Normally, the provisions of this policy do not apply to 14 day annual active duty training requirements.

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

- The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.

Students should submit to the Registrar, Dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

- The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional

information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate education interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; representatives of the Minnesota State Colleges and Universities ("MnSCU"), including the board of Trustees, Chancellor, Chancellor's staff; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.

Upon request, the University discloses educational records without consent to officials of another school in which a student is enrolled or seeks or intends to enroll.

- The right to file a complaint with the U.S. Department of Education concerning alleged failures by Minnesota State University Moorhead to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, DC 20202-4605

- MSUM may disclose directory information of students. Directory information includes: name, local and permanent (hometown) address, e-mail address, telephone number, major and minor fields of study, class level, dates of enrollment, full-time/part-time status, awards, honors (including Dean's List), degree(s) conferred (including dates), previous educational institution(s) and dates attended, photographs taken and maintained by the University for various purposes, past and

present participation in officially recognized activities and sports, and height and weight of athletes.

You may refuse to permit the disclosure of directory information if you notify MSUM'S Registrar in writing that you do not want such information disclosed. This written refusal to permit the disclosure of directory information must be made within 45 days of the date you begin taking classes at MSUM. Students should act within two weeks to keep directory information from being published in the Fall term campus directory.

Students may review or obtain a copy of MSUM's FERPA Policy at the following offices: Records, Vice President for Academic Affairs, and Vice President for Student Affairs.

Appeal of Academic Policies

Academic Appeals can be filed to seek waiver of a graduation or Liberal Studies requirement, retroactively withdraw from a course (after the withdrawal deadline has passed), and other similar situations. Appeals to retroactively withdraw cannot be accepted if five years have passed since the course in question was taken. Students can inquire in the Office of Academic Affairs (Owens 206) whether an appeal is appropriate in their situation.

Students complete the appeal form and return it to the Office of Academic Affairs, along with appropriate supporting documentation. The Academic Appeals Committee reviews student appeals and approves or denies them. Students whose appeals are denied by the Committee may appeal to the Associate Vice President for Academic Affairs, whose decision is final.

	Credit	Grade	Grade Points
A. Freshman English (at least 6 credits)			
A _____	_____	_____	_____
A _____	_____	_____	_____
Subtotal	_____	_____	_____
B. Natural Sciences & Their Processes (at least 6 credits)			
B1 _____	_____	_____	_____
B or B1 _____	_____	_____	_____
_____	_____	_____	_____
Subtotal	_____	_____	_____
C. Behavioral and Social Sciences (at least 6 credits)			
C _____	_____	_____	_____
C _____	_____	_____	_____
_____	_____	_____	_____
Subtotal	_____	_____	_____
D. Western Tradition: Humanities and Fine Arts (at least 6 credits)			
D1 _____	_____	_____	_____
D or D1 _____	_____	_____	_____
_____	_____	_____	_____
Subtotal	_____	_____	_____
2 and only 2 credits of music performance may count toward Division D			
E. Communicative and Symbolic Processes (at least 6 credits)			
E _____	_____	_____	_____
E1 _____	_____	_____	_____
_____	_____	_____	_____
Subtotal	_____	_____	_____
F. Multicultural and Global Studies (at least 6 credits)			
F _____	_____	_____	_____
F1 _____	_____	_____	_____
_____	_____	_____	_____
Subtotal	_____	_____	_____
Totals	_____	_____	_____

Note: At least 45 credits are required with a GPA of at least 2.00

Dragon Core Worksheet

FOUNDATION FOUR

- Dragon Core 1A** (1 course) Satisfied _____

ORAL COMMUNICATION

Rubric Course Title _____ Credit Grade _____
- Dragon Core 1B*** (1 course) Satisfied _____

WRITTEN COMMUNICATION

Rubric Course Title _____ Credit Grade _____
- Dragon Core 2** (1 course) Satisfied _____

CRITICAL THINKING

Rubric Course Title _____ Credit Grade _____
- Dragon Core 3** (1 course) Satisfied _____

MATHEMATICAL / SYMBOLIC SYSTEMS

Rubric Course Title _____ Credit Grade _____

* See Written Communication Placement Options
 ** See Mathematics Placement Options

Satisfaction of DRAGON CORE requires a minimum of 42 credits, completion of Competency Areas 1A-10, Competency Area 11 that is embedded in the program and is satisfied at program completion, and Writing-Intensive Requirements.

Foundation Four (4 courses) _____

Inner Cluster Electives (0-4 courses) _____

Middle Cluster (3-7 courses) _____

Outer Cluster (3 courses) _____

DRAGON CORE Satisfied _____

INNER CLUSTER/ELECTIVES/MIDDLE CLUSTER

- Dragon Core 3** (0-1 course) Satisfied _____

MATHEMATICAL / SYMBOLIC SYSTEMS

Rubric Course Title _____ Credit Grade _____
- Dragon Core 4** (1-2 courses) Satisfied _____

NATURAL SCIENCES
 (1 course must include a Science Lab Experience)

Rubric Course Title _____ Credit Grade _____
- Dragon Core 5** (1-2 courses) Satisfied _____

HISTORY AND THE SOCIAL SCIENCES

Rubric Course Title _____ Credit Grade _____
- Dragon Core 6** (1-2 courses) Satisfied _____

THE HUMANITIES - THE ARTS, LITERATURE, AND PHILOSOPHY

Rubric Course Title _____ Credit Grade _____
- Dragon Core 7** (1-2 courses) Satisfied _____

HUMAN DIVERSITY

Rubric Course Title _____ Credit Grade _____

*1 = Inner Cluster / M = Middle Cluster
 Students must have at least three (3) Middle Cluster courses in Competency Areas 3-7.

OUTER CLUSTER

- Dragon Core 8** (1 course) Satisfied _____

GLOBAL PERSPECTIVE

Rubric Course Title _____ Credit Grade _____
- Dragon Core 9** (1 course) Satisfied _____

ETHICAL AND CIVIC RESPONSIBILITY

Rubric Course Title _____ Credit Grade _____
- Dragon Core 10** (1 course) Satisfied _____

PEOPLE AND THE ENVIRONMENT

Rubric Course Title _____ Credit Grade _____
- Dragon Core 11** (0 courses) Satisfied _____

Satisfied by completing Dragon Core Requirements
 INFORMATION LITERACY

WRITING-INTENSIVE REQUIREMENTS

Beginning Fall 2006, incoming freshmen must complete **two** W4 courses in the Middle and/or Outer Cluster of the DRAGON CORE curriculum - at least one course must be at the 300- or 400-level.

Rubric Course Title _____ Credit Grade _____

Graduation Requirements:
 In addition, beginning Fall 2006, incoming freshmen must complete **two** W4 courses - one course in the student's major or designated by the major at the 300 or 400-level; and the other course at the 200-, 300-, or 400-level, which may be designated by the major.

Rubric Course Title _____ Credit Grade _____

Beginning Fall 2007, incoming transfer students who have completed the Minnesota Transfer Curriculum or an AA degree must take at least one Writing-Intensive (W4) course in the student's major or designated by the major at the 300- or 400-level.



Curricula

The Curricula Section lists the academic departments of Minnesota State University Moorhead as of June 2006, arranged in alphabetical order by subjects. This section lists areas of study, and major and minor requirements. Credit values are expressed in semester hours and appear in parentheses following course titles. One semester credit represents one 50-minute class meeting each week for a 16-week term, although this pattern may vary for laboratory, activity and individualized courses.

Accounting

See Business

Actuarial Science

See Mathematics

Advertising

See Mass Communications

Agriculture

**Cooperative Degree Program
Biosciences Department
Hagen Hall 407, (218) 477-2572
Chair:** Donna Bruns Stockrahm

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

American Multicultural Studies

**American Multicultural Studies Department
Library Porch, (218) 477-2196
Chair:** Phyllis May-Machunda
Faculty: Jane Ball, Dieter Berninger, Wendy Geniusz, Helen Klassen

American Multicultural Studies courses develop students' knowledge and understanding of the diverse heritage of the United States in the past and present. Grounded in the historical experiences, cultural practices, literary traditions, artistic production,

intellectual contributions, political struggles, and voices of Native American Indian, African American, Chicano/Latino and Asian American peoples, American Multicultural Studies courses provide an increased level of knowledge about the multicultural foundations of the United States. By emphasizing these perspectives, we challenge misperceptions derived from the social construction of race and use interdisciplinary methods to situate these histories and viewpoints into contexts that highlight interactions with the American mainstream. As a result, students learn theoretical and applied skills central to a liberal studies education, while cultivating a greater respect for the diversity of our common humanity.

The American Multicultural Studies Department offers four areas of emphasis which can provide students in any discipline with opportunities to enhance their understanding of diverse perspectives. American Multicultural Studies courses are particularly appropriate for career fields where a broad and diverse knowledge of American society is desirable, such as in history, education, human and social services, public service, business, communications, sociology, health professions, women's studies, global studies, law and the arts.

The American Multicultural Studies Department also offers minors in the following areas:

- African American Studies
- American Indian Studies
- Chicano/Latino Studies
- American Multicultural Studies

STUDENT LEARNING OUTCOMES

Students taking American Multicultural Studies courses will:

- Demonstrate an understanding of the status, concerns, achievements, representations and experiences of African Americans, Native American Indians, Chicanos/Latinos and Asian Americans.
- Demonstrate familiarity with key concepts from core texts and from multicultural American experiences, values, beliefs and behaviors.
- Understand and analyze literary and cultural texts within their historic and cultural contexts.
- Identify and discuss complex issues in American society from critical interdisciplinary and multicultural perspectives.
- Demonstrate facility in interdisciplinary research skills and methodology.
- Deliver effective oral, written and visual presentations of research projects.
- Critically evaluate research projects and reading materials.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN AMERICAN MULTICULTURAL STUDIES (53-55 Credits)**Core Requirements (27-28 Credits)**

- AMCS 102 Contemporary American Indians (3)
- AMCS 103 Contemporary Chicanos (3)
- AMCS 210 African American Humanities: Roots (4)
- AMCS 300 Theories and Methods in American Multicultural Studies (3)
- AMCS 312 Origins of Multicultural America (4)
- AMCS 313 Modern Multicultural America (4)
- AMCS 372 Dynamics of Prejudice and Oppression (4)
- OR** SOC 310 Dominant-Subordinate Group Relations (3)
- AMCS 498 Capstone Seminar in American Multicultural Studies (3)

Related Requirements (18 Credits)

Students must choose at least 18 upper level elective credits from the courses listed below. Courses taken for the core or electives may not be taken for the related requirements. OR students may select upper level courses from English, American Studies, Languages & Cultures, Anthropology, Economics, East Asian Studies, History, Women's Studies or International Studies, with PRIOR approval from the department chair.

- AMCS 301 African American Music (3)
- AMCS 303 Latinos in the United States (3)
- AMCS 315 African American Images in Film (3)
- AMCS 319 Plains Indian Cultures (3)
- OR** ANTH 319 Plains Indian Cultures (3)
- AMCS 332 Indians of the Southwest (3)
- AMCS 390 Topics in American Multicultural Studies (1-3)
- AMCS 461 Readings: American Multicultural Studies (1-3)
- AMCS 469 Internship (3-12)
- ANTH 315 North American Archaeology (3)
- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
- ENGL 352 Native American Literature (3)
- ENGL 356 African American Literature (3)
- HIST 301 East Asian History I (3)
- HIST 302 East Asian History II (3)
- HIST 333 History of Latin American I (3)
- HIST 334 History of Latin America II (4)
- HIST 335 History of the Aztecs and the Incas (3)

- HIST 336 History of Mexico (3)
- HIST 377 African-Americans in U.S. History (3)
- HIST 378 Asian-American History (3)
- MUS 343 Jazz History (2)
- SPAN 322 Latin American Culture and Civilization (4)

Electives (8 Credits)

Students must select any three of the following courses and take a minimum of eight credits.

- AMCS 202 Traditional American Indian Cultures (3)
- AMCS 203 Chicano Culture (3)
- AMCS 211 Contemporary African Americans (3)
- AMCS 225 Ojibwe Culture (3)
- AMCS 303 Latinos in the United States (3)
- HIST 220 Asian-American Culture (2)

EMPHASIS IN AFRICAN AMERICAN STUDIES (30-31 Credits)**Core Requirements (30-31 Credits)**

Students must complete the courses listed under "Core Requirements" under the B.A. Degree in American Multicultural Studies plus the following course:

- AMCS 211 Contemporary African Americans (3)

Related Requirements (18 Credits)

Students must select at least 18 upper level credits from the courses listed below. Courses taken from electives may not count for related requirements. In some cases, courses other than those listed may be accepted as electives with departmental approval. For AMCS 390, 461, and 469 to count for related requirements in this emphasis, the content must focus on African American topics. All courses presented to satisfy this requirement are subject to approval of the department chair.

- AMCS 301 African American Music (3)
- AMCS 303 Latinos in the United States (3)
- AMCS 311 African American Art (2)
- AMCS 315 African American Images in Film (3)
- AMCS 325 African American Theatre (3)
- OR** THTR 325 African American Theatre (3)
- AMCS 390 Topics in American Multicultural Studies (1-3)
- AMCS 461 Readings: American Multicultural Studies (1-3)
- AMCS 469 Internship (3-12)
- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
- ENGL 356 African American Literature (3)
- HIST 377 African-Americans in U.S. History (3)
- MUS 343 Jazz History (2)

Electives (5-6 Credits)

Students must select two of the following courses:

- AMCS 202 Traditional American Indian Cultures (3)
- AMCS 203 Chicano Culture (3)
- AMCS 303 Latinos in the United State (3)
- ANTH 220 Peoples and Cultures of Africa (3)
- HIST 220 Asian-American Culture (2)

EMPHASIS IN AMERICAN INDIAN STUDIES (53-55 Credits)**Core Requirements (33-34 Credits)**

Students must complete the courses listed under “Core Requirements” under the B.A. in American Multicultural Studies plus these two courses:

- AMCS 202 Traditional American Indian Cultures (3)
- AMCS 320 American Indian Belief Systems (3)

Related Requirements (18 Credits)

Students must choose at least 18 upper level credits from the courses listed below. For AMCS 390, 461, and 469 to count for the related requirements in this emphasis, the content must focus on American Indian topics. All courses presented to satisfy this area are subject to approval of the department chair.

- ANTH 315 North American Archaeology (3)
- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
- ENGL 352 Native American Literature (3)
- AMCS 319 Plains Indian Cultures (3)
- OR ANTH 319 Plains Indian Cultures (3)
- AMCS 332 Indians of the Southwest (3)
- AMCS 390 Topics in American Multicultural Studies (1-3)
- AMCS 461 Readings: American Multicultural Studies (1-3)
- AMCS 469 Internship (3-12)

Electives (2-3 Credits)

Students must select one of the following courses:

- AMCS 203 Chicano Culture (3)
- AMCS 211 Contemporary African Americans (3)
- AMCS 303 Latinos in the United State (3)
- HIST 220 Asian-American Culture (2)

EMPHASIS IN CHICANO/LATINO STUDIES (53-55 Credits)**Core Requirements (33-34 Credits)**

Students must complete the “Core Requirements” under B.A. in American Multicultural Studies plus these two courses:

- AMCS 203 Chicano Culture (3)
- AMCS 303 Latinos in the United States (3)

Related Requirements (18 Credits)

Students must choose at least 18 upper level credits from the courses listed below. Courses taken from the electives may not count toward related requirements. In some cases, courses other than those listed may be accepted as electives with approval from the department chair. For AMCS 390, 461 and 469 to count for related requirements in this emphasis, the content must focus on Chicano/Latino topics. All courses presented to satisfy this requirement are subject to the approval of the department chair.

- AMCS 332 Indians of the Southwest (3)
- AMCS 390 Topics in American Multicultural Studies (1-3)
- AMCS 461 Readings: American Multicultural Studies (1-3)
- AMCS 469 Internship (3-12)
- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
- HIST 333 History of Latin America I (3)
- HIST 334 History of Latin America II (4)
- HIST 335 History of Aztecs and the Incas (3)
- HIST 336 History of Mexico (3)
- SOC 350 Methods and Statistics for Social Research (4)
- SPAN 322 Latin American Culture and Civilization (4)

Electives (2-3 Credits)

Students must select one of the following courses:

- AMCS 202 Traditional American Indian Cultures (3)
- AMCS 211 Contemporary African Americans (3)
- AMCS 332 Indians of the Southwest (3)
- HIST 220 Asian-American Culture (2)

MINOR IN AFRICAN AMERICAN HUMANITIES (22 Credits)**Requirements (10 Credits)**

- AMCS 210 African American Humanities: Roots (4)
- AMCS 211 Contemporary African Americans (3)
- AMCS 300 Theories and Methods in American Multicultural Studies (3)

Restricted Electives (12 Credits)

Students will choose twelve credits in electives from the following courses.

- AMCS 312 Origins of Multicultural America (4)
- OR AMCS 313 Modern Multicultural America (4)
- AMCS 301 African American Music (3)
- AMCS 311 African American Art (2)
- AMCS 315 African American Images in Film (3)
- AMCS 325 African American Theatre (3)
- OR THTR 325 African American Theatre (3)
- AMCS 372 Dynamics of Prejudice and Oppression (4)
- OR PHIL 372 Dynamics of Prejudice and Oppression (4)

AMCS 390 Topics in American Multicultural Studies (1-3)

AMCS 461 Readings: American Multicultural Studies (1-3)

AMCS 469 Internship (3-12)

AMCS 498 Capstone Seminar in American Multicultural Studies (3)

ANTH 220 Peoples and Cultures of Africa (3)

ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)

ENGL 356 African American Literature (3)

HIST 377 African-Americans in U.S. History (3)

MUS 215 History of Jazz (3)

OR MUS 343 Jazz History (2)

MINOR IN AMERICAN INDIAN STUDIES (18 Credits)

Requirements (12 Credits)

AMCS 102 Contemporary American Indians (3)

AMCS 202 Traditional American Indian Cultures (3)

AMCS 300 Theories and Methods in American Multicultural Studies (3)

AMCS 320 American Indian Belief Systems (3)

OR ANTH 320 American Indian Belief Systems (3)

Restricted Electives (6 Credits)

Students will choose six elective credits from the following courses. For AMCS 390, 461, or 469 to count as a restricted elective in this minor, the content must focus on American Indian topics. With prior approval, the six elective credits may possibly include ENGL 248, HIST 333, and/or HIST 311. All courses presented to satisfy the elective requirements of the minor are subject to the approval of the department chair.

ANTH 210 Midwest/Plains Prehistory (3)

ANTH 315 North American Archaeology (3)

AMCS 225 Ojibwe Culture (3)

AMCS 270 American Indian Education (3)

AMCS 312 Origins of Multicultural America (4)

AMCS 319 Plains Indian Cultures (3)

OR ANTH 319 Plains Indian Cultures (3)

AMCS 332 Indians of the Southwest (3)

AMCS 372 Dynamics of Prejudice and Oppression (4)

AMCS 390 Topics in American Multicultural Studies (1-3)

AMCS 461 Readings: American Multicultural Studies (1-3)

AMCS 469 Internship (3-12)

AMCS 498 Capstone Seminar in American Multicultural Studies (3)

ENGL 352 Native American Literature (3)

MINOR IN CHICANO/LATINO STUDIES (18 Credits)

Requirements (12 Credits)

AMCS 103 Contemporary Chicanos (3)

AMCS 203 Chicano Culture (3)

AMCS 300 Theories and Methods in American Multicultural Studies (3)

AMCS 303 Latinos in the United State (3)

Electives (6 Credits)

Students shall choose at least six semester credits from the courses listed. For AMCS 390, 461, or 469 to count as an elective in this minor, the content must focus on Chicano/Latino topics. In some cases, courses other than those listed here may be presented as electives. All courses presented to satisfy the elective requirements of the minor are subject to the approval of the department chair.

AMCS 372 Dynamics of Prejudice and Oppression (4)

AMCS 390 Topics in American Multicultural Studies (1-3)

AMCS 461 Readings: American Multicultural Studies (1-3)

AMCS 469 Internship (3-12)

AMCS 498 Capstone Seminar in American Multicultural Studies (3)

ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)

HIST 333 History of Latin America I (3)

HIST 334 History of Latin America II (4)

HIST 335 History of the Aztecs and the Incas (3)

HIST 336 History of Mexico (3)

SOC 310 Dominant-Subordinate Group Relations (3)

SOC 350 Methods and Statistics for Social Research (4)

SPAN 201 Intermediate Spanish I (3)

SPAN 202 Intermediate Spanish II (3)

SPAN 290 Topics in Spanish Language Literature, and Culture (1-4)

MINOR IN AMERICAN MULTICULTURAL STUDIES (20-22 Credits)

Requirements (18-19 Credits)

Students must take AMCS 300 and choose five from the other eight courses listed below. Students must take one course about each of the four racial/ethnic groups.

AMCS 102 Contemporary American Indians (3)

AMCS 103 Contemporary Chicanos (3)

AMCS 202 Traditional American Indian Cultures (3)

AMCS 203 Chicano Culture (3)

AMCS 210 African American Humanities: Roots (4)

AMCS 211 Contemporary African Americans (3)

AMCS 300 Theories and Methods in American Multicultural Studies (3)

AMCS 303 Latinos in the United States (3)

AMCS 312 Origins of Multicultural America (3)

AMCS 313 Modern Multicultural America (4)

HIST 220 Asian-American Culture (2)

Electives (3 Credits)

Students will choose three credits of elective courses with significant multicultural content above the 200 level which may be taken in the following departments and programs: American Multicultural Studies, American Studies, Anthropology, Economics, English, History, Nursing, Social Work, Sociology or Women's Studies. In some cases, courses from other departments or programs may be approved as electives. All courses taken to satisfy the elective requirement are subject to the approval of the department chair.

American Studies

History Department**Dragon Den, (218) 477-2812****Chair:** Steven Hoffbeck**Program Coordinator:** Erik Gooding,
Lommen Hall 201A (218) 477-4043

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.

STUDENT LEARNING OUTCOMES

Students should:

- understand and analyze literary texts within their historical context;
- identify and discuss complex issues in American society from an interdisciplinary perspective;
- demonstrate research skills and facility in interdisciplinary writing methodology;
- deliver effective oral presentations of research projects;
- critically evaluate research projects of other majors;
- demonstrate familiarity with core texts and concepts about American values, beliefs, and patterns of behavior;
- write interpretive and critical interdisciplinary analysis of selected issues in American culture.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

**B.A. DEGREE IN AMERICAN STUDIES
(46 Credits)****Requirements (10 Credits)**AMST 217 Introduction to the American Culture (3)
AMST 317 The Midwest (3)AMST 417 Seminar: Violence in American
Culture (4)**OR** AMST 419 Success in American Society (4)**Restricted Electives (18 Credits)**

Students must take eighteen credits selected from the following areas: Social Sciences, Fine Arts, Mass Communications, American Literature or American History. Students will need to plan their elective choices with their faculty advisor.

Related Requirements (18 Credits)

Students will take eighteen elective credits chosen 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 may fulfill some requirements in related fields with courses which also fulfill requirements in liberal studies and their first major. All electives are subject to advisor approval.

Anthropology and Earth Science

**Anthropology and Earth Science Department
Lommen 102, (218) 477-4217****Chair:** Michael Michlovic**Faculty:** Russell Colson, Rinita Dalan, Erik Gooding,
George Holley, Karl Leonard, Bruce Roberts,
Paul Sando**Programs in Anthropology**

The Anthropology Major provides students with an opportunity to understand people in different cultures, places, and times. Students are introduced to the vast range of human cultures, and to the relationship between human beings, their culture, and their environment. At Minnesota State University Moorhead, the major includes an introduction to the four major sub-fields of anthropology - cultural anthropology, archaeology, biological anthropology, and linguistics, along with a menu of specialized courses in cultural anthropology and archaeology. The major includes two emphases, or tracks. One is in archaeology, for students wishing to focus on the study of ancient cultures; and the other is in cultural anthropology, for those students interested in the study of contemporary cultures from a cross-cultural and global perspective. There are specialized learning experiences in the form of field and laboratory courses in archaeology, specialized training in

geophysical prospection, and a cultural tour of East Africa. The cultural tour and the archaeological field experiences are offered in summer sessions.

STUDENT LEARNING OUTCOMES

Students will exhibit an:

- understanding of the content of anthropology;
- ability to apply the concepts of anthropology to issues relevant to understanding human beings;
- an ability to think critically;
- understanding of social research, including the ability to apply research findings to human issues;
- ability to organize ideas, evidence, information and present coherent arguments;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning anthropological issues.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN ANTHROPOLOGY (40 Credits)

Core Requirements (12 Credits)

This core is required of all students who major in one of the Anthropology emphases: Cultural Anthropology or Archaeology.

- ANTH 110 Introduction to Cultural Anthropology (3)
- ANTH 115 Introduction to Archaeology (3)
- ANTH 120 Introduction to Physical Anthropology (3)
- ANTH 445 Seminar in Anthropology (3)

EMPHASIS IN ARCHAEOLOGY (40 Credits)

Core Requirements (12 Credits)

Students must complete the courses listed under "Core Requirements" under the B.A. Degree in Anthropology.

Requirements (18 Credits)

In addition to the listed courses, students in the Archaeology emphasis must take one archaeology area course, one applied archaeology course, and one upper level cultural anthropology course.

- ANTH 216 The Paleolithic Age (3)
- ANTH 217 The Rise of Civilization (3)
- ANTH 300 Archaeology (3)

Electives (10 Credits)

If students in this emphasis elect to take ANTH 450 for six credits, they will need to take only seven elective credits in Anthropology courses.

EMPHASIS IN CULTURAL ANTHROPOLOGY (40 Credits)

Core Requirements (12 Credits)

Students must complete the courses listed as "Core Requirements" under the B.A. Degree in Anthropology.

Requirements (18 Credits)

In addition to the listed courses, students in the Cultural Anthropology emphasis must take one cultural anthropology area course, one upper level topical course, and one upper level archaeology course.

- ANTH 265 Language and Culture (3)
- ANTH 348 Ideas of Culture (3)
- ANTH 380 Traditional Cultures (3)

Electives (10 Credits)

Students must take ten elective credits in Anthropology courses.

MINOR IN ANTHROPOLOGY (28 Credits)

Requirements (9 Credits)

- ANTH 110 Introduction to Cultural Anthropology (3)
- ANTH 115 Introduction to Archaeology (3)
- ANTH 120 Introduction to Physical Anthropology (3)

Electives (19 Credits)

Students, in consultation with a faculty advisor, must take nineteen credits of Anthropology electives. At least eight credits must be Anthropology courses at the 300 level or above.

Programs in the Geosciences

The Geosciences Major provides students with an opportunity to understand the Earth, including processes that have shaped its past and those that will shape its future, and the relationships among place, landscape, climate, culture, economy, and people. Students can choose one of three emphases: Geology, Geoarchaeology, or Geographical Science.

Geology is for those students interested in understanding how the Earth works presently and what has happened in Earth's ancient past. Students who choose this track will focus on our environment and its processes, stories of Earth's past, and the formation and extraction of natural resources of the Earth.

Geoarchaeology is for those students interested in understanding what geological evidence and reasoning reveal about past human cultures and activities on Earth. Students who choose this track will focus on the geological, chemical, biological, and physical methods for interpreting artifacts, sediments, and environments important in understanding our human past.

Geographical Science is for those students interested in understanding the relationships among place, people, and environment. Students who choose this track will focus on the distribution of climate, cultures, and landscapes on Earth, the reason for those distributions, and the way that these interact and effect humans and our economies.

The Earth Science Teaching major is for those students interested in teaching earth science in grades 9-12, and meets the requirements for licensure in Science (grades 5-8). Our Earth Science teaching program is particularly strong in providing in-depth coverage of the wide range of Earth Science subjects needed for Minnesota licensure, including Physical Geology, Historical Geology, Meteorology, Astronomy and Planetary Science, Oceanography, and Interaction of People with the Land.

A minor in Geosciences is also offered. Students should see an advisor concerning which geoscience courses fit their particular needs or interests.

STUDENT LEARNING OUTCOMES

Students will exhibit an:

- understanding of the basic concepts and methods of Geosciences
- ability to apply concepts and principles of Geosciences in understanding Earth process or relationships of people to the Earth
- competency in laboratory and field skills
- ability to conduct a scientific investigation or interpret the results of a Geoscience investigation including either science or social science research
- ability to reason scientifically and to organize ideas, evidence, information and arguments
- ability to use library and/or research data to support points of view
- ability to communicate orally and/or in writing concerning Geoscience problems or issues.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN GEOSCIENCES

(43-63 Credits)

Core Requirements (43-63 Credits)

Students in this major must complete coursework for one of the three emphases: Geology, Geographical Sciences, or Geoarchaeology.

EMPHASIS IN GEOLOGY (61-63 Credits)

Requirements (35 Credits)

- GEOS 115 Physical Geology (4)
- GEOS 116 Historical Geology (3)
- GEOS 301 Archaeological Prospection (3)
- GEOS 302 Mineralogy (3)
- GEOS 303 Petrology (3)
- GEOS 315 Sedimentology and Stratigraphy (3)
- GEOS 340 Economic and Environmental Geology (3)
- GEOS 370 Structural Geology and Mapping (3)
- GEOS 415 Reading Geochemical Fingerprints (3)
- GEOS 416 Paleontology (3)
- GEOS 450 Field Geology (3)
- GEOS 480 Senior Seminar (1)

Restricted Electives (6-7 Credits)

- GEOS 117 Water, Land, and People (4)
- GEOS 305 Oceanography (3)
- GEOS 320 Economic Geography (3)
- GEOS 330 Elementary Meteorology (3)
- GEOS 350 Geoarchaeology (3)
- GEOS 360 Planetary Science (3)
- GEOS 390 Topics in Geosciences (1-3)
- GEOS 405 Geographical Information Systems (3)
- GEOS 397 Research in Geosciences (1-3)
- GEOS 417 Taphonomy and Paleoecology (3)

Related Requirements (20-21 Credits)

- CHEM 200 General Chemistry I (4)
- MATH 234 Introduction to Probability and Statistics (4)
- MATH 261 Calculus I (4)
- PHYS 160 College Physics I (4)
- OR PHYS 200 General Physics I (4)
- BIOL 115 Organismal Biology (4)
- OR BIOL 305 General Botany (4)

Recommended (0 Credits)

These courses are not required, but are recommended. Students should consult with their advisor in the department concerning which courses are most appropriate for their interests and plans. It is further recommended that students obtain 3-4 credits of field experience in addition to GEOS 450.

- BIOL 345 Principles of Ecology (4)
- CHEM 210 General Chemistry II (4)
- MATH 262 Calculus II (4)
- PHYS 201 General Physics II (4)

EMPHASIS IN GEOGRAPHICAL SCIENCES

(43-45 Credits)

Requirements (28 Credits)

- ANTH 307 Ecological Anthropology (3)
- GEOS 225 Conservation (3)
- GEOS 305 Oceanography (3)
- GEOS 310 United States and Canada (3)
- GEOS 320 Economic Geography (3)

- GEOS 325 Reading Landscape: Ways of Seeing (3)
- GEOS 330 Elementary Meteorology (3)
- GEOS 405 Geographic Information Systems (3)
- GEOS 410 Eastern Europe and Russia (3)
- GEOS 480 Senior Seminar (1)

Restricted Electives (15-17 Credits)

Six to eight credits must be taken from GEOS 110, GEOS 111, GEOS 115 and GEOS 117. At least nine additional credits must be taken from the other listed courses in this area.

- ANTH 202 American Indian Culture (3)
- ANTH 220 Peoples and Cultures of Africa (3)
- ANTH 319 Plains Indian Cultures (3)
- GEOS 110 Introductory Physical Geography (3)
- GEOS 111 Cultures and Regions (3)
- GEOS 115 Physical Geology (4)
- GEOS 117 Water, Land, and People (4)
- GEOS 235 Geography of Minnesota and North Dakota (3)
- GEOS 315 Sedimentology and Stratigraphy (3)
- GEOS 340 Economic and Environmental Geology (3)
- GEOS 350 Geoarchaeology (3)
- GEOS 370 Structural Geology and Mapping (3)
- GEOS 390 Topics in Geosciences (1-3)
- GEOS 415 Reading Geochemical Fingerprints (3)
- ANTH 450 Field Work in Anthropology (6)
- OR GEOS 450 Field Geology (3)
- OR GEOS 455 Field Methods in Geoarchaeology (4)

Recommended (0 Credits)

Students should consult with their advisor in the department to determine which elective courses are most appropriate for their interests and plans.

EMPHASIS IN GEOARCHAEOLOGY (61-63 Credits)

Requirements (40-42 Credits)

- ANTH 115 Introduction to Archaeology (3)
- ANTH 300 Archaeology (3)
- GEOS 115 Introduction to Archeology (3)
- GEOS 117 Water, Land, and People (4)
- GEOS 301 Archaeological Protection (3)
- GEOS 302 Mineralogy (3)
- GEOS 303 Petrology (3)
- GEOS 315 Sedimentology and Stratigraphy (3)
- GEOS 350 Geoarchaeology (3)
- GEOS 405 Geographic Information Systems (3)
- GEOS 415 Reading Geochemical Fingerprints (3)
- GEOS 480 Senior Seminar (1)
- GEOS 455 Field Methods in Geoarchaeology (4)
- OR ANTH 450 Field Work in Anthropology (6)

Restricted Electives (9 Credits)

- ANTH 120 Introduction to Physical Anthropology (3)
- ANTH 216 The Paleolithic Age (3)
- ANTH 217 The Rise of Civilization (3)
- ANTH 315 North American Archaeology (3)
- ANTH 318 Archaeology and the Bible (3)
- ANTH 390 Topical Course in Anthropology (1-3)
- GEOS 116 Historical Geology (3)
- GEOS 325 Reading Landscape: Ways of Seeing (3)
- GEOS 340 Economic and Environmental Geology (3)
- GEOS 370 Structural Geology and Mapping (3)
- GEOS 390 Topics in Geosciences (1-3)
- GEOS 397 Research in Geosciences (1-3)
- GEOS 416 Paleontology (3)
- GEOS 417 Taphonomy and Paleocology (3)
- GEOS 450 Field Geology (3)

Related Requirements (12 Credits)

- Students must take 12 credits from those listed. Student may select from SOIL 210 Intro Soil Science (NDSU) or SOIL 444 Soil Gensis/Survey (NDSU).
- BIOL 115 Organismal Biology (4)
 - BIOL 305 General Botany (4)
 - BIOL 310 Comparative Vertebrate Anatomy (3)
 - BIOL 345 Principles of Ecology (4)
 - CHEM 200 General Chemistry I (4)
 - CHEM 210 General Chemistry II (4)
 - MATH 234 Introduction to Probability and Statistics (4)
 - MATH 261 Calculus I (4)
 - MATH 262 Calculus II (4)
 - PHYS 160 College Physics I (4)
 - OR PHYS 200 General Physics I (4)
 - PHYS 161 College Physics II (4)
 - OR PHYS 201 General Physics II (4)

Recommended (0 Credits)

Students should consult with the advisor in the department to determine which elective courses are most appropriate for their interests and plans.

B.S. DEGREE IN EARTH SCIENCE-TEACHING (100 Credits)

Requirements (29 Credits)

- Students must also fulfill all teacher licensure requirements which will add thirty-three credits to the major total. Completion of this major meets the requirements for Minnesota licensure in Science (Grades 5-8) and Earth Science (Grades 9-12).
- GEOS 115 Physical Geology (4)
 - GEOS 116 Historical Geology (3)
 - GEOS 302 Mineralogy (3)
 - GEOS 303 Petrology (3)
 - GEOS 305 Oceanography (3)
 - GEOS 315 Sedimentology and Stratigraphy (3)

- GEOS 330 Elementary Meteorology (3)
 GEOS 340 Economic and Environmental Geology (3)
 GEOS 360 Planetary Science (3)
 GEOS 480 Senior Seminar (1)
 BIOL 440 Middle School/Secondary Science
 Teaching Methods (3)
OR CHEM 440 Secondary Science Teaching
 Methods (3)

Restricted Electives (3 Credits)

- ANTH 120 Introduction to Physical Anthropology (3)
 ANTH 216 The Paleolithic Age (3)
 AST 104 Stellar Astronomy (3)
 GEOS 117 Water, Land, and People (4)
 GEOS 301 Archaeological Prospection (3)
 GEOS 320 Economic Geography (3)
 GEOS 325 Reading Landscape: Ways of Seeing (3)
 GEOS 350 Geoarchaeology (3)
 GEOS 370 Structural Geology and Mapping (3)
 GEOS 390 Topics in Geosciences (1-3)
 GEOS 405 Geographic Information Systems (3)
 GEOS 415 Reading Geochemical Fingerprints (3)
 GEOS 416 Paleontology (3)
 GEOS 417 Taphonomy and Paleoecology (3)
 GEOS 450 Field Geology (3)
 GEOS 460 Igneous and Metamorphic Petrology (3)

Related Requirements (32 Credits)

- BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 305 General Botany (4)
 CHEM 200 General Chemistry I (4)
 CHEM 210 General Chemistry II (4)
 MATH 261 Calculus I (4)
 PHYS 160 College Physics I (4)
 PHYS 161 College Physics II (4)

MINOR IN GEOSCIENCES (18 Credits)

Requirements (18 Credits)

A minimum of 18 credits must be taken from among Geosciences courses. At least 6 credits must be taken from Geosciences courses at the 100 level, and 9 credits must be at the 300 level or above. Students interested in an emphasis in geology, geoarchaeology, or geographical science should consult with a department faculty member.

Architecture

Cooperative Degree Program

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Ronald Williams

The pre-architecture program at Minnesota State University Moorhead is a cooperative program with the Department of Architecture and Landscape Architecture at North Dakota State University. Students enroll in their fundamental courses - English, mathematics, art, and the social sciences - at MSUM. Through the Tri-College University, they take their Architecture classes at NDSU while they are enrolled at MSUM. At the end of the second year, the students transfer to NDSU to complete the architecture program.

Some students elect to remain at MSUM for a third year, completing their Liberal Studies requirements and taking their third-year Architecture courses at NDSU. This can be especially advantageous for students participating in Dragon athletics and for students who qualify for Minnesota state grants. These students are encouraged to work very closely with their academic advisor to be certain that all residency requirements at NDSU are satisfied.

The Architecture program at NDSU is a limited-enrollment program. Under the cooperative agreement, MSUM students are equally eligible for available seats in the program, based on overall GPA at the end of the first year. Architecture at NDSU is a five-year program, with sequential courses required every semester. Students must enroll in courses at NDSU each semester in order to complete the program on time.

CURRICULUM IN PRE-ARCHITECTURE

(60 Credits)

Requirements (24 Credits)

- ANTH 110 Introduction to Cultural Anthropology (3)
 CMST 100 Speech Communication (3)
 ENGL 101 Composition and Literature I (3)
 MATH 102 Introduction to Mathematics (3)
 MATH 143 Trigonometry (3)
 PHYS 101 Introduction to Physics (3)
 PSY 113 General Psychology (3)
 SOC 110 Introduction to Sociology (3)

Tri-College Course Requirements (36 Credits)

Students must take the following courses from North Dakota State University using the Tri-College University program:
 ARCH 231 Architectural Drawing (3)
 ARCH 232 Design Technology (2)

ARCH 271 Architectural Design I (6)
 ARCH 272 Architectural Design II (6)
 ARCH 321 Architectural History I (3)
 ARCH 322 Architectural History II (3)
 ARCH 326 Design Theory (3)
 ENVD 101 Intro to Environmental Design (3)
 ENVD 130 Drawing for Environmental Designers (3)
 ENVD 172 Environmental Design Fundamentals (4)

Art and Design

Department of Art and Design

Roland Dille Center for the Arts 161,
 (218) 477-2151 or 477-2152

Chair: Wil Shynkaruk

Faculty: Anna Amar, Donald Clark, Zhimin Guan, Lila Hauge-Stoffel, Maryann Hosseinnia, Lana Leishman, Carl Oltvedt, Jim Park, Jennifer Roberson, Allen Sheets, Sherry Short, Chris Walla, Kelli Sinner

DEPARTMENT GOALS AND PHILOSOPHY

Most human perception is based on stereotyped conceptions of the world around us. The study of visual art breaks down those stereotypes providing a truer understanding of the physical world and its workings. This understanding then forms the basis for the effective communication of personal ideas and concepts through visual and tactile media.

The program in Art and Design teaches students the basic principles of art, instructs students in the use of materials, encourages the investigation of the creative process, and provides a framework for understanding the field of art in the historic and contemporary context. This knowledge forms the basic visual and conceptual vocabulary that is used to explore one's personal expression. The department also emphasizes the benefits of a balanced Liberal Arts education. Art majors are prepared to perform competently whether they go on to professional practice, teaching or post-graduate study.

The Department of Art and Design and its programs are accredited through the National Association of Schools of Art and Design (NASAD).

DEGREES OFFERED BY THE ART AND DESIGN DEPARTMENT

- Bachelor of Science, with a major in Art Education
- Bachelor of Arts, with a major in Art - Emphasis in Art History
- Bachelor of Arts, with a major in Art - Emphasis in one of the studio areas listed below
- Bachelor of Fine Arts - Emphasis in one of the studio areas listed below

THE DEPARTMENT OF ART AND DESIGN OFFERS THE FOLLOWING MINORS:

- Minor in Studio Art
- Minor in Art History

EMPHASIS AREAS: STUDIO ART AND ART EDUCATION

Students working toward a degree in Studio Art or Art Education may declare an emphasis in any of the following areas:

- Ceramics
- Drawing
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture

EMPHASIS AREA DESCRIPTIONS

Art History

The Bachelor of Arts degree in Art with an emphasis in Art History is offered for students whose principal interest is in museum work, teaching in higher education or other fields related to visual arts. Course requirements are designed to familiarize students with the major fields in Art History. Requirements include the Survey of Art and eight upper-level Art History courses. Additional classes in studio art, foreign languages, and a senior research project with a public presentation are required for graduation.

Ceramics

Students learn a wide range of technical skills within the area of studio ceramics. Students are acquainted with the technology of ceramic materials and firing processes while developing sound craftsmanship as a means to personal expression.

Drawing

Students enrolled in Drawing develop a personal approach selecting from a variety of drawing materials and concepts. Drawing is emphasized as an end in itself, beyond the more traditional idea that drawing is mainly a preparatory process for the development of visual ideas for other media.

Graphic Design

Traditional and computer processes are utilized for in-depth studio investigations into various conceptual and technical applications towards effective visual communication. Investigations deal with one or more of the following: symbols, typography, information design, systems, 3D, visual concepts, and multimedia. Projects may include logos, brochures, CD covers, posters, magazine layouts, packaging, annual reports, and many more issues dealing with visual

communications and society. The American Institute of Graphic Artists (AIGA) and The National Association of Schools of Art and Design (NASAD) do not recognize the Bachelor of Arts (BA) degree in art or design as adequate preparation for entry as a graphic design professional. The Bachelor of Fine Arts (BFA) is considered the professional and specialized degree program for entry into practice. At the BFA level an internship is required.

Painting

After acquiring a thorough foundation in materials and techniques, students are encouraged to develop personal approaches to form and content, style and expression. Individual and group critiques, as well as slide lectures and demonstrations, guide this process. Internships are encouraged.

Photography

The emphasis in Photography includes both traditional and contemporary approaches to Photography, encompassing 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. Internships are encouraged.

Printmaking

The student may choose one or a combination of the following printmaking media: relief printing, screenprinting and mono printing, as well as nontoxic intaglio and lithography. Internships are encouraged.

Sculpture

Students are exposed to a broad range of materials, processes, techniques, and concepts as they pertain to both traditional and non-traditional approaches to making sculpture. Topics may include, but are not limited to, wood fabrication, cold and hot steel fabrication, casting methods including bronze casting and mold making, approaches to the figure, site-specific works, self-motivated and self-guided material, technical, and content investigations incorporating unique personal imagery.

Illustration

Students who are interested in pursuing illustrative work are encouraged to do so under the specific area of emphasis that is appropriate to their interest. Faculty members support and encourage students in their pursuit of quality illustrative work.

BACHELOR OF FINE ARTS

Students must apply for acceptance into the BFA program by presenting a body of work for review by a committee of three faculty members, including the student's advisor in the area of emphasis. Students entering the BFA program must have an overall GPA of 2.75, and a GPA of 3.0 in Art and Design, with their BA requirements satisfied. The BFA Degree requires a minimum of 133 credits for graduation.

ADDITIONAL DEGREE REQUIREMENTS (BA studio emphasis, BS, and BFA)

Portfolio Reviews

Students seeking the degree in Studio Art or Art Education are required to complete two portfolio reviews; one in the spring semester of their freshman year, and the second in the fall semester of their junior year. Record of their participation in portfolio reviews is kept on file in the Department of Art and Design Office. Completion of these two reviews is required for advancement to the next level of study. Transfer students must meet with their Art and Design advisor during their initial semester in the department to discuss scheduling a review and tailoring the review process to reflect their past experiences.

Exhibition/Public Presentation

All students intending to graduate with a BA, BS, or BFA in studio art must successfully prepare a selection of works for exhibition in the Roland Dille Center for the Arts Gallery, and must take part in a group exhibition, as arranged by the Gallery Director. Application for exhibition must be made one semester prior to exhibition (March 15 for fall exhibition; October 15 for spring exhibition). A form recording the successful completion of a student's exhibition effort is forwarded to the Records Office in preparation for graduation.

Graphic Design majors seeking the BFA degree must prepare a public presentation of their BFA exhibition. The presentation must be scheduled in consultation with the Gallery Director and the Graphic Design advisor.

Internship

Students seeking the BFA emphasis in Graphic Design will complete a required internship after their senior project for which they receive credit towards graduation. Students seeking a BA/BFA in any other area of emphasis may seek an internship. Internship requests should be made to the major advisor and must be approved for credit in advance.

TRANSFER CREDIT POLICY

The student's assigned advisor can approve acceptance of transfer credits of Art courses that are not prerequisites for upper-level courses at MSUM.

Transfer students who seek approval for prior university level courses in art as prerequisite credit in an area in which they wish to continue study must have those credits approved by her/his advisor and the instructor in the area of study. Signatures from those professors involved must be included on the *Department of Art and Design Transfer Student Academic Review Form*.

Students must provide both samples of work and syllabi for courses sought as accepted prerequisite credit.

Please review this *Bulletin* for general information and guidelines on the policy for transfer credits outside the Department of Art and Design.

SCHOLARSHIPS

In addition to standard MSUM academic scholarships, the Department of Art and Design grants Freshman and Transfer Student Talent Scholarships and Upper Level Scholarships on a competitive basis. Contact the department office for further information.

STUDENT LEARNING OUTCOMES

It is the goal of the Department of Art & Design that all students graduating with a BA or BFA degree in studio art areas or a BS degree in art education be proficient in:

- Understanding the elements of art and the principles of design
- Ability to develop and successfully convey artistic concepts
- Ability to envision and develop original approaches to art-making
- Craftsmanship (skill, sensitivity, consistency of technique)
- Expressive quality (concept, style, choice of media, etc.)
- Representative skill (proportions, perspective, etc.)
- Verbal communication (professional presentation skills)
- Physical presentation (professional presentation skills)
- Overall portfolio development

UPPER LEVEL WRITING REQUIREMENT

All university students must provide evidence of competency in writing skills for graduation. In the Department of Art and Design, the upper level writing requirement is fulfilled through successful participation in, and completion of, the writing

components of The History of Art I and II (Art 233 & 234), 300- and 400- level Art History classes, Contemporary Art, Design and Theory (Art 450), and for BFA students, the BFA Seminar (Art 480). In addition, students may be required to complete writing requirements in individual studio courses.

B.A. DEGREE IN ART (64-70 Credits)**Core Requirements (12 Credits)**

The three art courses listed are required of all the emphases in the B.A. Degree in Art (Art History, Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, and Sculpture).

ART 233 History of Art I: Prehistory through the Middle Ages (4)

ART 234 History of Art II: Renaissance through Modern (4)

ART 450 Contemporary Art, Design, and Theory (4)

EMPHASIS IN ART HISTORY (70 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (6 Credits)

Students must earn six credits in Art 497. This course is titled Senior Thesis, and as a graduation requirement, students are required to present their Senior Thesis publicly.

ART 497 Topics in Art I (1-6)

Restricted Electives (36 Credits)

Students must earn twenty-eight credits in Art History courses at the 300 level or above. Students must earn eight credits in studio chosen from ART 101,

ART 102, ART 125, and ART 126.

ART 101 Basic Drawing I (4)

ART 102 Basic Drawing II (4)

ART 125 Foundation Design I (4)

ART 126 Foundation Design II (4)

ART 338 Non-Western Art (4)

ART 408 Women and Art (4)

ART 410 Ancient Art (4)

ART 411 Medieval Art (4)

ART 420 Renaissance Art (4)

ART 421 Baroque Art (4)

ART 430 Nineteenth Century Art (4)

ART 431 Twentieth Century Art (4)

ART 433 Modern Architecture (3)

ART 434 American Art (4)

Related Requirements (16 Credits)

Students must take at least one year of German language (eight credits), and at least one year of a second language (eight credits), or demonstrate equivalent competency. Ancient, medieval or modern languages may be used to fulfill the second language requirement.

Recommended (0 Credits)

Courses in history, religion, philosophy, literature, anthropology, archaeology, humanities, multicultural studies, American studies, and Women's Studies may be beneficial to students in this emphasis.

ART 320 Philosophy of the Arts (3)

ENGL 234 Mythology (3)

EMPHASIS IN CERAMICS (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (40 Credits)

Students may take ART 303A, 304A and 305A in any order. Students take 404A and 405A level studio courses for a total of eight credits.

ART 101 Basic Drawing I (4)

ART 102 Basic Drawing II (4)

ART 125 Foundation Design I (4)

ART 126 Foundation Design II (4)

ART 203A Introduction to Ceramics and Clay Processes (4)

ART 303A Intermediate Pottery/Wheel Throwing (4)

ART 304A Intermediate Handbuilding/Ceramic Sculpture (4)

ART 305A Technical Ceramics (4)

ART 404A Ceramics Studio (4)

ART 405A Ceramics Studio (4)

Restricted Electives (12 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203B-203L. At least four credits must be in a two-dimensional medium. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203E Introduction to Sculpture (4)

ART 203F Introduction to Photography (4)

ART 303E Intermediate Sculpture (4)

ART 304E Sculpture Studio (4)

ART 320 Philosophy of the Arts (3)

ART 404E Sculpture Studio (4)

ART 405E Sculpture Studio (4)

CHEM 102 Survey of Basic Principles of Chemistry (3)

GEOS 115 Physical Geology (4)

EMPHASIS IN DRAWING (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (40 Credits)

Students take a combination of two 304H and/or 305H level studio courses for a total of eight credits.

Students take a combination of two 404H and/or 405H level studio courses for a total of eight credits.

ART 101 Basic Drawing I (4)

ART 102 Basic Drawing II (4)

ART 125 Foundation Design I (4)

ART 126 Foundation Design II (4)

ART 203H Introduction to Figure Drawing (4)

ART 203K Introduction to Fiber/Textile Design (4)

ART 304H Drawing Studio (4)

ART 305H Drawing Studio (4)

ART 404H Drawing Studio (4)

ART 405H Drawing Studio (4)

Restricted Electives (12 Credits)

A minimum of eight introductory credits encompassing both two- and three-dimensional media is required. Students must choose from ART 203A-203L for these credits. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203C Introduction to Painting (4)

ART 203D Introduction to Printmaking (4)

EMPHASIS IN GRAPHIC DESIGN (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (40 Credits)

Students take 304B and 305B level studio courses for a total of eight credits. Students take 404B and 405B level studio courses for a total of eight credits.

ART 101 Basic Drawing I (4)

ART 102 Basic Drawing II (4)

ART 125 Foundation Design I (4)

ART 126 Foundation Design II (4)

ART 203B Introduction to Graphic Design (4)

ART 303B Graphic Design Studio (4)

ART 304B Graphic Design Studio (4)

ART 305B Graphic Design Studio (4)

ART 404B Graphic Design Studio, Contracted Work (4)

ART 405B Graphic Design Studio, Contracted Work (4)

Restricted Electives (12 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203L Introduction to Illustration (4)
 CMST 100 Speech Communication (3)
 GCOM 255 Beginning Computer Graphics (3)
 GCOM 266 Introduction to Multimedia (3)
 GCOM 316 Three Dimensional Animation (3)
 GCOM 355 Intermediate Computer Graphics (3)
 GCOM 366 Web Authoring with Dreamweaver (3)

EMPHASIS IN PAINTING (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (40 Credits)

Students take a combination of two 304C and/or 305C level studio courses for a total of eight credits.

Students take a combination of two 404C and/or 405C level studio courses for a total of eight credits.

ART 101 Basic Drawing I (4)
 ART 102 Basic Drawing II (4)
 ART 125 Foundation Design I (4)
 ART 126 Foundation Design II (4)
 ART 203C Introduction to Painting (4)
 ART 303C Painting Studio (4)
 ART 304C Painting Studio (4)
 ART 305C Painting Studio (4)
 ART 404C Painting Studio (4)
 ART 405C Painting Studio (4)

Restricted Electives (12 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203F Introduction to Photography (4)
 ART 203H Introduction to Figure Drawing (4)
 ART 303H Figure Drawing II (4)
 ART 320 Philosophy of the Arts (3)

EMPHASIS IN PHOTOGRAPHY (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (40 Credits)

Students take a combination of two 304F and/or 305F level studio courses for a total of eight credits.

Students take a combination of two 404F and/or 405F level studio courses for a total of eight credits.

ART 101 Basic Drawing I (4)
 ART 102 Basic Drawing II (4)
 ART 125 Foundation Design I (4)
 ART 126 Foundation Design II (4)
 ART 203F Introduction to Photography (4)
 ART 303F Photography Studio (4)
 ART 304F Photography Studio (4)
 ART 305F Photography Studio (4)
 ART 404F Photography Studio (4)
 ART 405F Photography Studio (4)

Restricted Electives (12 Credits)

Students must complete eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203B Introduction to Graphic Design (4)
 ART 203D Introduction to Printmaking (4)
 ART 303B Graphic Design Studio (4)
 ART 469 Student Internship (2-12)
 GCOM 255 Beginning Computer Graphics (3)
 MC 430 Documentary Photography (3)

EMPHASIS IN PRINTMAKING (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

Requirements (40 Credits)

Students take a combination of two 304D and/or 305D level studio courses for a total of eight credits.

Students take a combination of two 404D and/or 405D level studio courses for a total of eight credits.

ART 101 Basic Drawing I (4)
 ART 102 Basic Drawing II (4)
 ART 125 Foundation Design I (4)
 ART 126 Foundation Design II (4)
 ART 203D Introduction to Printmaking (4)
 ART 303D Printmaking Studio (4)
 ART 304D Printmaking Studio (4)
 ART 305D Printmaking Studio (4)
 ART 404D Printmaking Studio (4)
 ART 405D Printmaking Studio (4)

Restricted Electives (12 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

- ART 203C Introduction to Painting (4)
- ART 203F Introduction to Photography (4)
- ART 203H Introduction to Figure Drawing (4)
- ART 220 Papermaking (4)
- ART 303H Figure Drawing II (4)

EMPHASIS IN SCULPTURE (64 Credits)**Core Requirements (12 Credits)**

Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

Requirements (40 Credits)

Students take a combination of two 304E and/or 305E level studio courses for a total of eight credits.

Students take a combination of two 404E and/or 405E level studio courses for a total of eight credits.

- ART 101 Basic Drawing I (4)
- ART 102 Basic Drawing II (4)
- ART 125 Foundation Design I (4)
- ART 126 Foundation Design II (4)
- ART 203E Introduction to Sculpture (4)
- ART 303E Intermediate Sculpture (4)
- ART 304E Sculpture Studio (4)
- ART 305E Sculpture Studio (4)
- ART 404E Sculpture Studio (4)
- ART 405E Sculpture Studio (4)

Restricted Electives (12 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a two-dimensional medium. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

- ART 203A Introduction to Ceramics and Clay Processes (4)
- ART 203H Introduction to Figure Drawing (4)
- ART 203K Introduction to Fiber/Textile Design (4)
- ART 338 Non-Western Art (4)
- ART 410 Ancient Art (4)
- ART 420 Renaissance Art (4)
- ART 421 Baroque Art (4)
- GCOM 316 Three Dimensional Animation (3)
- TECH 230 Manufacturing Processes (3)

BFA DEGREE IN ART (88 Credits)**Core Requirements (31 Credits)**

Students may earn the B.F.A. Degree in Art in the following emphases: Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, and Sculpture. The listed courses are required of all the emphases in the B.F.A. Degree.

- ART 101 Basic Drawing I (4)
- ART 102 Basic Drawing II (4)
- ART 125 Foundation Design I (4)
- ART 126 Foundation Design II (4)
- ART 233 History of Art I: Prehistory through the Middle Ages (4)
- ART 234 History of Art II: Renaissance through Modern (4)
- ART 450 Contemporary Art, Design, and Theory (4)
- ART 480 BFA Seminar (3)

BFA EMPHASIS IN CERAMICS (88 Credits)**Core Requirements (31 Credits)**

Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students may take ART 303A, 304A, and 305A in any order. Students take a combination of two 404A or 405A level studio courses for a total of eight credits.

Students must earn a total of seventeen credits in ART 451A and ART 452A.

- ART 203A Introduction to Ceramics and Clay Processes (4)
- ART 303A Intermediate Pottery/Wheel Throwing (4)
- ART 304A Intermediate Handbuilding/Ceramic Sculpture (4)
- ART 305A Technical Ceramics (4)
- ART 404A Ceramics Studio (4)
- ART 405A Ceramics Studio (4)
- ART 451A Ceramic Studio (4-12)
- ART 452A Ceramic Studio (4-12)

Restricted Electives (16 Credits)

Students must take at least two additional introductory level courses chosen from ART 203B-203L. At least four credits must be in a two-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

- ART 203E Introduction to Sculpture (4)
- ART 203F Introduction to Photography (4)
- ART 303E Intermediate Sculpture (4)
- ART 304E Sculpture Studio (4)
- ART 320 Philosophy of the Arts (3)
- ART 404E Sculpture Studio (4)
- ART 405E Sculpture Studio (4)
- CHEM 102 Survey of Basic Principles of Chemistry (3)
- GEOS 115 Physical Geology (4)

BFA EMPHASIS IN DRAWING (88 Credits)**Core Requirements (31 Credits)**

Students must complete the courses listed under “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students take a combination of two 304H and/or 305H level studio courses for a total of eight credits. Students take a combination of two 404H and/or 405H level studio courses for a total of eight credits. Students must complete a total of seventeen credits in ART 451H and ART 452H.

ART 203H Introduction to Figure Drawing (4)
 ART 303H Figure Drawing II (4)
 ART 304H Drawing Studio (4)
 ART 305H Drawing Studio (4)
 ART 404H Drawing Studio (4)
 ART 405H Drawing Studio (4)
 ART 451H Drawing Studio (4-12)
 ART 452H Drawing Studio (4-12)

Restricted Electives (16 Credits)

A minimum of eight introductory credits encompassing both two- and three-dimensional media is required. Students must choose from ART 203A-203L for these credits. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203C Introduction to Painting (4)
 ART 203D Introduction to Printmaking (4)

BFA EMPHASIS IN GRAPHIC DESIGN (88 Credits)**Core Requirements (31 Credits)**

Students must complete the courses listed under the "Core Requirements" for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students take 304B and 305B level studio courses for a total of eight credits. Students take 404B and 405B level studio courses for a total of eight credits. Students must take a total of seventeen credits in ART 451B, 452B, and 469. Students should consult with their faculty advisor to make specific arrangements for fulfillment of these required credits.

ART 203B Introduction to Graphic Design (4)
 ART 303B Graphic Design Studio (4)
 ART 304B Graphic Design Studio (4)
 ART 305B Graphic Design Studio (4)
 ART 404B Graphic Design Studio, Contracted Work (4)
 ART 405B Graphic Design Studio, Contracted Work (4)
 ART 451B Graphic Design Studio (4-12)
 ART 452B Graphic Design Studio (4-12)
 ART 469 Student Internship (2-12)

Restricted Electives (16 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203L Introduction to Illustration (4)
 CMST 100 Speech Communication (3)
 GCOM 255 Beginning Computer Graphics (3)
 GCOM 266 Introduction to Multimedia (3)
 GCOM 316 Three Dimensional Animation (3)
 GCOM 355 Intermediate Computer Graphics (3)
 GCOM 366 Web Authoring with Dreamweaver (3)

BFA EMPHASIS IN PAINTING (88 Credits)**Core Requirements (31 Credits)**

Students must complete the courses listed under the "Core Requirements" for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students take a combination of two 304C and/or 305C level studio courses for a total of eight credits. Students take a combination of two 404C and/or 405C level studio courses for a total of eight credits. Students must earn a total of seventeen credits in ART 451C and 452C.

ART 203C Introduction to Painting (4)
 ART 303C Painting Studio (4)
 ART 304C Painting Studio (4)
 ART 305C Painting Studio (4)
 ART 404C Painting Studio (4)
 ART 405C Painting Studio (4)
 ART 451C Painting Studio (4-12)
 ART 452C Painting Studio (4-12)

Restricted Electives (16 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203F Introduction to Photography (4)
 ART 203H Introduction to Figure Drawing (4)
 ART 303H Figure Drawing II (4)
 ART 320 Philosophy of the Arts (3)

BFA EMPHASIS IN PHOTOGRAPHY (88 Credits)**Core Requirements (31 Credits)**

Students must complete the courses listed under the "Core Requirements" for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students take a combination of two 304F and/or 305F level studio courses for a total of eight credits. Students take a combination of two 404F and/or 405F level studio courses for a total of eight credits.

Students must complete a total of seventeen credits of ART 451F and 452F.

ART 203F Introduction to Photography (4)
 ART 303F Photography Studio (4)
 ART 304F Photography Studio (4)
 ART 305F Photography Studio (4)
 ART 404F Photography Studio (4)
 ART 405F Photography Studio (4)
 ART 451F Photography Studio (4-12)
 ART 452F Photography Studio (4-12)

Restricted Electives (16 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203B Introduction to Graphic Design (4)
 ART 203D Introduction to Printmaking (4)
 ART 220 Papermaking (4)
 ART 303B Graphic Design Studio (4)
 ART 469 Student Internship (2-12)
 GCOM 255 Beginning Computer Graphics (3)
 MC 430 Documentary Photography (3)

BFA EMPHASIS IN PRINTMAKING (88 Credits)

Core Requirements (31 Credits)

Students must complete the courses listed under the "Core Requirements" for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students take a combination of two 304D and/or 305D level studio courses for a total of eight credits. Students take a combination of two 404D and/or 405D level studio courses for a total of eight credits. Additionally, students must earn a total of seventeen credits in ART 451D and 452D.
 ART 203D Introduction to Printmaking (4)
 ART 303D Printmaking Studio (4)
 ART 304D Printmaking Studio (4)
 ART 305D Printmaking Studio (4)
 ART 404D Printmaking Studio (4)
 ART 405D Printmaking Studio (4)
 ART 451D Printmaking Studio (4-12)
 ART 452D Printmaking Studio (4-12)

Restricted Electives (16 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203C Introduction to Painting (4)
 ART 203F Introduction to Photography (4)
 ART 203H Introduction to Figure Drawing (4)
 ART 303H Figure Drawing II (4)

BFA EMPHASIS IN SCULPTURE (88 Credits)

Core Requirements (31 Credits)

Students must complete the courses listed under the "Core Requirements" for the B.F.A. Degree in Art.

Requirements (41 Credits)

Students take a combination of two 304E and/or 305E level studio courses for a total of eight credits. Students take a combination of two 404E and/or 405E level studio courses for a total of eight credits. Additionally, students must earn a total of seventeen credits in ART 451E and 452E.
 ART 203E Introduction to Sculpture (4)
 ART 303E Intermediate Sculpture (4)
 ART 304E Sculpture Studio (4)
 ART 305E Sculpture Studio (4)
 ART 404E Sculpture Studio (4)
 ART 405E Sculpture Studio (4)
 ART 451E Sculpture Studio (4-12)
 ART 452E Sculpture Studio (4-12)

Restricted Electives (16 Credits)

Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a two-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

ART 203A Introduction to Ceramics and Clay Processes (4)
 ART 203H Introduction to Figure Drawing (4)
 ART 203K Introduction to Fiber/Textile Design (4)
 ART 338 Non-Western Art (4)
 ART 410 Ancient Art (4)
 ART 420 Renaissance Art (4)
 ART 421 Baroque Art (4)
 GCOM 316 Three Dimensional Animation (3)
 TECH 216 3D Modeling (3)
 TECH 230 Manufacturing Processes (3)

**B.S. DEGREE IN ART EDUCATION (93 Credits)
Requirements (33 Credits)**

Students may earn the B.S. Degree in Art in the following emphases: Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, or Sculpture. Students should consult closely with their academic advisors as they select courses from the "Restricted Electives" section of the major. Additionally, students must fulfill all teacher licensure requirements, which will add thirty-six credits to the major. Consult the *Secondary and Kindergarten-Grade 12 Education* section of this Bulletin.

- ART 101 Basic Drawing I (4)
- ART 102 Basic Drawing II (4)
- ART 125 Foundation Design I (4)
- ART 126 Foundation Design II (4)
- ART 233 History of Art I: Prehistory through the Middle Ages (4)
- ART 234 History of Art II: Renaissance through Modern (4)
- ART 350 Methods and Materials: Art for the Elementary Classroom (3)
- ART 375 Art Methods 7-12 (3)
- ART 402 Advanced Methods: Art Education (3)

Restricted Electives (24 Credits)

Students must complete a minimum of twelve 203 level credits encompassing both two and three dimensional media. Students must also complete at least eight credits in studio art at the 303 level and at least four credits at the 304/305 level.

MINOR IN ART (32 Credits)

Requirements (24 Credits)

- ART 101 Basic Drawing I (4)
- ART 102 Basic Drawing II (4)
- ART 125 Foundation Design I (4)
- ART 126 Foundation Design II (4)
- ART 233 History of Art I: Prehistory through the Middle Ages (4)
- ART 234 History of Art II: Renaissance through Modern (4)

Restricted Electives (8 Credits)

Students must take two courses from the following list, at least one of which must be a three-dimensional introductory course (ART 203A or ART 203E).

- ART 203A Introduction to Ceramics and Clay Processes (4)
- ART 203B Introduction to Graphic Design (4)
- ART 203C Introduction to Painting (4)
- ART 203D Introduction to Printmaking (4)
- ART 203E Introduction to Sculpture (4)
- ART 203F Introduction to Photography (4)
- ART 203H Introduction to Figure Drawing (4)
- ART 203K Introduction to Fiber/Textile Design (4)
- ART 203L Introduction to Illustration (4)

**MINOR IN ART HISTORY (28 Credits)
Requirements (8 Credits)**

- ART 233 History of Art I: Prehistory through the Middle Ages (4)
- ART 234 History of Art II: Renaissance through Modern (4)

Restricted Electives (4 Credits)

Students must earn four credits from the following list of courses:

- ART 101 Basic Drawing I (4)
- ART 125 Foundation Design I (4)

Electives (16 Credits)

Students must earn sixteen credits in Art History courses at the 300 level or above.

Astronomy

See Physics and Astronomy

Athletics

Athletics Department

Nemzek 134, (218) 477-2622

Director of Athletics: Alfonso Scandrett

Chair: Tammy Blake-Kath

Faculty: Keith Barnier, Jason Beschta, Rollie Bulock, Rhonda Denbow, Stu Engen, Chad Martin, Karla Nelson, Todd Peters, Keenan Spiess, Damon Tomeo

The MSUM Athletics Program is a charter member of the Northern Sun Intercollegiate Conference and is nationally affiliated with the NCAA as a Division II member. MSUM currently offers six men's teams and ten women's teams. Men's sports include basketball, cross-country, football, track (indoor/outdoor) and wrestling. Women's sports include basketball, cross-country, golf, soccer, softball, swimming, tennis, track (indoor and outdoor) and volleyball. Although many MSUM athletes are recruited, each program continues to encourage walk-on opportunities.

Athletic Training

Health and Physical Education Department

Nemzek Hall 106D, (218) 477-2318

Chair: Wendy Frappier

Program Coordinator: Dawn Hammerschmidt

Faculty: Chris Huot, Ronda Peterson, Andrea Scott, Keith Wiedrich

The Athletic Training Education Program at MSUM is a nationally accredited program through the Commission on Accreditation of Athletic Training

Education (CAATE). The Athletic Training Education Program provides students with an in-depth study of Athletic Training including prevention, care, evaluation, treatment, and rehabilitation of musculoskeletal injuries. Athletic Training students also learn about health care administration and professional development pertaining to athletic training. The Athletic Training Education Program prepares students to become eligible for the Board of Certification examination, which is the entry-level credential needed to practice Athletic Training. Some states also require Athletic Trainers to be registered or licensed. Certified Athletic Trainers have employment opportunities at the secondary level, college/university level, sports medicine clinics, physician's offices, industrial and corporate settings, and with professional athletic teams. In addition, this program provides preparation for other allied health professions and graduate studies.

Athletic Training Education Program Admission Requirements

Athletic Training coursework and clinical education experiences are sequential. The sequencing of coursework and clinical education provides the Athletic Training student the opportunity to gain knowledge and master skills over time. The first year is observational; the student completes the required coursework and observational hours. During the second semester of the observational year the student applies to the Athletic Training Education Program.

A limited number of applicants will be admitted to the Athletic Training Education Program. The number of students admitted into the Athletic Training Education Program will be dependent upon the number of clinical experience sites available for that given year. Application to the Athletic Training Education Program will take place during spring semester. The policy for transfer students will include a careful evaluation of the students' clinical experiences and educational competencies, and their compatibility with MSUM's Athletic Training Education Program. Transfer students should contact the Program Coordinator regarding requirements. Only admitted students will proceed in the curriculum. Interested students must meet with the Program Coordinator before declaring Athletic Training as a major.

Competitive admittance is dependent upon successful completion of the following:

1. Admission to Minnesota State University Moorhead.
2. Submission of an official transcript.

3. Academic Achievement:
 - a grade of C- or better in BIOL 104 Human Biology or BIOL 111 Cell Biology;
 - a grade of C- or better in CHEM 110 Fundamentals of Chemistry or CHEM 200 General Chemistry I;
 - a grade of B or better in AT 120 Introduction to Athletic Training;
 - a grade of B or better in AT 220 Care & Prevention of Athletic Injuries;
 - a grade of B or better in AT 220L Care & Prevention of Athletic Injuries Lab.
4. Completion of 55 hours of documented Athletic Training room observation (30 Fall semester, 25 Spring semester).
5. Submission of three letters of recommendation.
6. Submission of application form.
7. Submission of a formal letter of application (essay).
8. Completion of an on-campus interview with a committee of Certified Athletic Trainers.
9. Completion of immunizations as required by MSUM including Hepatitis B, TB (yearly), and MMR vaccinations.
10. Completion of a physical examination and medical history questionnaire.
11. Completion of Technical Standards.
12. Completion of a criminal background check, compliance/consent form, and HIPAA training (prior to clinical experience at affiliated sites).
13. Membership in national, district, and state athletic training organizations.

Retention Requirements in Athletic Training Education Program

Once accepted into the Athletic Training Education Program, the student will continue to meet the academic and clinical requirements of the program. If a student fails to meet the retention requirements of the program, the student will not be allowed to progress through the program until retention requirements are met and dependent upon clinical experience availability.

Sophomore Year:

- minimum 2.5 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- obtain memberships to the National Athletic Trainers' Association (NATA), Great Lakes Athletic Trainers' Association (GLATA), and the Minnesota Athletic Trainers' Association (MATA);
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA's Code of Ethics and Constitution;

- compliance with all established policies defined in the Athletic Training Student Handbook;
- compliance with clinical assignments and directions given by the athletic training staff;
- complete proper paperwork for practicum courses within the first week of school.

Junior Year:

- minimum 2.75 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- maintain professional student memberships to NATA, GLATA, and MATA;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA's Code of Ethics and Constitution;
- compliance with all established policies defined in the Athletic Training Student Handbook;
- compliance with clinical assignments and directions given by the athletic training staff;
- repeated TB immunization.

Senior Year:

- minimum 2.75 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- maintain professional student memberships to NATA, GLATA, and MATA;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA's Code of Ethics and Constitution;
- compliance with all established policies defined in the Athletic Training Student Handbook;
- compliance with clinical assignments and directions given by the athletic training staff;
- repeated TB immunization.

The National Athletic Trainers' Association has outlined areas of expertise and specific domains and competencies within each of the following twelve areas. This educational framework serves as the foundation needed to sit for the Board of Certification examination which is a necessary credential to work as an Athletic Trainer. Upon completion of the course of study required for Athletic Training, the student should have a collection of knowledge, skills, and values regarding the following areas:

- risk management and injury prevention
- pathology of injuries and illnesses
- assessment and evaluation
- acute care of injury and illness
- pharmacology
- therapeutic modalities
- therapeutic exercise
- general medical conditions and disabilities

- nutritional aspects of injury and illness
- psychosocial intervention and referral
- health care administration
- professional development and responsibilities

STUDENT LEARNING OUTCOMES

Students who successfully complete the athletic training education program will:

- Demonstrate knowledge consistent with the entry-level education as defined by the National Athletic Trainers' Association Educational Competencies.
- Employ critical thinking and clinical decision-making skills while providing athletic training services.
- Be able to communicate effectively, through written and verbal means, with the general public and other medical and health professionals.
- Provide athletic training services within the ethical, professional, clinical, and legal parameters of Board of Certification's® Standards of Professional Practice and/or state practice act.
- Demonstrate an appreciation of the need for community involvement and citizenship as an allied health professional.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN ATHLETIC TRAINING

(77-78 Credits)

Requirements (57 Credits)

- AT 120 Introduction to Athletic Training (1)
- AT 220 Care and Prevention of Athletic Injuries (2)
- AT 220L Care and Prevention of Athletic Injuries Lab (1)
- AT 320 Athletic Training Techniques (3)
- AT 321 Athletic Injury Assessment: Upper Extremity (3)
- AT 321L Athletic Injury Assessment: Upper Extremity Lab (1)
- AT 322 Athletic Injury Assessment: Lower Extremity (3)
- AT 322L Athletic Injury Assessment: Lower Extremity Lab (1)
- AT 323 Athletic Training Modalities (3)
- AT 323L Athletic Training Modalities Lab (1)
- AT 324 Athletic Injury Rehabilitation (3)
- AT 324L Athletic Injury Rehabilitation Lab (1)
- AT 361 Athletic Training Practicum I (1)
- AT 362 Athletic Training Practicum II (1)
- AT 363 Athletic Training Practicum III (1)
- AT 364 Athletic Training Practicum IV (1)
- AT 420 Athletic Training Senior Seminar (2)
- AT 440 Pharmacology and Medical Issues (3)

AT 460 Organization and Administration of Athletic Training (3)
 AT 465 Athletic Training Practicum V (1)
 AT 466 Athletic Training Practicum VI (1)
 HLTH 125 First Aid and CPR (2)
 HLTH 305 Introduction to Nutrition (3)
 PE 320 Anatomical Kinesiology (3)
 PE 321 Human Physiology (3)
 PE 420 Biomechanics (3)
 PE 421 Physiology of Exercise (3)
 PE 473 Exercise Testing and Interpretation (3)

Related Requirements (14-15 Credits)

BIOL 104 Human Biology (3)
OR BIOL 111 Cell Biology (4)
 CHEM 110 Fundamentals of Chemistry (4)
OR CHEM 200 General Chemistry I (4)
 MATH 236 Applied Statistics (4)
 PSY 113 General Psychology (3)

Electives (6 Credits)

Students must choose six elective credits from the following list of courses:
 BIOL 236 Introduction to Microbiology (3)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 CSIS 103 Computer Concepts and Applications (3)
 ENGL 387 Technical Report Writing (4)
 HLTH 110 Personal Health and Wellness (3)
 PE 311 Motor Learning (2)

Biology

See *Biosciences*

Biosciences

Biosciences Department

Hagen Hall 407, (218) 477-2572

Chair: Donna Bruns Stockrahm

Faculty: Ellen Brisch, Chris Chastain, George Davis, Linda Fuselier, Michelle Malott, Richard Pemble, Joseph Provost, David Rodenbaugh, Alison Wallace, Mark Wallert, Kathryn Wise, Brian Wisenden

The department offers a Bachelor of Arts degree in Biology and Bachelor of Science degrees in Life Science (Teaching) and Medical Technology. In addition to the B.A. in Biology, three emphases are available for students majoring in Biology: a Biochemistry and Biotechnology Emphasis that leads to a Bachelors degree in Biology and Chemistry, a Health and Medical Sciences Emphasis

that may be appropriate for prospective health professionals in a variety of fields, and an Ecology and Evolutionary Biology Emphasis that may be appropriate for students interested in natural resources, ecology, and evolution. Biosciences faculty advise students in a number of pre-professional areas such as pre-medicine, pre-optometry, pre-veterinary medicine, pre-physical and occupational therapy, pre-physician's assistant, pre-wildlife management, pre-chiropractic, pre-mortuary science, pre-respiratory care and pre-forestry. Minors in Biology, Botany, Health and Medical Sciences, and Zoology are designed to support other fields of study such as art, psychology, education, chemistry and certain business majors. Teaching licensure is available in Life Sciences (grades 9-12). This licensure meets the requirements for licensure in Science (grades 5-8). The sequential nature of the biology curriculum and the necessity to coordinate certain biology courses with courses required in other disciplines makes it important that students considering any of the majors in the Biosciences Department consult a member of the Biosciences faculty early in their college career.

Transfer students wishing to complete any Biology major must complete at least 6 credits selected from approved 300-400 level courses in the Biosciences Department at Minnesota State University Moorhead regardless of the number of transfer credits accepted toward the major. For the B.S. in Medical Technology, completion of a criminal background check is necessary before taking credits in BIOL 460.

STUDENT LEARNING OUTCOMES

Students will:

- understand the basic principles of the biological sciences;
- demonstrate competency in basic laboratory and field skills;
- demonstrate the computer skills required for their biology classes;
- conduct searches of the scientific literature;
- communicate effectively on scientific topics;
- conduct scientific investigations;
- participate in professional activities.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN BIOLOGY (58-66 Credits)**Requirements (24 Credits)**

- BIOL 111 Cell Biology (4)
- BIOL 115 Organismal Biology (4)
- BIOL 341 Genetics (4)
- BIOL 345 Principles of Ecology (4)
- BIOL 348 Evolutionary Biology (3)
- BIOL 350 Microbiology (4)
- BIOL 484 Biology Seminar (1)

Restricted Electives (12-16 Credits)

Students must take one course from the Physiology area (BIOL 347, 349, or 360); one course from the Zoology area (BIOL 321, 322, 372, 402, or 455); one course from the Cellular and Molecular area (BIOL 365, 385, 385L, 430, or 438); and one course from the Botany area (BIOL 305, 325, or 326). Students who desire to enroll in BIOL 385L must also enroll in BIOL 385.

- BIOL 305 General Botany (4)
- BIOL 321 Invertebrate Zoology (3)
- BIOL 322 Vertebrate Zoology (3)
- BIOL 325 Plant Taxonomy (3)
- BIOL 326 Field Botany (3)
- BIOL 347 Plant Physiology (3)
- BIOL 349 Human Physiology (4)
- BIOL 360 Cell and Vertebrate Systems Physiology (4)
- BIOL 365 Developmental Biology (4)
- BIOL 372 Aquatic Biology (4)
- BIOL 385 Molecular Biology (3)
- BIOL 385L Molecular Biology 385 Lab (1)
- BIOL 402 Principles of Animal Behavior (3)
- BIOL 430 Immunobiology (4)
- BIOL 438 Medical Microbiology (4)
- BIOL 455 Wildlife Ecology (3)

Related Requirements (22-26 Credits)

In addition to the listed courses, students must complete at least six credits in mathematics at the level of MATH 127 or above.

- CHEM 200 General Chemistry I (4)
- CHEM 210 General Chemistry II (4)
- PHYS 160 College Physics I (4)
 - AND PHYS 161 College Physics II (4)
- OR PHYS 200 General Physics I (4)
 - AND PHYS 201 General Physics II (4)

EMPHASIS IN BIOCHEMISTRY AND BIOTECHNOLOGY (81-84 Credits)**Requirements (58 Credits)**

- BIOL 111 Cell Biology (4)
- BIOL 115 Organismal Biology (4)
- BIOL 341 Genetics (4)
- BIOL 350 Microbiology (4)
- BIOL 385 Molecular Biology (3)

- BIOL 385L Molecular Biology 385 Lab (1)
- CHEM 200 General Chemistry I (4)
- CHEM 210 General Chemistry II (4)
- CHEM 350 Survey of Organic Chemistry: Part I (3)
- CHEM 355 Organic Chemistry Laboratory I (1)
- CHEM 360 Survey of Organic Chemistry: Part II (3)
- CHEM 365 Organic Chemistry Laboratory II (1)
- CHEM 380 Analytical Chemistry I (4)
- CHEM 400 Biochemistry I (3)
- CHEM 405 Biochemistry Laboratory I (1)
- CHEM 410 Biochemistry II (3)
- CHEM 415 Biochemistry Laboratory II (1)
- BIOL 475 Biotechniques I (5)
 - OR CHEM 475 Biotechniques I (5)
- BIOL 476 Biotechniques II (5)
 - OR CHEM 476 Biotechniques II (5)

Restricted Electives (7-8 Credits)

Students must select one course from the Physiology area (BIOL 347 or 360) and one course from the Cellular and Molecular area (BIOL 365 or 430).

- BIOL 347 Plant Physiology (3)
- BIOL 360 Cell and Vertebrate Systems Physiology (4)
- BIOL 365 Developmental Biology (4)
- BIOL 430 Immunobiology (4)

Related Requirements (16-18 Credits)

- Students must choose a Physics sequence (PHYS 160, 161 or PHYS 200, 201) and a Mathematics sequence (MATH 234, 261 or MATH 261,262).
- PHYS 160 College Physics I (4)
 - AND PHYS 161 College Physics II (4)
- OR PHYS 200 General Chemistry I (5)
 - AND PHYS 201 General Chemistry II (5)
 - AND MATH 234 Introduction to Probability and Statistics (4)
 - AND MATH 261 Calculus I (4)
- OR MATH 261 Calculus I (4)
 - AND MATH 262 Calculus II (4)

EMPHASIS IN ECOLOGY AND EVOLUTIONARY BIOLOGY (66-73 Credits)**Core Requirements (27-28 Credits)**

- Students may take BIOL 385L when they take BIOL 385.
- BIOL 111 Cell Biology (4)
- BIOL 115 Organismal Biology (4)
- BIOL 341 Genetics (4)
- BIOL 345 Principles of Ecology (4)
- BIOL 348 Evolutionary Biology (3)
- BIOL 385 Molecular Biology (3)
- BIOL 385L Molecular Biology 385 Lab (1)
- BIOL 472 Field Biology Research Techniques (4)
- BIOL 484 Biology Seminar (1)

Restricted Electives (12-15 Credits)

Students must take one course from the Biodiversity area (BIOL 305, 321, 322, 325, or 350); one course from the Physiology area (BIOL 347 or 360); and two courses from the Ecology area (BIOL 326, 372, 402, or 455).

BIOL 305 General Botany (4)
 BIOL 321 Invertebrate Zoology (3)
 BIOL 322 Vertebrate Zoology (3)
 BIOL 325 Plant Taxonomy (3)
 BIOL 326 Field Botany (3)
 BIOL 347 Plant Physiology (3)
 BIOL 350 Microbiology (4)
 BIOL 360 Cell and Vertebrate Systems Physiology (4)
 BIOL 372 Aquatic Biology (4)
 BIOL 402 Principles of Animal Behavior (3)
 BIOL 455 Wildlife Ecology (3)

Related Requirements (27-30 Credits)

In addition to the listed courses, students must take one additional math course at the level of MATH 127 or above.

CHEM 200 General Chemistry I (4)
 CHEM 210 General Chemistry II (4)
 ENGL 387 Technical Report Writing (4)
 MATH 234 Introduction to Probability and Statistics (4)
 OR MATH 236 Applied Statistics (4)
 PHYS 160 College Physics I (4)
 AND PHYS 161 College Physics II (4)
 OR PHYS 200 General Physics I (4)
 AND PHYS 201 General Physics II (4)

Recommended (0 Credits)

The following courses are not required, but are recommended.

BIOL 365 Developmental Biology (4)
 BIOL 390 Topics: Biology (1-4)
 BIOL 470 Undergraduate Laboratory Teaching (1)
 BIOL 497 Undergraduate Research in Biology (1-3)
 CHEM 350 Survey of Organic Chemistry: Part I (3)
 CHEM 355 Organic Chemistry Laboratory I (1)
 CHEM 360 Survey of Organic Chemistry: Part II (3)
 CHEM 365 Organic Chemistry Laboratory II (1)
 CSIS 104 Spreadsheet and Database Applications (3)
 GEOS 405 Geographic Information Systems (3)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)

EMPHASIS IN HEALTH AND MEDICAL SCIENCES (68-74 Credits)**Requirements (25 Credits)**

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 323 Human Anatomy (4)
 BIOL 341 Genetics (4)

BIOL 349 Human Physiology (4)
 BIOL 350 Microbiology (4)
 BIOL 484 Biology Seminar (1)

Restricted Electives (3-4 Credits)

Students must take one course, of at least three credits, from those listed below. BIOL 385L may be taken with BIOL 385.

BIOL 365 Developmental Biology (4)
 BIOL 385 Molecular Biology (3)
 BIOL 385L Molecular Biology 385 Lab (1)
 BIOL 430 Immunobiology (4)
 BIOL 438 Medical Microbiology (4)

Related Requirements (22-27 Credits)

With the permission of their faculty advisor, students may substitute CHEM 180 and 185L for CHEM 210. Students must complete at least six credits in mathematics at the level of MATH 127 or higher.
 CHEM 200 General Chemistry I (4)

AND CHEM 210 General Chemistry II (4)
 OR CHEM 200 General Chemistry I (4)
 AND CHEM 180 Introduction to Organic and Biochemistry (4)
 AND CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 PHYS 160 College Physics I (4)
 AND PHYS 161 College Physics II (4)
 OR PHYS 200 General Physics I (4)
 AND PHYS 201 General Physics II (4)

Electives (18 Credits)

Students must earn a minimum of eighteen credits from biology courses approved for majors and/or the following list of electives. Course selection should be made in consultation with a faculty advisor and will vary with the student's pre-professional interest.
 BIOL 300 Biology of Women (3)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 CHEM 350 Survey of Organic Chemistry: Part I (3)
 CHEM 355 Organic Chemistry Laboratory I (1)
 CHEM 360 Survey of Organic Chemistry: Part II (3)
 CHEM 365 Organic Chemistry Laboratory II (1)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CHEM 410 Biochemistry II (3)
 CHEM 415 Biochemistry Laboratory II (1)
 CMST 210 Introduction to Communication Theory (3)
 CMST 308 Leadership and Group Communication (3)
 CSIS 103 Computer Concepts and Applications (3)
 CSIS 104 Spreadsheet and Database Applications (3)
 ENGL 387 Technical Report Writing (4)

HLTH 301 Health Aspects of Aging (3)
 HLTH 305 Introduction to Nutrition (3)
 HLTH 315 Health Agencies and Services (3)
 HLTH 326 Epidemiology (3)
 HLTH 330 Disease Prevention (2)
 HLTH 414 Health Services Planning and Evaluation (3)
 HLTH 416 Health Services Management (3)
 HLTH 418 Medical and Health Care Law (3)
 HLTH 419 Financial Management of Health Care Organizations (3)
 MATH 234 Introduction to Probability and Statistics (4)
 MATH 236 Applied Statistics (4)
 MGMT 360 Principles of Management (3)
 NURS 350 Applied Pathophysiology (4)
 PE 320 Anatomical Kinesiology (3)
 PE 420 Biomechanics (3)
 PHIL 311 Morals and Medicine (3)
 PSY 220 Social Behavior (3)
 PSY 202 Developmental Psychology (3)
 PSY 265 Health Psychology (3)
 PSY 310 Psychology of Women (3)
 PSY 317 Alcoholism and Drug Abuse (3)
 PSY 320 Social Psychology (3)
 PSY 345 Physiological Psychology (3)
 PSY 402 Child/Adolescent Psychology (3)
 PSY 403 Adulthood and Aging (3)
 PSY 463 Abnormal Psychology (3)
 SOC 308 Social Gerontology (3)
 SOC 375 Sociology of Health and Medicine (3)
 SPAN 130 Spanish for Healthcare Professionals I (2)
 SW 411 Chemical Dependency (3)

B.S. DEGREE IN LIFE SCIENCE-TEACHING (104-112 Credits)

Requirements (27 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major total. Completion of this degree meets the requirements for licensure in Science (grades 5-8) and Life Science (grades 9-12).

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 341 Genetics (4)
 BIOL 345 Principles of Ecology (4)
 BIOL 348 Evolutionary Biology (3)
 BIOL 350 Microbiology (4)
 BIOL 440 Middle School/Secondary Science Teaching Methods (3)
 BIOL 484 Biology Seminar (1)

Restricted Electives (12-16 Credits)

Students must take one course from the Physiology area (BIOL 347, 349, or 360); one course from the Zoology area (BIOL 321, 322, 372, 402, or 455); one course from the Cellular and Molecular area (BIOL 365,

385, 385L, 430, or 438); and one course from the Botany area (BIOL 305, 325, or 326). Students who desire to enroll in BIOL 385L must also enroll in BIOL 385.
 BIOL 305 General Botany (4)
 BIOL 321 Invertebrate Zoology (3)
 BIOL 322 Vertebrate Zoology (3)
 BIOL 325 Plant Taxonomy (3)
 BIOL 326 Field Botany (3)
 BIOL 347 Plant Physiology (3)
 BIOL 349 Human Physiology (4)
 BIOL 360 Cell and Vertebrate Systems Physiology (4)
 BIOL 365 Developmental Biology (4)
 BIOL 372 Aquatic Biology (4)
 BIOL 385 Molecular Biology (3)
 BIOL 385L Molecular Biology 385 Lab (1)
 BIOL 402 Principles of Animal Behavior (3)
 BIOL 430 Immunobiology (4)
 BIOL 438 Medical Microbiology (4)
 BIOL 455 Wildlife Ecology (3)

Related Requirements (32-36 Credits)

In addition to the courses listed below, students must complete six credits in mathematics at the MATH 127 level or above.

CHEM 200 General Chemistry I (4)
 CHEM 210 General Chemistry II (4)
 GEOS 115 Physical Geology (4)
 GEOS 116 Historical Geology (3)
 GEOS 360 Planetary Science (3)
 PHYS 160 College Physics I (4)
 AND PHYS 161 College Physics II (4)
 OR PHYS 200 General Physics I (4)
 AND PHYS 201 General Physics II (4)

B.S. DEGREE IN MEDICAL TECHNOLOGY (87-88 Credits)

Requirements (64 Credits)

Biology 460 may be taken for 12 credits and must be repeated to a total of 36 credits to be completed in one year at an affiliated hospital.

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 341 Genetics (4)
 BIOL 349 Human Physiology (4)
 BIOL 350 Microbiology (4)
 BIOL 430 Immunobiology (4)
 BIOL 438 Medical Microbiology (4)
 BIOL 460 Medical Technology Clinical Education (8-12)

Related Requirements (23-24 Credits)

In addition to the Chemistry courses listed below, students must earn at least three credits at the level of MATH 127 or above.

CHEM 200 General Chemistry I (4)
 CHEM 210 General Chemistry II (4)
 CHEM 350 Survey of Organic Chemistry: Part I (3)
 CHEM 355 Organic Chemistry Laboratory I (1)
 CHEM 360 Survey of Organic Chemistry: Part II (3)
 CHEM 365 Organic Chemistry Laboratory II (1)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)

Recommended (0 Credits)

Students who desire to enroll in BIOL 385L must also enroll in BIOL 385.

BIOL 323 Human Anatomy (4)
 BIOL 365 Developmental Biology (4)
 BIOL 385 Molecular Biology (3)
 BIOL 385L Molecular Biology 385 Lab (1)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 410 Biochemistry II (3)
 CHEM 415 Biochemistry Laboratory II (1)
 CSIS 104 Spreadsheet and Database Applications (3)
 MATH 234 Introduction to Probability and Statistics (4)
 MATH 236 Applied Statistics (4)
 MGMT 360 Principles of Management (3)
 PHYS 160 College Physics I (4)

MINOR IN BIOLOGY (21 Credits)

Requirements (12 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 305 General Botany (4)

Electives (9 Credits)

Students must earn nine credits in approved Biology electives.

MINOR IN BOTANY (20 Credits)

Requirements (8 Credits)

BIOL 111 Cell Biology (4)
 BIOL 305 General Botany (4)

Electives (12 Credits)

Students must earn twelve credits in approved electives in Biology and Botany.

MINOR IN HEALTH AND MEDICAL SCIENCES (19-20 Credits)

Requirements (16 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 323 Human Anatomy (4)
 BIOL 349 Human Physiology (4)

Restricted Electives (3-4 Credits)

BIOL 236 Introduction to Microbiology (3) **OR**
 BIOL 350 Microbiology (4)
 BIOL 341 Genetics (4)
 BIOL 365 Developmental Biology (4)

MINOR IN ZOOLOGY (20 Credits)

Requirements (8 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)

Electives (12 Credits)

Students must earn twelve credits of approved electives in Biology and Zoology courses.

Business

School of Business

Center for Business 207A, (218) 477-4646

Co-Chairs: Lee Dexter and James Swenson

Faculty: M. Wayne Alexander, Mary Bader, Sheri Erickson, Peter Geib, Ashish Gupta, James Hansen, Rajiv Kalra, Jerome Kuperman, Vinod Lall, Ruth Lumb, Thomas Pearce, Cynthia Phillips, Olgun Sahin, George Sanderson, Marlane Sanderson, Joann Segovia, Leonard Sliwoski, Sunantha Teyarachakul, William Violet, Marsha Weber, Hurrem Yilmaz

Areas of Study

MSUM's business curriculum is designed to meet guidelines established by AACSB for accredited business programs. Majors in Accounting, Business Administration, Finance, International Business, Management and Marketing are offered. Related requirements are in business ethics, economics, information systems, mathematics, psychology or sociology and communications. MSUM offers a four-year graduation guarantee to its business majors.

SCHOOL OF BUSINESS ADMISSION POLICY

MSUM students pursuing any School of Business major must be admitted to the School of Business before they may enroll in any upper-level School of Business courses except Accounting 304, Accounting 315, Finance 340, Management 360, and Marketing 310. Enrollment in any of these five classes requires completion of at least 44 semester credits and course prerequisites.

Admission to the School of Business

Admission to the School of Business enables students to register for other upper-level School of Business courses and to pursue any School of Business major.

- Admission requires a **student-initiated application** and approval by the School of Business. The application must provide evidence of:
 - an overall GPA of at least 2.25 (includes all MSUM courses and courses accepted in transfer);
 - completion of, or current enrollment in, the 60th semester credit;

- completion of, or current enrollment in, the following MSUM courses or equivalent courses.
Accounting 230 & 231 Computer Science 104
Economics 202 & 204 English 101 & 102
Mathematics 229 & 234
Psychology 113 or Sociology 110
Communication Studies 100

When admission is granted based on current enrollment in any of these courses, and the student drops or fails the course, admission to the School of Business and pre-registration for upper-level business courses will be revoked

- Application to the School of Business requires that the student sign the School of Business Statement of Ethical Student Conduct.
- Students who had officially declared a School of Business major and were taking MSUM classes prior to Fall 2001 need not apply; they will be considered admitted. However, an admission application will be required if a student is readmitted after an enrollment break of at least one semester.
- Any student who believes that his or her admission to the program or registration for an upper-level accounting or business course was not evaluated properly may file an appeal with the Dean of the College of Business and Industry. The Dean's decision shall be final.

One-Semester Enrollment for School of Business Majors

Students who have not completed all of the requirements for admission to the School of Business may apply for **one-semester enrollment** privileges to take upper-level School of Business courses. A **student-initiated application** must be approved by the student's academic advisor. This privilege is for one term (Fall, Spring, or Summer) and will be granted only once. Students must then apply for admission and be approved before registering for upper-level classes in any subsequent term.

Non-Business Majors Seeking a School of Business Minor

Non-business majors seeking a School of Business minor must declare their intent in writing to the School of Business. These students may enroll in ACCT 304, ACCT 315, FINC 340, MGMT 360, and/or MKTG 310 if they have completed at least 44 credits by the time of registration and also meet specific course prerequisites. Enrollment in other upper-level School of Business courses will require that a "program override" be obtained from the School of Business. A maximum of 21 upper-level

School of Business credits may be taken without applying for admission to the School of Business. Students who subsequently decide to pursue a School of Business major:

- must apply for admission to the School of Business;
- must enroll in at least 50% of the business credits (core plus major) at MSUM **after admission**.

Enrollment in Upper-Level School of Business Courses by Non-Business Majors and Minors

Several courses offered by the School of Business have been identified by other departments as required or elective courses for students in non-business programs. Students may complete a maximum of 21 upper-level credits without seeking School of Business admission. These students may enroll in upper-level School of Business courses as follows:

- Students who have completed 44 semester credits and who also meet the specific course prerequisites may register for the following courses without any special permission: ACCT 304, ACCT 315, FINC 340, MGMT 360, MKTG 310;
- Students whose departments/programs have identified other upper-level School of Business courses as required or elective courses may obtain a "program override" either from the chair of their major department or from the School of Business. Students are expected to have at least junior standing and meet course prerequisites when taking each course.

Students who subsequently decide to seek a School of Business major:

- must apply for admission to the School of Business;
- must enroll in at least 50% of the business credits (Core plus Major) at MSUM **after admission**.

Graduation Policy for School of Business

All School of Business majors must have a 2.25 overall GPA to graduate. This GPA is based solely on courses taken at MSUM. All School of Business minors must have a 2.00 GPA in courses comprising the minor.

Baccalaureate Degree Programs

Majors in Accounting, Business Administration, Finance, International Business, Management and Marketing are offered. The following program descriptions are subject to change. See Program Worksheets for current degree requirements.

At least 64 non-business semester credits are required. At least half of the minimum credits required for degree completion must be earned from departments other than Accounting, Business Administration and Economics. A maximum of 9 credits of economics can be used to meet this requirement.

Substitution and waivers of courses required for the B.S. degree in Accounting, Business Administration, Finance, International Business, Management and Marketing must be approved in writing by the chair of the School of Business.

At least half of the course requirements for the major or minor must be earned on this campus.

Business majors require:

- completion of related requirements;
- completion of core requirements;
- completion of major requirements and restricted electives; and
- at least 64 non-business credits that may include 9 credits of economics.

STUDENT LEARNING OUTCOMES

Students who graduate from Minnesota State University Moorhead with a major from the School of Business should be able to:

- Exhibit basic knowledge of business principles and processes.
- Write in a clear and professional manner.
- Prepare and deliver effective business presentations.
- Effectively use technologies appropriate to their discipline.
- Identify and analyze ethical issues in a professional context.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each major, typically will have met the School of Business approved upper level writing requirement. See the School of Business or faculty advisor for specific details.

B. S. DEGREE, MAJOR IN ACCOUNTING (82-83 Credits)

Core Requirements (27 Credits)

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 ACCT 304 Legal Environment of Business (3)
 ACCT 315 Accounting Systems (3)
 BUS 498 Business Policy and Strategy (3)
 FINC 340 Financial Management (3)
 MGMT 360 Principles of Management (3)
 MGMT 380 Operations Management (3)
 MKTG 310 Principles of Marketing (3)

Related Requirements (28-29 Credits)

In addition to the courses listed below, students must take one global course and one demographic diversity course. This requirement can be met by taking one course in Dragon Core 7 and one course in Dragon Core 8.

CMST 100 Speech Communication (3)
 CSIS 104 Spreadsheet and Database Applications (3)
 ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 MATH 229 Fundamentals of Applied Mathematics (3)
 MATH 234 Introduction to Probability and Statistics (4)
 PHIL 312 Business Ethics (3)
 PSY 113 General Psychology (3)
 AND SOC 110 Introduction to Sociology (3)
 OR PSY 113 General Psychology (3)
 AND PSY 220 Social Behavior (3)
 OR SOC 110 Introduction to Sociology (3)
 AND SOC 230 Social Psychology (3)
 ENGL 387 Technical Report Writing (4)
 OR CMST 301 Business and Professional Communication (3)

Requirements (24 Credits)

ACCT 306 Contracts and Business Entities (3)
 ACCT 330 Intermediate Accounting I (3)
 ACCT 331 Intermediate Accounting II (3)
 ACCT 340 Introduction to Taxation (3)
 ACCT 350 Cost Accounting (3)
 ACCT 430 Advanced Accounting (3)
 ACCT 431 Non-Profit Accounting (3)
 ACCT 460 Audit I (3)

Restricted Electives (3 Credits)

(Students may apply up to three semester hours of ACCT 469 to this category.)
 ACCT 307 Commercial Transactions, Property and Special Topics (3)
 ACCT 420 International Accounting (3)
 ACCT 441 Individual Income Tax (3)
 ACCT 441L Individual Income Tax-VITA Experience (1)
 ACCT 443 Corporate/Partnership Tax (3)
 ACCT 446 Estate, Gift and Trust Taxation (3)
 ACCT 461 Audit II (3)
 ACCT 469 Internship (1-12)
 ACCT 490 Topics in Accounting (1-3)

MINOR IN ACCOUNTING:

BUSINESS MAJOR (15 Credits)

Requirements (12 Credits)

ACCT 315 Accounting Systems (3)
 ACCT 330 Intermediate Accounting I (3)
 ACCT 331 Intermediate Accounting II (3)
 ACCT 340 Introduction to Taxation (3)

Restricted Electives (3 Credits)

Students will choose one additional accounting course numbered 306 or higher.

**MINOR IN ACCOUNTING:
NON-BUSINESS MAJOR (24 Credits)**

Requirements (24 Credits)

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- ACCT 304 Legal Environment of Business (3)
- ACCT 306 Contracts and Business Entities (3)
- ACCT 315 Accounting Systems (3)
- ACCT 330 Intermediate Accounting I (3)
- ACCT 331 Intermediate Accounting II (3)
- ACCT 340 Introduction to Taxation (3)

**MAJORS IN BUSINESS ADMINISTRATION,
FINANCE, INTERNATIONAL BUSINESS,
MANAGEMENT AND MARKETING**

Core Requirements (27 Credits)

The core courses listed below are required of all students who major in Business Administration, Finance, International Business, Management, or Marketing.

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- ACCT 304 Legal Environment of Business (3)
- BUS 498 Business Policy and Strategy (3)
- FINC 340 Financial Management (3)
- MGMT 360 Principles of Management (3)
- MGMT 370 Management Information Systems (3)
- MGMT 380 Operations Management (3)
- MKTG 310 Principles of Marketing (3)

Related Requirements (28-29 Credits)

In addition to the courses listed, students must take one Global Course and one demographic diversity course. This requirement can be met by taking one course in Dragon Core 7 and one course in Dragon Core 8.

- CMST 100 Speech Communication (3)
- CSIS 104 Spreadsheet and Database Applications (3)
- ECON 202 Principles of Economics I: Micro (3)
- ECON 204 Principles of Economics II: Macro (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- PHIL 312 Business Ethics (3)
- PSY 113 General Psychology (3)
 - AND SOC 110 Introduction to Sociology (3)
- OR PSY 113 General Psychology (3)
 - AND PSY 220 Social Behavior (3)
- OR SOC 110 Introduction to Sociology (3)
 - AND SOC 230 Social Psychology (3)
- ENGL 387 Technical Report Writing (4)
 - OR CMST 301 Business and Professional Communications (3)

**B.S. DEGREE, MAJOR IN BUSINESS
ADMINISTRATION (79-80 Credits)**

Core Requirements (27 Credits)

Students must complete the twenty-seven credits of core requirement courses.

Related Requirements (28-29 Credits)

Requirements (12 Credits)

Students must choose one management, one finance, and one marketing course from those listed below. In addition, students must take one of the following quantitative courses: MGMT 480, MKTG 422, MKTG 419, or ECON 370.

- MGMT 420 Organizational Theory (3)
 - OR MGMT 451 Organizational Behavior (3)
- FINC 325 Financial Institutions and Markets (3)
 - OR FINC 360 Principles of Investment (3)
- MKTG 311 Marketing Management (3)
 - OR MKTG 421 Consumer Behavior (3)

Restricted Electives (12 Credits)

Students must take twelve credits numbered 300 or above from at least two of the following areas: Accounting, Finance, Economics, Management, and Marketing. One of the courses must have an international emphasis (select from MGMT 458, MKTG 444, FINC 445, ACCT 420, ECON 425 or ECON 300. Students may use any combination of three credits of the following courses to satisfy a maximum of one Business Administration elective.

- FINC 406 Small Business Management Consulting (1-2)
- FINC 469 Student Internship (2-8)
- FINC 497 Problems in Finance (1-3)
- MGMT 406 Small Business Management Consulting (1-2)
- MGMT 469 Student Internship (2-8)
- MGMT 497 Problems in Management (1-3)
- MKTG 406 Small Business Management Consulting (1-2)
- MKTG 469 Student Internship (2-8)
- MKTG 497 Problems in Marketing (1-3)

**MINOR IN BUSINESS ADMINISTRATION:
BUSINESS MAJOR (15 Credits)**

Restricted Electives (15 Credits)

Students must take fifteen credits in Business Administration courses above the major requirements in any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements. The courses must be chosen from at least two of the following areas: Accounting, Economics, Finance, Management, or Marketing.

**MINOR IN BUSINESS ADMINISTRATION:
NON-BUSINESS MAJOR (25 Credits)****Requirements (19 Credits)**

ACCT 230 Principles of Accounting I (3)
 ECON 202 Principles of Economics I: Micro (3)
 FINC 340 Financial Management (3)
 MATH 234 Introduction to Probability and Statistics (4)
 MGMT 360 Principles of Management (3)
 MKTG 310 Principles of Marketing (3)

Restricted Electives (6 Credits)

Students must choose one course from two of the following course groupings: MGMT 380, 420, or 451; MKTG 311, 421, or 422; FINC 360 or 445.

**B.S. DEGREE MAJOR IN FINANCE
(79-80 Credits)****Core Requirements (27 Credits)****Related Requirements (28-29 Credits)****Requirements (18 Credits)**

ECON 320 Money and Banking (3)
 OR FINC 325 Financial Institutions and Markets (3)
 FINC 360 Principles of Investment (3)
 FINC 425 Bank Management (3)
 FINC 441 Advanced Financial Management (3)
 FINC 445 International Financial Management (3)
 FINC 460 Portfolio Analysis and Management (3)

Restricted Electives (6 Credits)

Students may choose any two of the following courses. Students may not use more than three credits from FINC 406, FINC 469, and FINC 497 to satisfy this section.

FINC 352 Principles of Insurance and Risk Management (3)
 FINC 354 Real Estate Finance and Investments (3)
 FINC 406 Small Business Management Consulting (1-2)
 FINC 446 Financial Decision Making (3)
 FINC 463 Futures and Options (3)
 FINC 469 Student Internship (2-8)
 FINC 495 Special Topics in Finance (3)
 FINC 497 Problems in Finance (1-3)

**MINOR IN FINANCE: BUSINESS MAJOR
(15 Credits)****Restricted Electives (15 Credits)**

Students must take fifteen credits in Finance courses above the major requirements for any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

**MINOR IN FINANCE: NON-BUSINESS
MAJOR (25 Credits)****Requirements (19 Credits)**

ACCT 230 Principles of Accounting I (3)
 ECON 202 Principles of Economics I: Micro (3)
 FINC 340 Financial Management (3)
 FINC 360 Principles of Investment (3)
 FINC 445 International Financial Management (3)
 MATH 234 Introduction to Probability and Statistics (4)

Restricted Electives (6 Credits)

Students must earn six credits in Finance electives. Students may not use Accounting or Economics courses to fulfill this requirement.

**B.S. DEGREE, MAJOR IN INTERNATIONAL
BUSINESS (92-93 Credits)****Core Requirements (27 Credits)****Related Requirements (28-29 Credits)****Requirements (15 Credits)**

ACCT 420 International Accounting (3)
 ECON 425 International Trade and Finance (3)
 FINC 445 International Financial Management (3)
 MGMT 458 International Management (3)
 MKTG 444 International Marketing (3)

Restricted Electives (6 Credits)

Students must take two courses from the following list.

ANTH 303 Cross Cultural Gender (3)
 ANTH 348 Ideas of Culture (3)
 ECON 300 Global Economic Issues (3)
 ECON 335 Comparative Systems and Economic Development (3)
 INTL 105 Introductino to Global Issues (3)
 MC 300 International Communications (3)
 PHIL 120 World Religions (3)
 POL 160 International Relations (3)
 POL 350 Comparative Governments of Western Europe (3)
 POL 360 American Foreign Policy (3)
 POL 361 International Political Economy (3)
 POL 363 Public International Law (3)
 POL 366 International Conflict Resolution (3)
 POL 369 International Organizations (3)

Continent/Country specific courses will be allowed subject to advisor and chair approval.

Electives (16 Credits) (2 years)

All students must take two years of a foreign language. All or part of this requirement may be waived due to demonstrated competency.

**MINOR IN INTERNATIONAL BUSINESS:
BUSINESS MAJOR (15 Credits)****Requirements (15 Credits)**

In addition to the course listed below, students must take six credits in Management courses above the International Business requirements. Courses which satisfy major requirements cannot be used to satisfy minor requirements. Students must also take two courses from ACCT 420, ECON 425, FINC 445, and MKTG 444. Any student who takes MGMT 458 as part of their major must substitute another three credit management course.

MGMT 458 International Management (3)

**MINOR IN INTERNATIONAL BUSINESS:
NON-BUSINESS MAJOR (25 Credits)****Requirements (19 Credits)**

ACCT 230 Principles of Accounting I (3)
ECON 202 Principles of Economics I: Micro (3)
FINC 340 Financial Management (3)
MATH 234 Introduction to Probability and Statistics (4)
MGMT 360 Principles of Management (3)
MKTG 310 Principles of Marketing (3)

Restricted Electives (6 Credits)

Students must take two of the following courses:
FINC 445 International Financial Management (3)
MGMT 458 International Management (3)
MKTG 444 International Marketing (3)

**B.S. DEGREE, MAJOR IN MANAGEMENT
(79-80 Credits)****Core Requirements (27 Credits)****Related Requirements (28-29 Credits)****Requirements (18 Credits)**

MGMT 419 Supply Chain Management (3)
OR MKTG 419 Supply Chain Management (3)
MGMT 420 Organizational Theory (3)
MGMT 440 Personnel Management (3)
MGMT 451 Organizational Behavior (3)
MGMT 458 International Management (3)
MGMT 480 Management Science (3)

Restricted Electives (6 Credits)

Students may choose any two of the following courses. Students may not use more than three credits from MGMT 406, MGMT 469, or MGMT 497 to satisfy this section. Students may choose to substitute ECON 302 and 304 for a listed restrictive elective with approval from the advisor and chair.
BUS 365 Entrepreneurship (3)
MGMT 315 Government and Business (3)
MGMT 405 Small Business Management (3)
MGMT 406 Small Business Management Consulting (1-2)

MGMT 415 Industrial Organization and Public Policy (3)
MGMT 416 Labor Economics (3)
MGMT 441 Labor Relations (3)
MGMT 442 Compensation and Benefits (3)
MGMT 456 Project Management in Business (3)
MGMT 469 Student Internship (2-8)
MGMT 495 Special Topics in Management (3)
MGMT 497 Problems in Management (1-3)

**MINOR IN MANAGEMENT: BUSINESS
MAJOR (15 Credits)****Restricted Electives (15 Credits)**

Students must take fifteen credits in Management courses above the management requirements in any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

**MINOR IN MANAGEMENT: NON-BUSINESS
MAJOR (25 Credits)****Requirements (22 Credits)**

ACCT 230 Principles of Accounting I (3)
ECON 202 Principles of Economics I: Micro (3)
MATH 234 Introduction to Probability and Statistics (4)
MGMT 360 Principles of Management (3)
MGMT 380 Operations Management (3)
MGMT 405 Small Business Management (3)
OR MGMT 440 Personnel Management (3)
MGMT 420 Organizational Theory (3)
OR MGMT 451 Organizational Behavior (3)

Restricted Electives (3 Credits)

Students must take one three credit Management elective.

**B.S. DEGREE, MAJOR IN MARKETING
(79-80 Credits)****Core Requirements (27 Credits)****Related Requirements (28-29 Credits)****Requirements (18 Credits)**

MKTG 311 Marketing Management (3)
MKTG 419 Supply Chain Management (3)
OR MGMT 419 Supply Chain Management (3)
MKTG 421 Consumer Behavior (3)
MKTG 422 Marketing Research (3)
MKTG 442 Services Marketing (3)
MKTG 444 International Marketing (3)

Restricted Electives (6 Credits)

Students may choose any two of the following courses. Students may not use more than three credits from MKTG 406, MKTG 469, and MKTG 497 to satisfy this section.
MKTG 315 Industrial Marketing (3)
MKTG 330 Personal Selling (3)

MKTG 335 Retail Management (3)
 MKTG 406 Small Business Management
 Consulting (1-2)

MKTG 423 Marketing Communications (3)
 MKTG 441 Business and Society (3)
 MKTG 442 Marketing Seminar (3)
 MKTG 469 Student Internship (2-8)
 MKTG 497 Problems in Marketing (1-3)

MINOR IN MARKETING: BUSINESS MAJOR (15 Credits)

Requirements (15 Credits)

In addition to the courses listed below, students must take six credits in Marketing courses above the marketing requirements in any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

MKTG 311 Marketing Management (3)
 MKTG 421 Consumer Behavior (3)
 MKTG 422 Marketing Research (3)

MINOR IN MARKETING: NON-BUSINESS MAJOR (21 Credits)

Requirements (15 Credits)

ECON 202 Principles of Economics I: Micro (3)
 MKTG 310 Principles of Marketing (3)
 MKTG 311 Marketing Management (3)
 MKTG 421 Consumer Behavior (3)
 MKTG 422 Marketing Research (3)

Restricted Electives (6 Credits)

Students must take six credits of Marketing electives.

CERTIFICATE IN E-BUSINESS (24 Credits)

Requirements (21 Credits)

EBUS 280 Intro to E-Business (3)
 EBUS 340 E-Commerce and Enterprise Resource
 Planning (3)
 EBUS 360 Law and Ethics in E-Business (3)
 EBUS 410 Web-Based Marketing (3)
 EBUS 420 Online Customer Relationship
 Management (3)
 EBUS 430 Electronic Supply Chain Management (3)
 EBUS 470 E-Business Project Management (3)

Electives (3 Credits)

Students will choose three one credit electives in E-Business courses.

Chemistry

Chemistry Department

Hagen Hall 407, (218) 477-2136

Chair: Gary Edvenson

Faculty: Jeffrey Bodwin, Shawn Dunkirk, Craig Jasperse, Richard Lahti, Asoka Marasinghe, Abbas Pezeshk

Minnesota State University Moorhead's Chemistry Department is on the Approved List of the American Chemical Society (ACS). Less than half of the nation's chemistry departments meet the rigorous standards set by the ACS Committee on Professional Training for faculty, library resources, laboratory space, equipment, and curriculum. A major strength of the chemistry program is its emphasis on undergraduate research. Five different degrees are available:

- B.S. degree in chemistry (ACS approved);
- B.A. degree in chemistry with emphasis in biological chemistry, chemical physics, computational chemistry, liberal arts chemistry or mathematics;
- B.A. biology/chemistry double major with emphasis in biochemistry and biotechnology;
- B.S. dual cooperative degree in chemistry and chemical engineering;
- B.S. degree in chemistry teaching.

The B.S. degree in chemistry is a rigorous four-year course of study designed for those students who plan graduate programs in chemistry and its related fields, a career in chemical industries, or chemical professions. ACS is an organization of professional chemists that, among other activities, sets standards for chemistry education.

The B.A. degree in chemistry can be earned with emphases in a number of areas such as biological chemistry, chemical physics, computational chemistry, liberal arts chemistry or mathematics. This flexibility allows students to include the related field courses in their chemistry program that best fit their future career, graduate school or professional school needs.

The B.A. degree in chemistry with emphasis in biochemistry and biotechnology is a degree that combines studies in both biology and chemistry. This emphasis is designed to teach advanced laboratory skills in the major areas of biochemistry and biotechnology. It provides a laboratory-rich, research-based experience that emphasizes hands-on learning. It includes the application of techniques used in the study of enzymology, cellular physiology, molecular biology and immunology. Students finishing this program will have a double major in chemistry and biology.

The Department also offers a five-year, B.S. dual degree program in chemistry and chemical engineering in conjunction with the University of Minnesota or the University of North Dakota.

The B.S. degree in chemistry teaching is part of the certification process to teach chemistry in Minnesota high schools. Students completing this major may also be certified to teach middle school science, grades 5-8. In addition to completing the chemistry core curriculum and middle school science coursework, students must also complete courses in professional (teacher) education.

STUDENT LEARNING OUTCOMES

Students are to gain:

- basic knowledge and understanding of the fundamentals of experimental and theoretical chemistry;
- skills in analytical thinking, problem solving and application of scientific methods to experimental data;
- skills in laboratory operations including techniques, instrumentation, experimental design, interpretation and reporting of experimental results;
- the ability to design and conduct chemical research projects;
- written and oral communication skills.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN CHEMISTRY (64 Credits)

Requirements (47 Credits)

Students must earn at least three credits in CHEM 497.
 CHEM 200 General Chemistry I (4)
 CHEM 200L General Chemistry I Laboratory (0)
 CHEM 210 General Chemistry II (4)
 CHEM 210L General Chemistry II Laboratory (0)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Survey of Organic Chemistry: Part I (3)
 CHEM 355 Organic Chemistry Laboratory I (1)
 CHEM 360 Survey of Organic Chemistry: Part II (3)
 CHEM 365 Organic Chemistry Laboratory II (1)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 380L Chemistry 380 Laboratory (0)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CHEM 420 Inorganic Chemistry II (3)
 CHEM 425 Inorganic Chemistry Laboratory (1)
 CHEM 450 Physical Chemistry I (3)
 CHEM 455 Physical Chemistry Laboratory I (1)

CHEM 460 Physical Chemistry II (3)
 CHEM 465 Physical Chemistry Laboratory II (1)
 CHEM 480 Analytical Chemistry II (4)
 CHEM 497 Undergraduate Research (1-3)
 CHEM 498 Seminar (1)

Restricted Electives (1 Credit)

Students must earn at least one additional upper-division credit (300 or higher) from Chemistry or related fields.

Related Requirements (16 Credits)

MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 PHYS 200 General Physics I (4)
 PHYS 201 General Physics II (4)

B.A. DEGREE IN CHEMISTRY (67-75 Credits)

Core Requirements (27 Credits)

The core is required of all students who major in one of the B.A. in Chemistry emphases: Biological Chemistry, Chemical Physics, Computational Chemistry, Liberal Arts Chemistry, or Mathematical Chemistry.

CHEM 200 General Chemistry I (4)
 CHEM 210 General Chemistry II (4)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Survey of Organic Chemistry: Part I (3)
 CHEM 355 Organic Chemistry Laboratory I (1)
 CHEM 360 Survey of Organic Chemistry: Part II (3)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 450 Physical Chemistry I (3)
 CHEM 455 Physical Chemistry Laboratory I (1)
 CHEM 498 Seminar (1)

EMPHASIS IN BIOLOGICAL CHEMISTRY (71 Credits)

Core Requirements (27 Credits)

Students must complete the courses listed as "Core Requirements" under the B.A. Degree in Chemistry.

Requirements (20 Credits)

In addition to the listed courses, students must earn eight elective credits in Biology which are at the 300 level or higher.

BIOL 111 Cell Biology (4)
 BIOL 341 Genetics (4)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)

Restricted Electives (4 Credits)

Students must earn at least four upper-division (300 level or higher) credits in Chemistry or related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)

ENGL 387 Technical Report Writing (4)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

OR MATH 234 Introduction to Probability and Statistics (4)

PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)**OR** PHYS 200 General Physics I (4)**AND** PHYS 201 General Physics II (4)**EMPHASIS IN CHEMICAL PHYSICS****(67 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Requirements (16 Credits)

In addition to the listed courses, students must complete at least two elective courses in Physics which are at the 300 level or higher.

PHYS 305 Experimental Physics I (2)

PHYS 306 Experimental Physics II (2)

PHYS 322 Elementary Modern Physics (3)

PHYS 350 Computational Methods for Physical Science (3)

Restricted Electives (5 Credits)

Students must earn four upper-division (300 level or higher) elective credits in Chemistry. In addition, students must earn one additional upper-division credit from Chemistry, or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)

ENGL 387 Technical Report Writing (4)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)**OR** PHYS 200 General Physics I (4)**AND** PHYS 201 General Physics II (4)**EMPHASIS IN COMPUTATIONAL****CHEMISTRY (75 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Requirements (20 Credits)

In addition to the listed courses, students must complete at least nine elective credits in CSIS that are at the 300 level or higher.

CHEM 400 Biochemistry I (3)

CSIS 152 Introduction to Computers and Programming I (4)

CSIS 252 Introduction to Computers and Programming II (4)

Restricted Electives (8 Credits)

Students must earn at least eight additional upper-division (300 level or higher) credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)

ENGL 387 Technical Report Writing (4)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

OR MATH 234 Introduction to Probability and Statistics (4)

PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)**OR** PHYS 200 General Physics I (4)**AND** PHYS 201 General Physics II (4)**EMPHASIS IN LIBERAL ARTS CHEMISTRY****(67 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Restricted Electives (20 Credits)

Students must earn four upper-division (300 level and higher) credits in chemistry electives. In addition, students must earn at least sixteen upper-division credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)

ENGL 387 Technical Report Writing (4)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

OR MATH 234 Introduction to Probability and Statistics (4)

PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)**OR** PHYS 200 General Physics I (4)**AND** PHYS 201 General Physics II (4)**EMPHASIS IN MATHEMATICAL CHEMISTRY****(67 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Requirements (10 Credits)

In addition to MATH 323, students must complete six elective credits in mathematics courses that are at the 300 level or higher.

MATH 323 Multi-Variable and Vector Calculus (4)

Restricted Electives (10 Credits)

Students must earn four upper-division (300 level or higher) credits in Chemistry electives. In addition, students must earn at least six additional upper-division credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)

ENGL 387 Technical Report Writing (4)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)

OR PHYS 200 General Physics I (4)

AND PHYS 201 General Physics II (4)

EMPHASIS IN BIOCHEMISTRY AND BIOTECHNOLOGY (81-82 Credits)**Requirements (58 Credits)**

BIOL 111 Cell Biology (4)

BIOL 115 Organismal Biology (4)

BIOL 341 Genetics (4)

BIOL 350 Microbiology (4)

BIOL 385 Molecular Biology (3)

BIOL 385L Biology 385 Lab (1)

CHEM 200 General Chemistry I (4)

CHEM 210 General Chemistry II (4)

CHEM 350 Survey of Organic Chemistry: Part I (3)

CHEM 355 Organic Chemistry Laboratory I (1)

CHEM 360 Survey of Organic Chemistry: Part II (3)

CHEM 365 Organic Chemistry Laboratory II (1)

CHEM 380 Analytical Chemistry I (4)

CHEM 400 Biochemistry I (3)

CHEM 405 Biochemistry Laboratory I (1)

CHEM 410 Biochemistry II (3)

CHEM 415 Biochemistry Laboratory II (1)

BIOL 475 Biotechniques I (5)

OR CHEM 475 Biotechniques I (5)

BIOL 476 Biotechniques II (5)

OR CHEM 476 Biotechniques II (5)**Restricted Electives (7-8 Credits)**

Students must select one course from the Physiology area (BIOL 347 or 360) and one course from the Cellular and Molecular area (BIOL 365 or 430).

Related Requirements (16 Credits)

Students must choose a Physics sequence (PHYS 160 and 161 or PHYS 200 and 201) and a Mathematics sequence (MATH 234 and 261 or MATH 261 and 262), PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)

OR PHYS 200 General Physics I (4)

AND PHYS 201 General Physics II (4)

OR MATH 234 Introduction to Probability and Statistics (4)

AND MATH 261 Calculus I (4)

OR MATH 261 Calculus I (4)

AND MATH 262 Calculus II (4)

B.S. DEGREE IN CHEMISTRY-TEACHING (101 Credits)**Requirements (30 Credits)**

Students must fulfill all teacher licensure requirements which will add 33 credits to the major.

Students must earn at least one credit in CHEM 497.

CHEM 200 General Chemistry I (4)

CHEM 210 General Chemistry II (4)

CHEM 300 Inorganic Chemistry I (3)

CHEM 350 Survey of Organic Chemistry: Part I (3)

CHEM 355 Organic Chemistry Laboratory I (1)

CHEM 380 Analytical Chemistry I (4)

CHEM 400 Biochemistry I (3)

CHEM 440 Secondary Science Teaching Methods (3)

CHEM 450 Physical Chemistry I (3)

CHEM 455 Physical Chemistry Laboratory I (1)

CHEM 497 Undergraduate Research (1-3)

Restricted Electives (8 Credits)

Students will earn 8-10 credits in this area depending on the Physics sequence (PHYS 160-161) or (PHYS 200-201) they choose.

PHYS 160 College Physics I (4)

AND PHYS 161 College Physics II (4)

OR PHYS 200 General Physics I (4)

AND PHYS 201 General Physics II (4)

Related Requirements (30 Credits)

BIOL 111 Cell Biology (4)

BIOL 115 Organismal Biology (4)

BIOL 305 General Botany (4)

GEOS 115 Physical Geology (4)

GEOS 116 Historical Geology (3)

GEOS 360 Planetary Science (3)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

OR MATH 234 Introduction to Probability and Statistics (4)**MINOR IN CHEMISTRY (22 Credits)****Requirements (12 Credits)**

CHEM 200 General Chemistry I (4)

CHEM 210 General Chemistry II (4)

CHEM 350 Survey of Organic Chemistry: Part I (3)

CHEM 355 Organic Chemistry Laboratory I (1)

Electives (10 Credits)

Students must earn ten credits in Chemistry electives at the 200 level or above.

Chinese

See Languages and Cultures

Classics

**Dean of Arts and Humanities
Bridges 250**

One year of college Latin is regularly offered and courses in related subjects—especially art, archaeology, Greek and Latin literature in translation, ancient history, and classical philosophy—are available to interested students. Additional courses in Latin, and courses in Greek as well, may be taken by Minnesota State University Moorhead students at Concordia College and at North Dakota State University (Cardinal Muench Seminary) through the Tri-College University.

Communications

See Communication Studies, Film Studies, and Theatre Arts; Mass Communications; Speech/Language/Hearing Sciences; or Technology Departments for degree programs.

Communication Studies

Communication Studies, Film Studies, and Theatre Arts Department

Roland Dille Center for the Arts 116, (218) 477-2126

Chair: Craig Ellingson

Faculty: Jason Anderson, Tom Brandau, Harold “Rusty” Casselton, Elizabeth Evert-Karnes, Denise Gorsline, Virginia Gregg, Theresa Hest, Kyja Kristjansson-Nelson, Kristin Larson, Molly Schmidt, David Tschida, David Wheeler

The Communication Studies major is a broad-based, flexible major that includes theoretical and applied courses that will develop a student’s competence as a communicator. Our program of study combines the traditions of research, theory, and practice while addressing issues of technology, diversity, popular culture, and ethics in all of our courses. Graduates work in a variety of professions, including human resources, sales, and training.

The faculty and students of the Communication Studies, Film Studies, and Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. In each of the three areas of the department – Communication Studies, Film Studies, and Theatre Arts – we provide a challenging,

contemporary, relevant curriculum within the context of the Liberal Arts that prepares our graduates to become contributing and ethical citizens in a diverse, global community. We promote creativity, critical thinking, and lifelong discovery through courses that integrate theory and history with practice and application.

STUDENT LEARNING OUTCOMES

Students who graduate with a degree from Minnesota State University Moorhead with a major in Communication Studies should meet the following objectives:

- Students will demonstrate foundational knowledge of communication research methods and the role of research in the creation of knowledge.
- Students will be able to recognize, diagnose, and respond to communication situations using appropriate communication theories and concepts.
- Students will create effective communication messages in a variety of contexts and situations.
- Students will effectively present communication messages in a variety of contexts and situations.
- Students will analyze communication messages in a variety of cultures, contexts and situations.
- Students will demonstrate the knowledge to successfully manage group environments and/or interpersonal relationships.

UPPER LEVEL WRITING REQUIREMENT

Majors in Communication Studies will meet the upper level writing requirement though CMST 310 – Rhetorical Theory and Criticism.

**B.A. DEGREE IN COMMUNICATION STUDIES
(49 Credits)**

Requirements (21 Credits)

- CMST 100 Speech Communication (3)
- OR** CMST 105 Beginning Oral Interpretation (3)
- CMST 110 Introduction to Communication Studies (3)
- CMST 210 Introduction to Communication Theory (3)
- CMST 215 Communication Research Methods (3)
- FILM 270 Introduction to Telecommunications and Film (3)
- OR** CMST 313 Communication, Technology, and Culture (3)
- CMST 310 Rhetorical Theory and Criticism (3)
- CMST 496 Senior Seminar (3)

Restricted Electives (19 Credits)

Students must choose twelve credits from courses with a Theory focus (CMST 300, 308, 311, 315, 401, 410, or 414) and seven credits from courses with a Performance focus (Practica, 111, 301, 309, 361, 405, 406, 415, or 469). One of the performance focus

courses must be selected from CMST 111, CMST 301, CMST 309, CMST 415, or a department-approved substitute.

- CMST 101A Practicum (1)
- CMST 101B Practicum (1)
- CMST 101C Practicum (1)
- CMST 101D Practicum (1)
- CMST 102 Practicum (1)
- CMST 202 Practicum (1)
- CMST 111 Argumentation and Debate (3)
- CMST 300 Intercultural Communication (3)
- CMST 301 Business and Professional Communication (3)
- CMST 302 Practicum (1)
- CMST 308 Leadership and Group Communication (3)
- CMST 309 Training and Development (3)
- CMST 311 Principles of Persuasion (3)
- CMST 315 Interpersonal Communication (3)
- CMST 361 Advanced Forensics (1)
- CMST 401 Organizational Communication (3)
- CMST 402 Practicum (1)
- CMST 405 Research Practicum (1)
- CMST 406 Academic Service-Learning Practicum (1)
- CMST 410 The Rhetoric of Popular Culture (3)
- CMST 414 Health Communication (3)
- CMST 415 Teaching Methods: Communication Studies (3)
- CMST 469 Internship (3-12)

Related Requirements (3 Credits)

Students must select one course from the following:

- ACCT 321 Employment Law (3)
- CSIS 103 Computer Concepts and Applications (3)
- MC 220 Desktop Publishing (3)
- MC 303 Advertising Principles (3)
- MC 304 Public Relations Principles (3)
- MC 423 Marketing Communications (3)
- MGMT 360 Principles of Management (3)
- PHIL 101 Introduction to Western Philosophy (3)
- POL 340 Public Administration (3)
- PSY 220 Social Behavior (3)
- PSY 323 Industrial/Organizational (3)
- SOC 412 Sociology of Complex Organizations (3)
- WS 247 Women's Studies (3)

Electives (6 Credits)

Elective choices must be CMST courses at the 300 level or higher.

MINOR IN COMMUNICATION STUDIES

(15 Credits)

Requirements (9 Credits)

- CMST 100 Speech Communication (3)
- CMST 210 Introduction to Communication Theory (3)
- CMST 215 Communication Research Methods (3)
- OR** CMST 310 Rhetorical Theory and Criticism (3)
- OR** CMST 410 The Rhetoric of Popular Culture (3)

Electives (6 Credits)

- Students must take six credits in communication studies electives which are at the 300 level or above.
- CMST 300 Intercultural Communication (3)
 - CMST 301 Business and Professional Communication (3)
 - CMST 308 Leadership and Group Communication (3)
 - CMST 309 Training and Development (3)
 - CMST 310 Rhetorical Theory and Criticism (3)
 - CMST 311 Principles of Persuasion (3)
 - CMST 315 Interpersonal Communication (3)
 - CMST 390 Topics in Communication (1-3)
 - CMST 401 Organizational Communication (3)
 - CMST 410 The Rhetoric of Popular Culture (3)
 - CMST 414 Health Communication (3)
 - CMST 415 Teaching Methods: Communication Studies (3)
 - CMST 416 Special Projects in Speech Communication (1-3)
 - CMST 490 Topics in Communication (1-3)

Computer Science and Information Systems

**Computer Science and Information Systems
Department**

Bridges 160, (218) 477-2299

Chair: Daniel Brekke

Faculty: AbdelFatah (Abdu) Bashir, Yurii Boreisha, Andrew Chen, Rhonda Ficek, John C. Gaffrey, Michael Haugrud, Richard Walker

The Computer Science and Information Systems Department (CSIS) offers programs of study in two areas: Computer Science and Computer Information Systems. Programs of study in Computer Science are intended for students planning to work in the high technology computer industry or pursue graduate work in computer science. Programs of study in Computer Information Systems are intended for students planning to work in applied areas that utilize computers as application tools.

STUDENT LEARNING OUTCOMES

Students will demonstrate:

- writing skills needed to communicate appropriately in a highly technical area: good grammar, spelling and punctuation; logical organization of ideas in a document; good presentation of ideas in a document;
- oral skills needed to communicate appropriately in: logical organization of an oral presentation; good delivery of an oral presentation; appropriate use of visual aids in an oral presentation;
- understanding of the legal, ethical and social issues in the computing discipline;
- competence in all phases of the Software Development Life Cycle- Analysis, Design, Coding, Testing, Maintenance, and Ongoing documentation for all the above phases;
- understanding of algorithm analysis, design and implementation techniques;
- understanding of data structures theory;
- understanding of operating systems theory;
- understanding of language translation theory;
- understanding of system and software engineering theory;
- understanding of computer architecture theory.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN COMPUTER SCIENCE

(85-86 Credits)

Requirements (37 Credits)

- CSIS 152 Introduction to Computers and Programming I (4)
- CSIS 252 Introduction to Computers and Programming II (4)
- CSIS 220 Digital Logic and Lab (4)
- CSIS 320 Architecture (3)
- CSIS 340 Software Engineering (4)
- CSIS 349 Networks and Data Communications (3)
- CSIS 352 Advanced Concepts in Programming (3)
- CSIS 430 Operating Systems (4)
- CSIS 435 Compilers (4)
- CSIS 450 Programming Languages (3)
- CSIS 485 Senior Seminar (1)

Restricted Electives (15 Credits)

Students must choose fifteen elective credits from the listed courses. At least nine of the fifteen elective credits must be at or above the 300 level, excluding CSIS 469 or CSIS 497. Students may apply no more

than four credits of CSIS 290 to the major. Students may apply no more than three credits of CSIS 260 and 469 to the major.

- CSIS 251 Assembly Language Programming(3)
- CSIS 257 Object-Oriented Software Development (3)
- CSIS 260 Current Programming Languages (3)
- CSIS 290 Special Topics (1-3)
- CSIS 330 Analysis and Design of Algorithms (3)
- CSIS 335 Graphical User Interface Programming (3)
- CSIS 345 Analysis and Design of Information Systems (3)
- CSIS 355 Systems Software (3)
- CSIS 358 Introduction to Parallel Computing (3)
- CSIS 360 UNIX Programming and Development Tools (3)
- CSIS 370 Social, Ethical, and Professional Issues in Computing (2)
- CSIS 405 E-Commerce Technology (3)
- CSIS 440 Computer Networks Software Concepts (3)
- CSIS 443 Artificial Intelligence (3)
- CSIS 444 Database Concepts, Design and Implementation (4)
- CSIS 445 Graphics (3)
- CSIS 446 Decision Support Systems (3)
- CSIS 469 Internship (1-6)
- CSIS 490 Topics in Computer Science (1-3)
- CSIS 497 Undergraduate Research (1-3)

Related Requirements (33-34 Credits)

In addition to the courses listed, students must complete one of the following sequences: (BIOL 111 and either BIOL 115 or 305 or BIOL 341) or (CHEM 200 and 210), or (PHYS 160-161) or (PHYS 200-201). And one course from scientific and/or quantitative areas. Scientific courses may be chosen from Astronomy, Biology, Chemistry, CSIS 130, and any CSIS course at or above the 200 level, Engineering, Geosciences, Technology, Mathematics at 300 level or above, or Physics at 200 level or above. Quantitative courses may be chosen from ACCT 230, ACCT 231, ACCT 330, ACCT 331, ACCT 350, PHIL 110, PHIL 340, ECON 202, ECON 204, ECON 302, ECON 304, ECON 320, or MGMT 480.

- CMST 100 Speech Communication (3)
- ENGL 387 Technical Report Writing (4)
- MATH 225 Discrete Mathematics (4)
- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- MATH 335 Intermediate Probability and Statistics I (3)

MINOR IN COMPUTER SCIENCE (24 Credits)

Requirements (11 Credits)

- CSIS 152 Introduction to Computers and Programming I (4)
- CSIS 252 Introduction to Computers and Programming II (4)
- CSIS 352 Advanced Concepts in Programming (3)

Electives (13 Credits)

Thirteen credits of electives to be chosen from the list of required or elective courses for the Computer Science major.

B.S. DEGREE IN COMPUTER INFORMATION SYSTEMS (75 Credits)

Requirements (34 Credits)

- CSIS 140 Introduction to Information Systems and Internet Technologies (4)
- CSIS 152 Introduction to Computers and Programming I (4)
- CSIS 252 Introduction to Computers and Programming II (4)
- CSIS 335 Graphical User Interface Programming (3)

OR

- CSIS 336 C#.Net Programming (3)
- CSIS 345 Analysis and Design of Information Systems (3)
- CSIS 346 Design, Implementation and Support of Information Systems (3)
- CSIS 349 Networks and Data Communications (3)
- CSIS 405 E-Commerce Technology (3)
- CSIS 444 Database Concepts, Design and Implementation (4)
- CSIS 446 Decision Support Systems (3)

Related Requirements (32 Credits)

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- CMST 100 Speech Communication (3)
- ENGL 387 Technical Report Writing (4)
- FINC 340 Financial Management (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- MGMT 360 Principles of Management (3)
- MGMT 380 Operations Management (3)
- MGMT 456 Project Management in Business (3)

Electives (9 Credits)

- Students may apply no more than three credits of CSIS 260, 469, 490, 497 to the major, and no more than four credits of CSIS 290 to the major.
- CSIS 250 File Organization, Processing, Maintenance, and Reporting (4)
 - CSIS 260 Current Programming Languages (3)
 - CSIS 290 Special Topics (1-3)
 - CSIS 316 Ethics in the Information Age (3)

- CSIS 335 Graphical User Interface Programming (3)
- CSIS 336 C#.Net Programming (3)
- CSIS 352 Advanced Concepts in Programming (3)
- CSIS 360 UNIX Programming and Development Tools (3)
- CSIS 370 Social, Ethical, and Professional Issues in Computing (2)
- CSIS 440 Computer Networks Software Concepts (3)
- CSIS 469 Internship (1-6)
- CSIS 490 Topics in Computer Science (1-3)
- CSIS 497 Undergraduate Research (1-3)

MINOR IN COMPUTER INFORMATION SYSTEMS (30 Credits)

Requirements (18 Credits)

- CSIS 152 Introduction to Computers and Programming I (4)
- CSIS 252 Introduction to Computers and Programming II (4)
- CSIS 140 Introduction to Information Systems and Internet Technologies (3)
- CSIS 250 File Organization, Processing, Maintenance and Reporting (4)
- CSIS 345 Analysis and Design of Information Systems (3)

Related Requirements (6 Credits)

- ACCT 230 Principles of Accounting I (3)
- MGMT 360 Principles of Management (3)

Electives (6 Credits)

Six credits of electives to be chosen from the list of required or elective courses for the Computer Information System major.

Construction Management

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Ron Williams

Program Coordinator: Scott Seltveit

Construction Management (CM) is a professional program that specifically trains graduates to manage, coordinate, and supervise the construction process from conceptual development through final construction on a timely and economical basis. Throughout the program, students learn the responsibilities of coordinating and managing people, materials and equipment, budgets, schedules, and contracts, as well as the safety of employees and the public.

Construction managers hold a variety of job titles, such as project manager, project engineer, estimator, scheduler, or construction manager. On large projects,

construction managers may work for a *general contractor* – the firm with overall responsibility of all construction management activities. They oversee the completion of all construction processes in accordance with the engineer’s or architect’s drawings and specifications. In addition, they arrange for subcontractors to perform specialized craftwork or other specified construction work.

The Construction Management (CM) program at MSUM is accredited by the American Council of Construction Education (ACCE), which establishes standards and criteria for excellence in construction education. The CM program at MSUM is the only Construction Management program in Minnesota accredited by ACCE.

Minor Offered

Students may enroll in a Construction Management minor. The requirements are listed after the CM major requirements.

STUDENT LEARNING OUTCOMES

Assessment provisions by the American Council of Construction Education require evaluation of student outcomes.

- **Communication Skills** - The student will be able to apply oral, written, graphic, and listening skills, as each is a critical component of effective communication.
- **Technical Skills** - The student will be able to implement various forms of technology, inclusive in the management of the construction process, utilizing survey, computer, and other current equipment applications.
- **Design Theory, Analysis, and Problem Solving Skills** - The student will be able to utilize design theory and analysis applied to problem solving skills and scientific knowledge of the mathematical, physical, and construction sciences to the economic utilization of materials and forces of nature affecting construction practice.
- **Management/Marketing Concepts and Skills** - The student will be able to apply the principles and philosophy of management systems, cost accounting, and economics to the construction industry as well as integrating the Construction Code of Conduct into business practice.
- **Construction Materials and Methods** - The student will be able to understand the science of materials and methods of construction as they apply to the 16 Construction Specifications Institute (CSI) Divisions designated for the construction industry.

- **Estimating, Budgeting, and Cost Control** - The student will be able to perform quantity take-offs, productivity and pricing analysis for estimating, cost accounting, and project control necessary for construction job acquisition and completion.
- **Interpretation of Construction Documents and Legal Issues** - The student will be able to analyze and interpret construction documents, specifications and legal issues; identify appropriate codes, identify site conditions, apply value engineering, and develop detailed project proposals and documentation.
- **Schedule and Control Techniques** - The student will be able to prepare a complete construction project schedule, develop a procurement time table, and establish a project plan showing the logical sequence of activities and time duration in order to monitor progress and update project schedules.
- **Construction Safety** - The student will be able to identify and execute construction safety standards including the ability to interpret the OSHA construction standards, establish safety and health procedures on the job site, and perform hazard material and process analysis.
- **Project Administration** - The student will be able to identify the appropriate construction management principles and processes necessary to complete the site management, evaluate vendors and subcontractors, write field purchase orders, change orders, subcontract agreements, shop drawings, as-built drawings, daily logs/job dairies, construction reports, and progress payment requests.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for the degree, will have met the Construction Management program’s approved upper level writing requirement. See faculty advisor for specific details.

Professional Growth Graduation Requirement

Students will be required to fulfill the professional growth portfolio requirements throughout their sophomore, junior, and senior years. The requirements are outlined in the course syllabus for CM 205 – Professional Growth Seminar, for which students must enroll fall semester of either their sophomore or junior year. The materials assembled by the student over a two-year period for the professional growth portfolio will be evaluated during their last semester at MSUM as part of CM 496 – Capstone Experience. Any student failing to meet the professional growth portfolio requirement will receive an incomplete for CM 496. The student will be expected to satisfactorily complete all portfolio requirements prior to a grade change being recorded.

B.S. DEGREE IN CONSTRUCTION MANAGEMENT (93 Credits)**Requirements (69 Credits)**

All majors must earn three credits from either CM 469 or CM 485.

- ACCT 230 Principles of Accounting I (3)
 ACCT 304 Legal Environment of Business (3)
 CM 216 Construction Graphics (3)
 CM 220 Commercial Building Methods and Materials (3)
 CM 325 Heavy/Highway Construction Materials (3)
 CM 326 Heavy/Highway Construction Materials Lab (1)
 CM 330 Estimating I: Quantity Survey (3)
 CM 340 Planning and Scheduling (3)
 CM 350 Structural Design and Analysis (3)
 CM 354 Mechanical/Electrical Systems (3)
 CM 425 Equipment Productivity and Analysis (3)
 CM 430 Estimating II-Pricing and Productivity (3)
 CM 440 Project Control (3)
 CM 455 Heavy/Highway Estimating and Work Plan Analysis (3)
 CM 460 Project Administration (3)
 CM 465 Construction Safety (2)
 CM 470 Construction Law (3)
 CM 469 Internship (2-12)
OR CM 485 Computer Integrated Construction (3)
 ENG 200 Surveying (3-4)
 ENG 243 Engineering Mechanics I - Statics (3)
OR TECH 223 Statics for Technologists (3)
 MGMT 360 Principles of Management (3)
 TECH 385 Process Leadership (3)
 TECH 394 Computer Applications for Engineers and Technologists (3)

Restricted Electives (3 Credits)

Select three credits from the following courses:

- MGMT 380 Operations Management (3)
 MGMT 405 Small Business Management (3)
 MGMT 420 Organizational Theory (3)
 MGMT 440 Personnel Management (3)
 MGMT 451 Organizational Behavior (3)
 TECH 380 Methods Improvement (3)
 TECH 428 Project Management (3)
 TECH 482 Quality Planning and Implementation (3)

Related Requirements (21 Credits)

In addition to the courses listed below, students must earn four credits from CHEM 150 and 155 or PHYS 161, or GEOL 115 and GEOL 115L.
 CMST 100 Speech Communication (3)
 CSIS 103 Computer Concepts and Applications (3)
 ECON 202 Principles of Economics I: Micro (3)
 MATH 142 Pre-Calculus (4)
 PHYS 160 College Physics I (4)

MINOR IN CONSTRUCTION MANAGEMENT (21 Credits)**Requirements (21 Credits)**

In addition to the listed courses, students must earn at least six credits in Construction Management electives. Students must choose their electives in consultation with their faculty advisor.

- CM 220 Commercial Building Methods and Materials (3)
 CM 330 Estimating I: Quantity Survey (3)
 CM 340 Planning and Scheduling (3)
 CM 460 Project Administration (3)
 ENG 200 Surveying (3-4)

Criminal Justice**Sociology and Criminal Justice Department**

Lommen 102, (218) 477-2045

Chair: Joel Powell-Dahlquist

Program Coordinator: Denis Stead

The Criminal Justice faculty are listed with the Sociology and Criminal Justice Department. Criminal Justice majors examine the criminal justice system and its components within the framework of one or more of the social sciences. The major provides a broad analysis of Criminal Justice participants, of the criminal law, and some of the many ways law is related to the larger society.

LAW ENFORCEMENT LICENSURE

Students who wish Minnesota licensure in law enforcement must take additional classes that address the Licensing Board's objectives. These courses are listed in the introduction to the "Core Requirements" of the major. Students who wish to seek Minnesota licensure in law enforcement must take SOC 311, PSY 261, PSY 463, and CJ 430 and secure First Responder certification.

STUDENT LEARNING OUTCOMES

Students are expected to exhibit an:

- understanding of the content of the discipline of criminal justice;
- ability to apply the concepts of criminal justice to social issues;
- ability to think critically;
- understanding of social research, including the ability to apply research findings to criminal justice issues;
- ability to organize ideas, evidence, information and argument;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning criminal justice issues.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN CRIMINAL JUSTICE**(46 Credits)****Core Requirements (19 Credits)**

The following courses constitute the Core Requirements for the Criminal Justice major. In addition to the Core Requirements, all students must complete (1) a nine credit concentration in Political Science, Psychology, Social Work or Sociology and (2) a related research tool requirement.

CJ 200 Introduction to Criminal Justice (4)
 CJ 300 Criminology (3)
 CJ 309 Law and Society (4)
 CJ 335 Criminal Law (3)
 CJ 337 Criminal Procedure (3)
 CJ 400 Seminar in Criminal Justice (2)

Restricted Electives (12 Credits)

Students must choose at least twelve credits from the following list of courses. Of the twelve credits, at least nine must be taken at the upper division (300 or 400) level.

CJ 390 Topics in Criminal Justice (1-3)
 CJ 497 Readings in Criminal Justice (1-3)
 POL 230 Introduction to the Law (3)
 POL 330 The Judicial System (3)
 POL 332 Constitutional Law I: Institutional Powers and Constraints (3)
 POL 333 Constitutional Law II: Civil Rights and Liberties (3)
 PSY 261 Personality (3)
 PSY 317 Alcoholism and Drug Abuse (3)
 PSY 463 Abnormal Psychology (3)
 SOC 220 Social Deviance (3)
 SOC 303 Punishment and Prisons (3)
 SOC 304 Community Corrections (3)
 SOC 307 Sociology of Courts (3)
 SOC 311 Sociology of Law Enforcement (3)
 SOC 390 Topics in Sociology (1-3)
 SOC 497 Readings in Sociology (1-3)
 SW 402 Child Welfare Services (3)
 SW 411 Chemical Dependency (3)
 SW 490 Topics in Social Work (1-3)

Related Requirements (6 Credits)

At least six credits in research methods courses must be completed to satisfy the requirement. The usual practice is for a student to complete a methodology sequence in the same social science field of concentration chosen to satisfy that requirement within the major.

However, students may satisfy this requirement by completing any of the following two course sequences:

- a) PSY 231-232 (6 cr) – Psychology
- b) SOC 350 - SW 360 (7 cr) – Social Work
- c) MATH 234 - POL 310 (7 cr) – Political Science
- d) SOC 350 - either SOC 351 or SOC 352 (7 cr) – Sociology

Students choosing to complete a second major from a “non-affiliated” discipline are subject to completing one of the above methodology sequences without exception. Transfer students will be allowed to count one or two courses from work completed at other institutions with the joint approval of the student's academic advisor and the Director of the Criminal Justice program.

Internship Recommended (3-12 Credits)

An internship is not required for the major. Internships are important as networking opportunities for those seeking employment. These are usually completed in the Junior or Senior year and may be taken in any academic term. Most students intern during the summer. Internship credits do not apply toward the Criminal Justice major requirement total of 46 credits.

SOCIAL SCIENCE CONCENTRATION IN POLITICAL SCIENCE**Requirements (9 Credits)**

Students must complete the following courses and will also need to complete the courses listed under “Core Requirements”, “Restricted Electives”, and “Related Requirements” for the B.A. Degree in Criminal Justice.

POL 120 American National Government and Politics (3)
 POL 230 Introduction to the Law (3)
 POL 332 Constitutional Law I (3)
OR POL 333 Constitutional Law II (3)

SOCIAL SCIENCE CONCENTRATION IN PSYCHOLOGY**Requirements (9 Credits)**

Students must complete the following courses and will also need to complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” for the B.A. Degree in Criminal Justice.

PSY 113 General Psychology (3)
 PSY 220 Social Behavior (3)
 PSY 261 Personality (3)

SOCIAL SCIENCE CONCENTRATION IN SOCIAL WORK

Requirements (9 Credits)

Students must complete the following courses and will also need to complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Criminal Justice.

SW 250 Introduction to Social Welfare and Social Work (3)

SW 330 Human Behavior in the Social Environment (3)

SW 402 Child Welfare (3)

OR SW 411 Chemical Dependency (3)

SOCIAL SCIENCE CONCENTRATION IN SOCIOLOGY

Requirements (9 Credits)

Students must complete the following courses and will also need to complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Criminal Justice.

SOC 110 Introduction to Sociology (3)

SOC 230 Social Psychology (3)

SOC 302 Social Theory (3)

LAW ENFORCEMENT TRACK

Requirements (15 Credits)

The following courses are required for Peace Officer Standards and Training Board (POST) certification. They are to be completed by law enforcement students before they attend clinical skills training.

CJ 430 Minnesota Criminal Law and Procedure (4)

PSY 261 Personality (3)

PSY 463 Abnormal Psychology (3)

SOC 311 Sociology of Law Enforcement (3)

HLTH 289 First Responder (2)

Early Childhood Education

See Elementary and Early Childhood Education

Earth Sciences

See Anthropology and Earth Science

East Asian Studies

See Languages and Cultures

Economics

Economics Department

Foundation Annex, (218) 477-2842

Chair: Oscar Flores

Faculty: Steven Bolduc, John Cooper, Vern Dobis, Douglas Greenley, Gregory Stutes

The major and minor programs in economics offer students a set of required and elective courses designed to develop students' abilities for analyzing complex choices in a rapidly changing world. The Economics Department offers students two emphases within the major in economics, a traditional liberal arts program and business economics. Both prepare students for careers in banking, private business, education and government.

STUDENT LEARNING OUTCOMES

Students should be able to:

- exhibit knowledge of basic economics.
- communicate effectively in writing and speech.
- possess basic quantitative skills.
- apply analytical skills within the field of economics using theoretical, communication and quantitative tools acquired at the university.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN ECONOMICS (62 Credits)

Requirements (21 Credits)

ECON 202 Principles of Economics I: Micro (3)

ECON 204 Principles of Economics II: Macro (3)

ECON 300 Global Economic Issues (3)

ECON 302 Intermediate Microeconomic Theory (3)

ECON 304 Intermediate Macroeconomic Theory (3)

ECON 370 Quantitative Economic Analysis (3)

ECON 498 Economics Seminar (3)

Related Requirements (26 Credits)

ACCT 230 Principles of Accounting I (3)

CMST 100 Speech Communication (3)

ENGL 387 Technical Report Writing (4)

MATH 229 Fundamentals of Applied Mathematics (3)

MATH 234 Introduction to Probability and Statistics (4)

Electives (15 Credits)

Fifteen additional elective credits in Economics courses are required.

EMPHASIS IN BUSINESS ECONOMICS (74 Credits)

Requirements (27 Credits)

ECON 202 Principles of Economics I: Micro (3)

ECON 204 Principles of Economics II: Macro (3)

ECON 300 Global Economic Issues (3)

ECON 304 Intermediate Macroeconomic Theory (3)
 ECON 320 Money and Banking (3)
 ECON 370 Quantitative Economic Analysis (3)
 ECON 498 Economics Seminar (3)
 ECON 302 Intermediate Microeconomic Theory (3)

OR ECON 430 Managerial Economics (3)
 ECON 315 Government and Business (3)
 OR ECON 415 Industrial Organization and Public Policy (3)

Related Requirements (38 Credits)

In addition to the listed courses, students must also take three elective credits in Mathematics, Computer Science, or Statistics plus six credits in Accounting or Computer Science. Students planning to do graduate work in Economics are encouraged to take additional mathematics courses.

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 ACCT 304 Legal Environment of Business (3)
 CMST 100 Speech Communication (3)
 ENGL 387 Technical Report Writing (4)
 FINC 340 Financial Management (3)
 MATH 229 Fundamentals of Applied Mathematics (3)
 MATH 234 Introduction to Probability and Statistics (4)
 MGMT 360 Principles of Management (3)
 MGMT 370 Management Information Systems (3)
 MKTG 310 Principles of Marketing (3)

Electives (9 Credits)

Students must complete nine elective credits in Economics.

MINOR IN ECONOMICS (21 Credits)

Requirements (12 Credits)

ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 ECON 300 Global Economic Issues (3)
 ECON 302 Intermediate Microeconomic Theory (3)
 OR ECON 304 Intermediate Macroeconomic Theory (3)

Electives (9 Credits)

Nine approved credits in Economics courses.

Elementary and Early Childhood Education

Lommen 214, (218) 477-2216

Program Coordinator: John Benson

Faculty: Solveig Bartz, Chiuchu Melody Chuang, Layna Cole, Karen Danbom, Erin Gillett, Ok-Hee Lee, Ruth Newton, Peggy Rittenhouse, Doris Walker-Dalhouse, Rebecca Williams

Additional information about education policies and degree requirements can be found under *Teacher Education*.

AREAS OF STUDY

Early Childhood Education, Elementary Education, and Graduate Education in Reading. Descriptions of the graduate programs and courses may be requested from the Office of Graduate Studies.

Elementary and Early Childhood Admissions Requirements

To be admitted to the Elementary and Early Childhood Department (EECE), students shall complete the following requirements:

- Admission to Teacher Education (see Teacher Education requirements);
- Completion of 45 semester credits;
- GPA minimum of 2.75 overall and GPA of 2.25 in liberal arts;
- Verification from supervisor of experience with children/adolescents in a teaching/learning setting;
- Demonstrate ability to communicate effectively using written English. Students should consult with the department chair or advisor as there are a variety of ways in which this can be documented.
- SARTE Application Letter
- SARTE Dispositions Self-assessment

Please refer to the SARTE application instructions, under *Teacher Education*, in this **Bulletin** for details.

Completion of the Pre-Professional Skills Test (PPST) is required before students can enroll in 300 and 400 level courses with the education prefix of ED, EECE, or SPED. Passing the PPST is mandatory before students will receive Minnesota Licensure. Students must also pass the appropriate PRAXIS II tests before they may receive Minnesota licensure. Students should consult with the department chair or their advisors about this.

Major in Elementary Education (includes Professional Fourth Year – PFY)

The Elementary and Early Childhood Education Department offers an elementary teacher education preparation program which culminates in the Professional Fourth Year or PFY.

The Professional Fourth Year is a two-semester sequential program integrating theory, methods, practicums, and student teaching. The goal of this program is to give each student the best possible background in teacher preparation and to develop competent beginning elementary teachers. Students have the option of starting Fall or Spring. Students must apply for admission into teacher education and again into the PFY program. Notices to submit application for PFY will be posted in Lommen Hall and announced in classes.

Continued adherence to the EECE admissions requirements, including an overall GPA of 2.75, is mandatory for acceptance into and retention in PFY. A 2.75 GPA is required to enroll in any 300/400 level education course. Only grades of “C” or higher are accepted in the elementary education major course work. Repeating any PFY course requires the approval of the department chair.

Major in Early Childhood Education

The Early Childhood major prepares students to teach in inclusionary programs serving children from infancy to 8 years old. These programs include childcare, Head Start, and Early Childhood Family Education, as well as public school kindergarten and first, second, and third grade classrooms. The Early Childhood major emphasizes collaboration with parents and other professional agencies that serve families with young children. This major qualifies a student to apply for a Minnesota teaching license in Early Childhood Education.

Overall adherence to the EECE admissions requirements, including an overall GPA of 2.75 is expected, and a 2.75 GPA is required to enroll in any 300/400 level education course.

STUDENT LEARNING OUTCOMES

The following performance outcomes are based on the Minnesota State Board of Teaching (BOT) Standards and are aligned with the conceptual framework for the education unit. MSUM teacher candidates are becoming professionals who are knowledgeable, reflective, humanistic and creative who will:

- Demonstrate Knowledge of Content
- Designs an organized, effective, and appropriate lesson
- Uses appropriate informal and/or formal assessment methods to evaluate
- Demonstrates knowledge of human development through appropriate interaction activities and demeanor
- Demonstrates competence in employing appropriate technology
- Expresses ideas articulately in written and oral communication
- Recognizes individual differences and gives opportunities for diverse learners to learn
- Fosters a safe, compassionate and respectful educational environment that promotes learning
- Guides student behavior effectively and appropriately
- Solicits suggestions and feedback from others and is receptive to them
- Analyzes own performance and seeks sources of improvement
- Plans creative lessons and units

- Employs diverse teaching strategies
- Maintains professional conduct as evidenced by punctuality interaction with others, preparedness, and initiative

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. This requirement is met by completing EECE 441.

B.S. DEGREE IN ELEMENTARY EDUCATION (102-118 Credits)

Core Requirements (18 Credits)

All students in Elementary Education must complete this Teacher Licensure core and complete a specialty area in Communication Arts and Literature, Mathematics, Science, Social Studies, World Language and Culture: Spanish, or Pre-Primary Education.

ED 205 Introduction to Education and Technology (2)
 ED 205E Early Field Experience (1)
 ED 294 Educational Psychology (3)
 ED 310 Social Foundations of Education (3)
 EECE 230 Child Development for Teachers (3)
 EECE 291 Foundations of Literacy (3)
 SPED 320 Educational Services for Individuals with Exceptionalities (3)

Requirements (51 Credits)

Students must take at least one credit of EECE 467F and one credit of EECE 367J.

ART 350 Methods and Materials: Art for the Elementary Classroom (3)
 ED 443E Classroom Management/Consultation (3)
 EECE 341 Reading and Language Arts I (3)
 EECE 367J Intermediate Practicum/Elementary Teaching (1-4)
 EECE 388 Classroom Assessment (3)
 EECE 441 Children's Literature: Content and Methods (4)
 EECE 467F Practicum/Elementary Teaching (1-4)
 EECE 474 Methods in Teaching Elementary Science and Environmental Education (3)
 EECE 475 Reading and Language Arts II (3)
 EECE 476 Methods in Teaching Elementary Social Studies (3)
 EECE 481E Student Teaching: Elementary (10)
 HLTH 311 Health in the Elementary School (3)
 MATH 406 Mathematics in the Elementary School (3)
 MUS 319 Music for Classroom Teachers (3)
 SPED 429 Classroom Modifications/Adaptations (2)

Related Requirements (21 Credits)

AMCS 233 Education and Multicultural America (3)
 BIOL 170 Exploring Biology (3)
 CMST 100 Speech Communication (3)
 GEOS 170 Earth Science Today (3)

MATH 303 Foundations of Number Systems (3)
 MATH 304 Informal Geometry (3)
 PSCI 170 Physical Science I (3)

SPECIALTY AREA IN COMMUNICATION ARTS AND LITERATURE (102-103 Credits)

Requirements (12-13 Credits)

The Communication Arts and Literature Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education. Students must choose one course from a literature grouping of ENGL 234, 280, or 286; students must choose one course from a composition grouping of ENGL 286, 288, or 394; and students must choose one course from a language grouping of ENGL 365 or 493.

ENGL 234 Mythology (3)

OR ENGL 280 World Literature: East and West (3)

OR ENGL 372 Survey of American Literature II (4)

AND ENGL 286 Practical Writing (3)

OR ENGL 288 Introduction to Creative Writing (3)

OR ENGL 394 Advanced Composition (3)

AND ENGL 365 Language and Learning (3)

OR ENGL 493 Grammars of English (3)

ENGL 494 Teaching English in Middle/Junior High (3)

Electives (3 Credits)

In addition to the courses listed as “Requirements”, students must take at least one course chosen from literature, composition, or language. ENGL 101 and 102 may not be used to satisfy this elective.

SPECIALTY AREA IN MATHEMATICS (102-104 Credits)

Requirements (15-17 Credits)

The Mathematics Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education. Students must take one course from a choice of MATH 229 or 261, and one course from a choice of MATH 234, 236 or 335. Students who have a strong background in algebra may pursue exemption from MATH 127 by departmental exam. Please check with the Chairperson of the Mathematics department for details.

MATH 105 Contemporary Mathematics (3)

MATH 127 College Algebra (3)

MATH 316 Teaching Mathematics in the Middle Grades (3)

MATH 229 Fundamentals of Applied Mathematics (3)

OR MATH 261 Calculus I (4)

AND MATH 236 Applied Statistics (4)

OR MATH 234 Introduction to Probability and Statistics (4)

OR MATH 335 Intermediate Probability and Statistics I (3)

SPECIALTY AREA IN PRE-PRIMARY EDUCATION (102 Credits)

Requirements (15 Credits)

The Pre-Primary Education Specialty Area is intended for students who seek licensure in Pre-Kindergarten through Grade Six. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education.

EECE 234 Play and Development (3)

EECE 280 Introduction to Early Childhood Education (2)

EECE 333 Discovery Learning (3)

EECE 433 Preschool and Kindergarten Curriculum (3)

EECE 435 Parent-Professional Relations (3)

EECE 467K Practicum: Pre-Primary (1-4)

SPECIALTY AREA IN SCIENCE (104 Credits)

Requirements (17 Credits)

The Science Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under Core Requirements, Requirements, and Related Requirements for the B.S. Degree in Elementary Education. In addition to the courses listed below, students must choose one of the following combination of courses CHEM 110/200L, CHEM 200/200L or PHYS 160/160L.

BIOL 111 Cell Biology (4)

BIOL 111L Biology 111 Lab (0)

BIOL 115 Organismal Biology (4)

BIOL 115L Organismal Biology Laboratory (0)

GEOS 115 Physical Geology (4)

GEOS 115L Physical Geology Lab (0)

BIOL 442 Middle School Science Teaching Methods (1)

OR CHEM 442 Middle School Science Methods (1)

OR PHYS 442 Middle School Science Methods (1)

SPECIALTY AREA IN SOCIAL STUDIES (103-104 Credits)

Requirements (15 Credits)

The Social Studies Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education.

ECON 100 The American Economy (3)

GEOS 111 Cultures and Regions (3)

HIST 121 History of the United States to 1877 (3)

POL 120 American National Government and Politics (3)

HIST 122 History of the United States Since 1877 (3)

OR BIOL 103 Humanity and the Ecosystem (3)

SPECIALTY AREA IN WORLD LANGUAGE AND CULTURE: SPANISH (118 Credits)

Requirements (31 Credits)

The World Language and Culture Specialty Area in Spanish is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education. Students who wish to add this specialty to an Elementary license must complete at least a minor, and preferably a major in Spanish, and demonstrate oral proficiency in the language at the Intermediate High level on the ACTL scale. Students who are interested in this area should consult with the Education Advisor in the Department of Languages and Cultures.

B.S. DEGREE IN EARLY CHILDHOOD EDUCATION (95 Credits)

Core Requirements (18 Credits)

All students in Early Childhood Education must complete this teacher licensure core as well as courses listed under “Requirements” and “Related Requirements.”

ED 205 Introduction to Education and Technology (2)

ED 205E Early Field Experience (1)

ED 294 Educational Psychology (3)

ED 310 Social Foundations of Education (3)

EECE 230 Child Development for Teachers (3)

EECE 291 Foundations of Literacy (3)

SPED 320 Educational Services for Individuals with Exceptionalities (3)

Requirements (62 Credits)

Students must earn one credit in each of the following courses: EECE 367J, 467I, and 467K. Additionally, students must earn at least ten credits in EECE 481C.

ART 350 Methods and Materials: Art for the Elementary Classroom (3)

ED 443E Classroom Management/Consultation (3)

EECE 234 Play and Development (3)

EECE 280 Introduction to Early Childhood Education (2)

EECE 333 Discovery Learning (3)

EECE 341 Reading and Language Arts I (3)

EECE 367J Intermediate Practicum/Elementary Teaching (1-4)

EECE 375 Contemporary Methods in Early Childhood Literacy (2)

EECE 388 Classroom Assessment (3)

EECE 430 Infant/Toddler Programs and Practices (3)

EECE 431 Child Study/ Adaptations for Inclusion (3)

EECE 433 Preschool and Kindergarten Curriculum (3)

EECE 435 Parent-Professional Relations (3)

EECE 441 Children’s Literature: Content and Methods (4)

EECE 467I Practicum: Infant and Toddler (1-4)

EECE 467K Practicum: Pre-Primary (1-4)

EECE 481C Student Teaching: Early Childhood (1-12)

EECE 488 Contemporary Issues and Ethics in Early Childhood Education (2)

HLTH 311 Health in the Elementary School (3)

MUS 319 Music for Classroom Teachers (3)

SPED 423 Young Children with Disabilities and Their Families (3)

Related Requirements (15 Credits)

In addition to the listed courses, students must complete two of the following three courses: BIOL 170, GEOS 170, and PSCI 170.

AMCS 233 Education and Multicultural America (3)

CMST 100 Speech Communication (3)

MATH 303 Foundations of Number Systems (3)

MINOR IN LANGUAGE AND LITERACY (23 Credits)

Requirements (10 Credits)

Students interested in this minor must consult with the EECE Department Chair and declare the minor.

EECE 291 Foundations of Literacy (3)

EECE 341 Reading and Language Arts I (3)

EECE 441 Children’s Literature: Content and Methods (4)

Restricted Electives (8 Credits)

Students must take three of the listed courses.

EECE 425 Improvement of Instruction in Reading and Language Arts (2)

EECE 445 Remedial and Corrective Reading (3)

EECE 448 Reading Study Skills in the Content Areas (3)

EECE 449 Linguistics in Reading (3)

Related Requirements (3 Credits)

ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)

Electives (2-3 Credits)

Students must take at least one course from the following list.

ANTH 110 Introduction to Cultural Anthropology (3)
ANTH 265 Language and Culture (3)
CNSA 420 Basic Counseling Skills (3)
SLHS 101 Introduction to Speech-Language-Hearing Sciences (2)

LICENSURE IN KINDERGARTEN (4 Credits)**Requirements (4 Credits)**

Kindergarten licensure may be added to an elementary education (grades 1-6) license by successfully completing EECE 433 and one credit from EECE 467K. This approach to licensure is only available to students seeking licensure prior to September 1, 2005.

EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 467K Practicum: Pre-Primary (1-4)

CERTIFICATE IN PREPRIMARY EDUCATION (16 Credits)**Requirements (16 Credits)**

EECE 234 Play and Development (3)
EECE 291 Foundations of Literacy (3)
EECE 333 Discovery Learning (3)
EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 435 Parent-Professional Relations (3)
EECE 467K Practicum: Pre-Primary (1-4)

CERTIFICATE IN READING (15 Credits)**Requirements (12 Credits)**

EECE 445 Remedial and Corrective Reading (3)
EECE 448 Reading Study Skills in the Content Areas (3)
ENGL 494 Teaching English in Middle/Junior High (3)
PSY 402 Child/Adolescent Psychology (3)

Restricted Electives (3 Credits)

Students must choose one of the listed courses.

ENGL 365 Language and Learning (3)
OR EECE 449 Linguistics in Reading (3)

CERTIFICATE IN SPECIAL EDUCATION (15 Credits)**Requirements (9 Credits)**

SPED 413 Instructional Strategies (3)
SPED 445 Remedial and Corrective Reading (3)
SPED 471 Behavior and Environment Management (3)

Restricted Electives (6 Credits)

Students must take two of the following disability-specific courses.

SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
SPED 423 Young Children with Disabilities and Their Families (3)
SPED 461 Learning Disabilities (3)
SPED 473 Emotional/Behavioral Disorders (3)

CERTIFICATE IN TEACHING AND LEARNING WITH TECHNOLOGY (16 Credits)
Requirements (16 Credits)

ED 419 Creating Web-Based Curriculum Materials (2)
ED 422 Electronic Resources: Issues and Practice (2)
ED 425 Methods of Computer-mediated Communication in Education (2)
ED 428 Effective Use of Multimedia (2)
ED 433 Technology Troubleshooting for your Computer (2)
ED 434 Assessment Strategies for Technology-Enhanced Curricula (2)
ED 435 Infusing Technology into Mathematics (2)
ED 439 Infusing Technology into Literacy Instruction (2)
ED 442 Infusing Technology into the Science Curriculum (2)

Engineering**Technology Department**

Hagen Hall 211, (218) 477-2104

Chair: Ronald Williams

All engineering students begin their studies with courses that teach fundamental concepts used throughout their careers - chemistry, physics, mathematics, and engineering mechanics. The engineering program at Minnesota State University Moorhead offers students the opportunity to take those courses in an environment dedicated to teaching. Students work closely with their advisor to develop a plan of study that includes those fundamentals plus classes in English, humanities, and the social sciences, before transferring to the engineering school of their choice as a third-year student.

Some students elect to remain at MSUM for a third year, completing their Liberal Studies requirements and taking some third-year engineering courses at North Dakota State University using the Tri-College University. This can be especially advantageous for students participating in Dragon athletics and for students who qualify for Minnesota state grants. These

students are encouraged to work very closely with their academic advisor to be certain that all residency requirements at their transfer school are satisfied.

MSUM has long-standing transfer arrangements with North Dakota State University, the University of Minnesota, and several other regional schools of engineering. Those schools recognize the Tri-College University, which allows MSUM students to take engineering courses at NDSU, and accept those courses for transfer.

MSUM is the only public university in Minnesota to have Dual Degree programs with the University of Minnesota. Students complete the first three years of study in Chemistry or Physics at MSUM. They then transfer to the U of M, and take two years of courses in an engineering program. Upon completion, they earn a B.S. degree in Chemistry or Physics from MSUM, and a Bachelors degree in their field of engineering from the U of M.

The pre-engineering program at MSUM offers an excellent start to an engineering course of study for any student, with smaller classes than may be typical in a school of engineering. It is especially helpful for those students who are unsure of the major or the engineering school they will select. Coursework in their first year helps students explore majors in engineering and in related technology fields, and consider a range of engineering schools for transfer.

CURRICULUM IN PRE-ENGINEERING (60-64 Credits)

Requirements (38 Credits)

CHEM 200 General Chemistry (4)
 ENG 113 Engineering Graphics/CAD (3)
 ENG 130 Introduction to Engineering (2)
 ENG 243 Engineering Mechanics I - Statics (3)
 ENGL 101 Composition and Literature I (3)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 366 Differential Equations (3)
 PHYS 200 General Physics I (4)
 PHYS 201 General Physics II (4)

Electives (22-26 Credits)

Elective credit requirements vary widely, depending on the transfer program selected for degree completion. Students should work closely with their advisor to develop a plan of study for transfer into their specific engineering program. Depending on that plan, elective courses may include:

CHEM 210 General Chemistry II (4)
 CMST 100 Speech Communication (3)
 CSIS 152 Introduction to Computers and Programming I (4)
 ENG 244 Engineering Mechanics II - Dynamics (3)
 ENG 245 Engineering Mechanics III - Materials (3)
 ENGL 387 Technical Report Writing (4)
 MATH 335 Intermediate Probability and Statistics I (3)
 Dragon Core Electives (9-15)

English

English Department

Weld 216, (218) 477-2235

Chair: Sheila Coghill

Faculty: Charles Bense, Kevin Carollo, Alan Davis, John Early, Lin Enger, Laura Fasick, Jill Frederick, Stephen Hamrick, Susan Imbarrato, Gordon Jackson, Gary Litt, Michael McCord, Katherine Meiners, Sandy Pearce, Hazel Retzlaff, Sharon Scapple, Elizabeth Severn, SuEllen Shaw, Thomas Tamaro, Mark Vinz, Richard Zinober.

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, English majors and minors must consult their advisors each semester to plan programs which are both academically acceptable and personally satisfying. Students who wish to set up individualized majors including English courses (for instance, Comparative Literature or language studies) should consult the chair. **Starting Fall 2006, English 200, Introduction to Literary Theory, will be a prerequisite to all core courses.**

The B.A. and B.S. (teaching) programs presently have similar core requirements; but among the other differences, the B.S. program includes coursework prescribed by the Minnesota State Board of Education for a teaching major in English on the secondary level.

Students intending 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.

Only English courses in which a student has earned "C-" or higher will be accepted to fulfill requirements within the major.

All majors will take one designated Capstone seminar, preferably in their senior year, which serves as a culminating course for their academic study in English. Writing majors may use an English 487 or 488 seminar as their Capstone seminar. English Education majors take 491. All students should consult with their advisors for help in selecting an appropriate Capstone course.

Certificate in Publishing English/Mass Communications

The purpose of the Certificate in Publishing is to prepare students to work within the unique framework of the publishing industry, and to design and deliver an educational experience that allows students to learn about acquiring, editing, publishing and promoting new literature. As students at MSUM and as interns associated with New Rivers Press at MSUM, completing the certificate would develop a set of skills that will qualify a student for entry level employment in the publishing industry.

Please consult the department for further information.

STUDENT LEARNING OUTCOMES

BA Students should be able to:

- To perform critical analysis (and/or creative achievement) within the context of literary tradition.
- To develop an awareness of literature as an essential component of civilization, and to be knowledgeable of major authors, works, and traditions of literature.
- To develop reading and writing skills that draw upon and engage with authoritative scholarship and creativity within the discipline.
- To stimulate and reinforce a love of reading and writing that encourages lifelong learning.
- Write interpretative and critical analysis of literary works.
- Find authoritative literary scholarship in the library.
- Find, analyze and synthesize critical issues pertaining to an author or work.
- Use standard documentation procedures following MLA style with projects involving research and writing.
- Discuss literary, and historical issues with peers from a variety of critical or creative perspectives.
- Deliver an oral report reflecting in-depth research into a particular topic or project.

Student learning outcomes for the English Teaching majors (B.S.) are from the National Council for Teaching of English Guidelines.

Students should:

- demonstrate a respect for the worth and contributions of all learners;
- show an understanding of language acquisition and development;
- demonstrate the image of language and visual images on thinking and composing;
- demonstrate how to respond to and interpret what is read in different ways;
- use a wide range of writing strategies to generate meaning and to clarify understanding;
- show knowledge of a broad historical and contemporary spectrum of United States, British, and world literatures;
- recognize the influence of media on culture and on people's actions and communication;
- use major sources of research and theory to understand the relationship between research and practice;
- examine, evaluate, and select resources which support the teaching of English language arts.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN ENGLISH (40 Credits)

Core Requirements (20 Credits)

The core is required of all students who seek the B.A. Degree or the B.S. Degree in English. **Starting Fall 2006, ENGL 200 will be a prerequisite for all core courses.**

- ENGL 211 Major British Writers I (4)
- ENGL 212 Major British Writers II (4)
- ENGL 314 Topics in Shakespeare (3)
- ENGL 314T Shakespeare: Theory (1)
- ENGL 371 Survey of American Literature I (4)
- ENGL 372 Survey of American Literature II (4)

EMPHASIS IN LITERATURE (40 Credits)

Core Requirements (23 Credits)

Students must complete the courses listed as "Core Requirements" under the B.A. Degree in English.

Requirements (4 Credits)

Engl 496 is the capstone course for the literature concentration.

- ENGL 496 Literature Capstone Seminar (4)

Restricted Electives (6 Credits)

One three credit course in literature written before 1800 and one three credit course written after 1800 are required. Both courses must be at the 300 level or above.

Electives (7 Credits)

Students must take seven credits in English elective courses. Of the seven credits, no more than one course may be at the 200 level; one course must be at the 300 or 400 level in British literature, and one course must be at the 300 or 400 level in American literature.

EMPHASIS IN WRITING (40 Credits)**Core Requirements (20 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.A. Degree in English.

Requirements (12 Credits)

Students must take twelve credits in English courses which have a writing emphasis. Select from the following courses:

- ENGL 285 Scriptwriting (4)
- ENGL 286 Practical Writing (3)
- ENGL 288 Introduction to Creative Writing (3)
- ENGL 354 Non Fiction Writing (3)
- ENGL 387 Technical Report Writing (4)
- ENGL 388 Creative Writing (3)
- ENGL 395 Theory and Methods of Tutoring (3)
- ENGL 469 Internship—Writing (1-12)
- ENGL 487 Advanced Technical Report Writing (4)
- ENGL 488 Advanced Creative Writing (1-4)

Restricted Electives (8 Credits)

Students must take a minimum of eight credits in literature electives at the 300 or 400 level.

B.S. DEGREE IN ENGLISH EDUCATION (86 Credits)**Core Requirements (19 Credits)**

- ENGL 211 Major British Writers I (4)
- ENGL 212 Major British Writers II (4)
- ENGL 314 Topics in Shakespeare (3)
- ENGL 371 Survey of American Literature I (4)
- ENGL 372 Survey of American Literature II (4)

Requirements (46 Credits)

ENGL 491 is the capstone course for students in this major. Students must also fulfill all teacher licensure requirements listed below.

- AMCS 233 Education and Multicultural America (3)
- ED 205 Introduction to Education and Technology (2)
- ED 205E Early Field Experience (1)
- ED 294 Educational Psychology (3)
- ED 310 Social Foundations of Education (3)

- ED 461S Student Teaching: Secondary (10)
- ENGL 280 World Literature: East and West (3)
- ENGL 365 Language and Learning (3)
- ENGL 394 Advanced Composition (3)
- ENGL 491 Methods of Teaching English (4)
- ENGL 493 Grammars of English (3)
- ENGL 494 Teaching English in Middle/Junior High (3)
- SPED 320 Educational Services for Individuals with Exceptionalities (3)

Related Requirements (6 Credits)

- CMST 210 Introduction to Communication Theory (3)
- CMST 415 Teaching Methods: Communication Studies (3)

Electives (6 Credits)

Students must earn six credits in English electives. One course must be at the 400 level, and two courses must be at the 300 or 400 level. Select from these recommended courses:

- ENGL 332 Film and the Novel (3)
- ENGL 352 Native American Literature (3)
- ENGL 356 African American Literature (3)
- ENGL 380 World Literature (3)
- ENGL 496 Literature Capstone Seminar (4)

Recommended (0 Credits)

It is recommended that students who seek this degree also take this course.

- ENGL 496 Literature Capstone Seminar (4)

MINOR IN ENGLISH EDUCATION (35 Credits)**Core Requirements (16 Credits)**

Students who seek this minor must earn a teaching major in another discipline.

- ENGL 211 Major British Writers I (4)
- ENGL 212 Major British Writers II (4)
- ENGL 371 Survey of American Literature I (4)
- ENGL 372 Survey of American Literature II (4)

Requirements (19 Credits)

- ENGL 280 World Literature: East and West (3)
- ENGL 365 Language and Learning (3)
- ENGL 394 Advanced Composition (3)
- ENGL 491 Methods of Teaching English (4)
- ENGL 493 Grammars of English (3)
- ENGL 494 Teaching English in Middle/Junior High (3)

B.A. DUAL MAJOR IN ENGLISH AND MASS COMMUNICATIONS (69 Credits)**Core Requirements (16 Credits)**

- ENGL 211 Major British Writers I (4)
- ENGL 212 Major British Writers II (4)
- ENGL 371 Survey of American Literature I (4)
- ENGL 372 Survey of American Literature II (4)

Requirements (21 Credits)

- MC 100 Introduction to Mass Communications (3)
- MC 210 Media Writing (3)
- MC 220 Desktop Publishing (3)
- MC 230 Photography (3)
- MC 309 Reporting (3)
- MC 400 Mass Media Ethics and Issues (3)
- MC 401 Communications Law (3)

Restricted Electives (7 Credits)

Students must choose seven credits in English electives from the following list:

- ENGL 285 Scriptwriting (4)
- ENGL 286 Practical Writing (3)
- ENGL 288 Introduction to Creative Writing (3)
- ENGL 354 Non Fiction Writing (3)
- ENGL 387 Technical Report Writing (4)
- ENGL 388 Creative Writing (3)
- ENGL 395 Theory and Methods of Tutoring (3)
- ENGL 488 Advanced Creative Writing (1-4)

Electives (19 Credits)

Students must choose seven credits of English electives and twelve credits of Mass Communications electives. At least nine credits of the English courses must be at the 300 level or above. One of the courses must be in American literature and one course must be in British literature. The English electives should be chosen in close consultation with an advisor from the English department.

MINOR IN ENGLISH (24 Credits)**Core Requirements (16 Credits)**

- ENGL 211 Major British Writers I (4)
- ENGL 212 Major British Writers II (4)
- ENGL 371 Survey of American Literature I (4)
- ENGL 372 Survey of American Literature II (4)

Electives (8 Credits)

Students must take eight credits in English electives. One course must be at the 300 or 400 level in British literature and one course must be at the 300 or 400 level in American literature.

MINOR IN ENGLISH-WRITING (18 Credits)**Restricted Electives (12 Credits)**

Students must take at least twelve credits chosen from the following courses. A maximum of three credits hours from English 469 is applicable to this minor.

- ENGL 285 Scriptwriting (4)
- ENGL 286 Practical Writing (3)
- ENGL 288 Introduction to Creative Writing (3)
- ENGL 354 Non Fiction Writing (3)
- ENGL 387 Technical Report Writing (4)
- ENGL 388 Creative Writing (3)
- ENGL 395 Theory and Methods of Tutoring (3)
- ENGL 469 Internship—Writing (1-12)
- ENGL 488 Advanced Creative Writing (1-4)

Electives (6 Credits)

Students must take six credits in English elective courses in consultation with Minor advisor. Each student is encouraged to assemble a portfolio of writing samples to present to prospective employers.

English as a Second Language (ESL)

Program Coordinator: Linda Houts-Smith
Lommen Hall 214

LICENSURE IN ENGLISH AS A SECOND LANGUAGE (POST-BACCALAUREATE) (56 Credits)**Requirements (32 Credits)**

Students in this program must hold a baccalaureate degree and have completed a minimum of one year of college-level (or two years of high-school level) foreign language. Students must satisfy the Human Relations component as required by the State of Minnesota.

- ED 460S Student Teaching: Secondary (5)
- EECE 388 Classroom Assessment (3)
- EECE 448 Reading Study Skills in the Content Areas (3)
- EECE 449 Linguistics in Reading (3)
- EECE 480E Student Teaching: Elementary (5)
- ENGL 361 Introduction to Descriptive Linguistics (3)
- ENGL 472 Introduction to Sociolinguistics (3)
- ENGL 478 Foundations of Teaching and Learning English as a Second Language (3)
- ENGL 479 Methods for Teaching ESL and Bilingual Learners (4)

Related Requirements (24 Credits)

- Students are required to complete ED 443E or 443S. This choice should be made in close consultation with their faculty advisor.
- AMCS 233 Education and Multicultural America (3)
 - CMST 100 Speech Communication (3)
 - ED 205 Introduction to Education and Technology (2)
 - ED 205E Early Field Experience (1)
 - ED 294 Educational Psychology (3)
 - ED 310 Social Foundations of Education (3)
 - EECE 291 Foundations of Literacy (3)
 - SPED 320 Educational Services for Individuals with Exceptionalities (3)
 - ED 443E Classroom Management/Consultation (3)
 - OR** ED 443S Classroom Management/Consultation (3)

Recommended (0 Credits)

The following course is highly recommended.
ENGL 493 Grammars of English (3)

Exercise Science

See Physical Education

Film Studies

Communication Studies, Film Studies, and Theatre Arts Department

Roland Dille Center for the Arts 116, (218) 477-2126

Chair: Craig Ellingson

Program Coordinator: Harold “Rusty” Casselton

The Film Studies major is designed for students who wish to work in some aspect of the film industry as well as those who are interested in the academic study of film. Faculty incorporate the traditional format of film and the new technologies of digital video into the curriculum.

Two emphases are available in this major. Film History and Criticism focuses on the study of film history, criticism, and theory as it relates to various genres, directors, novels, and other topical studies. The Film Production emphasis gives students the opportunity to get hands-on experience in screenwriting, cinematography, picture and sound editing, directing, and producing.

The faculty and students of the Communication Studies, Film Studies, and Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully effect their chosen audience. In each of the three areas of the department – Communication Studies, Film Studies, and Theatre Arts – we provide a challenging, contemporary, relevant curriculum within the context of the Liberal Arts that prepares our graduates to become contributing and ethical citizens in a diverse, global community. We promote creativity, critical thinking, and lifelong discovery through courses that integrate theory and history with practice and application.

STUDENT LEARNING OUTCOMES

Students who graduate with a degree from Minnesota State University Moorhead with a major in Film Studies should meet the following objectives:

- Students will utilize three phases (preproduction/production/postproduction) of production preparation in the creation of film and video projects.
- Students will demonstrate knowledge of film history, production aesthetics and theory.

- Students will demonstrate knowledge of basic filmmaking practices and techniques. These include: specialized language use, cinematography principles, lighting and sound elements, editing and directing concepts.
- Students will examine, analyze, and articulate conclusions as to the historical/critical values inherent in film text materials.
- Students will integrate evaluation, theory and production/research skills in the creation of a capstone project for public presentation.

UPPER LEVEL WRITING REQUIREMENT

Majors in Film Studies will meet the upper level writing requirement though FILM 480 – Film Theory and Criticism.

B.A. DEGREE IN FILM STUDIES (51 Credits)

Core Requirements (26 Credits)

CMST 100 Speech Communication (3)

FILM 101A Practicum (1)

OR FILM 101B Practicum (1)

OR FILM 101C Practicum (1)

OR FILM 101D Practicum (1)

FILM 270 Introduction to Telecommunications and Film (3)

FILM 272 Video Production (3)

FILM 280 History of Film (3)

FILM 281 Film Appreciation (3)

FILM 386 Genre Studies (3)

OR FILM 387 Director Studies (3)

OR FILM 388 Topical Studies (3)

FILM 402 Practicum (1)

FILM 480 Film Theory and Criticism (3)

FILM 496 Senior Seminar (3)

EMPHASIS IN FILM HISTORY AND CRITICISM (51 Credits)

Core Requirements (26 Credits)

Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Film Studies.

Requirements (16 Credits)

FILM 302 Practicum (1)

FILM 382 Film and the Novel (3)

FILM 385 International Cinema (3)

FILM 386 Genre Studies (3)

FILM 387 Director Studies (3)

FILM 388 Topical Studies (3)

Electives (9 Credits)

Must include one Film course.

ART 170 Art Appreciation: Content and Form (3)

ART 233 History of Art I: Prehistory through the Middle Ages (4)

ART 234 History of Art II: Renaissance through Modern (4)

CMST 210 Introduction to Communication Theory (3)
 CMST 310 Rhetorical Theory and Criticism (3)
 CMST 410 The Rhetoric of Popular Culture (3)
 ENGL 285 Scriptwriting (4)
 ENGL 350 Literary Criticism and Theory (3)
 FILM 284 Beginning Filmmaking (3)
 FILM 384 Techniques of Film Directing (3)
 FILM 386 Genre Studies (3)
 FILM 387 Director Studies (3)
 FILM 388 Topical Studies (3)
 FILM 390 Topics in Film (1-3)
 FILM 416 Special Projects in Film (1-3)
 FILM 469 Internship (3-12)
 FILM 472 Advanced Video Production (2)
 FILM 490 Topics in Film (1-3)
 MUS 364 Survey of Film Music (3)
 PHIL 320 Philosophy of the Arts (3)
OR ART 320 Philosophy of the Arts (3)
 THTR 230 Principles of Acting (3)
 THTR 235 Principles of Stage Directing (3)
 THTR 255 Technical Theatre Methods (3)
 THTR 322 Drama II (3)
 THTR 355 Scene Design I (3)

EMPHASIS IN FILM PRODUCTION (51 Credits)
Core Requirements (26 Credits)

Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Film Studies.

Requirements (16 Credits)

ENGL 285 Scriptwriting (4)
 FILM 284 Beginning Filmmaking (3)
 FILM 384 Techniques of Film Directing (3)
 FILM 484 Sixteen Millimeter Film Production (3)
 FILM 485 Advanced Film Production (3)

Electives (9 Credits)

Must include one Film course.
 ART 170 Art Appreciation: Content and Form (3)
 ART 233 History of Art I: Prehistory through the Middle Ages (4)
 ART 234 History of Art II: Renaissance through Modern (4)
 ENGL 288 Introduction to Creative Writing (3)
 ENGL 388 Creative Writing (3)
 FILM 382 Film and the Novel (3)
 FILM 385 International Cinema (3)
 FILM 386 Genre Studies (3)
 FILM 387 Director Studies (3)
 FILM 388 Topical Studies (3)
 FILM 390 Topics in Film (1-3)
 FILM 416 Special Projects in Film (1-3)
 FILM 469 Internship (3-12)
 FILM 472 Advanced Video Production (3)
 FILM 490 Topics in Film (1-3)

GCOM 216 3D Modeling (3)
 GCOM 316 Three Dimensional Animation (3)
 GCOM 416 Advanced Three Dimensional Animation (3)
 MC 230 Photography (3)
OR ART 203F Introduction to Photography (4)
 MC 251 Desktop Video (3)
 MUS 363 Music for Film and Multimedia (3)
 MUS 364 Survey of Film Music (3)
 MUS 381 Audio Production I (3)
 MUS 382 Digital Audio I (3)
 PHIL 320 Philosophy of the Arts (3)
OR ART 320 Philosophy of the Arts (3)
 THTR 230 Principles of Acting (3)
 THTR 235 Principles of Stage Directing (3)
 THTR 255 Technical Theatre Methods (3)
 THTR 322 Drama II (3)
 THTR 355 Scene Design I (3)

MINOR IN FILM HISTORY/CRITICISM (21 Credits)

Requirements (15 Credits)

FILM 272 Video Production (3)
 FILM 280 History of Film (3)
 FILM 281 Film Appreciation (3)
 FILM 386 Genre Studies (3)

OR FILM 387 Director Studies (3)
OR FILM 388 Topical Studies (3)
 FILM 480 Film Theory and Criticism (3)

Electives (6 Credits)

Electives may be selected from any Film Studies courses not listed in the “Requirements”

MINOR IN FILM PRODUCTION (21 Credits)
Requirements (15 Credits)

FILM 272 Video Production (3)
 FILM 281 Film Appreciation (3)
 FILM 284 Beginning Filmmaking (3)
 FILM 384 Techniques of Film Directing (3)
 FILM 480 Film Theory and Criticism (3)

Electives (6 Credits)

Electives may be selected from any Film Studies courses not listed in the “Requirements” section.

Finance

See Business

Forestry

Biosciences Department

Hagen Hall 407, (218) 477-2572

Chair: Donna Bruns Stockrahm

MSUM does not offer a degree in forestry, but students can prepare for a career in forestry with two-year pre-forestry followed by transfer to a university which awards a degree in forestry such as the University of Minnesota.

French

See Languages and Cultures

Geoarchaeology

See Geosciences under Anthropology and Earth Science

Geography

See Geosciences under Anthropology and Earth Science

Geology

See Geosciences under Anthropology and Earth Science

Gerontology

Sociology and Criminal Justice Department

Lommen 102, (218) 477-2045

Chair: Joel Powell-Dahlquist

Program Coordinator: Susan Humphers-Ginther

Gerontology is a field of study that integrates several disciplinary perspectives on human aging, including sociology, social work, psychology, and biology. It explores the aging process of individuals and societies, including:

- the study of physical, mental, and social changes;
- the investigation of societal changes resulting from an aging population; and
- the application of this knowledge to policy and program development.

STUDENT LEARNING OUTCOMES

Not approved by date of publication. Consult department for Student Learning Outcomes.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN GERONTOLOGY (48-49 Credits)

Core Requirements (15 Credits)

In addition to the core requirements, students must complete an emphasis in Anthropology, Biology, Economics, Health, Health Services Administration, Political Science, Psychology, Social Work, or Sociology.

NURS 420 Gerontological Nursing (2)

PHIL 311 Morals and Medicine (3)

PSY 403 Adulthood and Aging (3)

SOC 308 Social Gerontology (3)

OR SW 308 Social Gerontology (3)

SW 410 Gerontology: Policy and Practice (4)

OR SOC 410 Gerontology: Policy and Practice (4)

Restricted Electives (6 Credits)

Students must earn at least six credits in research methods chosen from the following courses.

ECON 370 Quantitative Economic Analysis (3)

MATH 234 Introduction to Probability and Statistics (4)

PSY 231 Psychological Statistics and Methodology I (3)

PSY 232 Psychological Statistics and

Methodology II (3)

SOC 350 Methods and Statistics for Social Research (4)

SOC 351 Quantitative Methods (3)

SOC 352 Qualitative Methods (3)

SW 360 Research Methods in Social Work (3)

Electives (15 Credits)

Students must choose fifteen credits from the following courses. Concordia and NDSU offer courses which may also be used as electives in the Gerontology major. Students should consult with a faculty advisor prior to making such substitutions. Complete course lists are available from the

department. Students are encouraged to take an internship related to gerontological issues.

ACCT 230 Principles of Accounting I (3)

ACCT 304 Legal Environment of Business (3)

ACCT 321 Employment Law (3)

ANTH 348 Ideas of Culture (3)

BIOL 236 Introduction to Microbiology (3)

BIOL 323 Human Anatomy (4)

BIOL 349 Human Physiology (4)

ECON 305 The Economics of Poverty,

Discrimination, and Inequality (3)

FINC 340 Financial Management (3)

FINC 360 Principles of Investment (3)

HIST 241 History of Social Welfare (3)

HLTH 305 Introduction to Nutrition (3)
 HLTH 315 Health Agencies and Services (3)
 HLTH 330 Disease Prevention (2)
 MGMT 360 Principles of Management (3)
 MGMT 451 Organizational Behavior (3)
 MKTG 310 Principles of Marketing (3)
 PHIL 311 Morals and Medicine (3)
 POL 221 State and Local Government (3)
 POL 340 Public Administration (3)
 POL 341 Public Policy (3)
 PSY 202 Developmental Psychology (3)
 PSY 265 Health Psychology (3)
 PSY 463 Abnormal Psychology (3)
 SOC 315 Population (3)
 SOC 320 Sociology of the Family (3)
 SOC 375 Sociology of Health and Medicine (3)
 SOC 412 Sociology of Complex Organizations (3)
 SW 411 Chemical Dependency (3)
 SW 460 Social Policy (3)
 SW 490 Topics in Social Work (1-3)

EMPHASIS IN ANTHROPOLOGY (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives” under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Anthropology for the Gerontology degree. Students must complete the listed course, plus nine credits of cultural anthropology electives.

ANTH 110 Introduction to Cultural Anthropology (3)

EMPHASIS IN BIOLOGY (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives” under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Biology for the Gerontology degree. Students must complete twelve credits from the listed courses.

BIOL 104 Human Biology (3)
 BIOL 111 Cell Biology (4)
 BIOL 236 Introduction to Microbiology (3)
 BIOL 323 Human Anatomy (4)
 BIOL 341 Genetics (4)
 BIOL 349 Human Physiology (4)

EMPHASIS IN ECONOMICS (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives” under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Economics for the Gerontology degree.

ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 ECON 302 Intermediate Microeconomic Theory (3)
 ECON 304 Intermediate Macroeconomic Theory (3)

EMPHASIS IN HEALTH (49 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (13 Credits)

This is the emphasis in Health for the Gerontology degree. Students must complete the listed courses plus three credits of health electives.

HLTH 200 Introduction to Health Education and Health Promotion (2)
 HLTH 305 Introduction to Nutrition (3)
 HLTH 315 Health Agencies and Services (3)
 HLTH 330 Disease Prevention (2)

EMPHASIS IN HEALTH SERVICES

ADMINISTRATION (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Health Services Administration for the Gerontology degree.
 HLTH 315 Health Agencies and Services (3)
 HLTH 416 Health Services Management (3)
 HLTH 418 Medical and Health Care Law (3)
 HLTH 419 Financial Management of Health Care Organizations (3)

EMPHASIS IN POLITICAL SCIENCE (48 Credits)

Core Requirements (36 Credit)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Political Science for the Gerontology degree. In addition to the two listed courses, students must complete six elective credits in Political Science.

POL 105 Making Sense of Politics (3)
 POL 120 American National Government and Politics (3)

EMPHASIS IN PSYCHOLOGY (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Psychology for the Gerontology degree.

- PSY 113 General Psychology (3)
- PSY 202 Developmental Psychology (3)
- PSY 261 Personality (3)
- PSY 320 Social Psychology (3)

- OR** PSY 342 Learning and Memory (3)
- OR** PSY 345 Physiological Psychology (3)
- OR** PSY 348 Cognition and Perception (3)
- OR** PSY 463 Abnormal Psychology (3)

EMPHASIS IN SOCIAL WORK (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Social Work for the Gerontology degree.

- SW 250 Introduction to Social Welfare and Social Work (3)
- SW 330 Human Behavior and the Social Environment (3)
- SW 420 Generalist Practice: Individuals (3)
- SW 430 Generalist Practice: Families (3)
- OR** SW 440 Generalist Practice: Groups (3)
- OR** SW 450 Generalist Practice: Communities and Organizations (3)

EMPHASIS IN SOCIOLOGY (48 Credits)

Core Requirements (36 Credits)

Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)

This is the emphasis in Sociology for the Gerontology degree.

- SOC 110 Introduction to Sociology (3)
- SOC 230 Social Psychology (3)
- SOC 302 Social Theory (3)
- SOC 310 Dominant-Subordinate Group Relations (3)

MINOR IN GERONTOLOGY (21 Credits)

Requirements (12 Credits)

Courses at Concordia or NDSU may be taken through the Tri-College University and substituted for SOC 308 and PSY 403. Please consult with an advisor

- prior to attempting such substitution.
- NURS 420 Gerontological Nursing (2)
- PHIL 311 Morals and Medicine (3)
- SOC 308 Social Gerontology (3)
- PSY 403 Adulthood and Aging (3)
- SOC 410 Gerontology: Policy and Practice (4)

Electives (9 Credits)

Students must take nine elective credits. Courses may be selected from those listed. Concordia and NDSU offer courses which may also be used as electives in the Gerontology minor. Students should consult with a faculty advisor prior to making such substitutions. Complete course lists are available from the department.

- BIOL 104 Human Biology (3)
- PHIL 311 Morals and Medicine (3)
- SOC 375 Sociology of Health and Medicine (3)
- PSY 317 Alcoholism and Drug Abuse (3)
- OR** SW 411 Chemical Dependency (3)

Geosciences

See Anthropology and Earth Science

Graphic Communications

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Ronald Williams

Program Coordinator: Mike Ruth

The Graphic Communications degree is designed to prepare individuals for entry-level positions in the graphic communications industry. It is a two-track program, with options in either *digital design and production* or *multimedia development*.

The **Digital Design and Production** option concentrates on the design and production of materials for mass consumption. These could be pieces for multimedia, technical illustration, print, film/video, or television. The **Multimedia Development Option** concentrates on preparing the individual for a role as a multimedia and/or web designer, or as a computer animator. Both options heavily emphasize the use of computer technology as the key tool for the graphic communicator. Macintosh and PC computer platforms are taught, with the focus being on the Macintosh platform, as it is the primary computer utilized in the graphics industry.

The Graphic Communications program provides students with learning experiences that will assist them in becoming competent graphic communicators. The program is designed to expose the students to many real life situations that they will face in the workplace. It also strives to produce students who are accomplished with many of the new technologies used in today's graphics industry. The program is multidisciplinary, with students enrolling in courses in Art, Music, Mass Communications, and Computer Science.

Graduates of this program are skilled in many of the areas of the graphics industry. This background provides them experiences in computer graphics, multimedia, photography, printing, advertising, graphic design, presentation graphics, television, CAD, and computer animation.

STUDENT LEARNING OUTCOMES

The program of study is designed to prepare a professional graphic communicator who possesses skills and knowledge acquired through education and hands-on experience necessary to secure entry-level employment in one of the following areas: graphic and digital design, multimedia authoring and development, web authoring and development, and computer animation.

- **Communication Skills:** The student will be able to apply oral, written, graphic and effective listening skills.
- **Technical Skills:** The student will be able to implement various forms of manual and computer technology inclusive in the development and production of the visual image. This includes the many industry standard hardware and software applications used by the graphic communications industry.
- **Graphic Communications Methods:** The student will be able to apply the methods of the graphic communications industry as described by the American Institute of Graphic Arts (AIGA), Printing Industries of America (PIA), and Graphic Communications Association (GCA).
- **Estimating:** The student will be able to understand the sequence of estimating work. This includes the design and implementation of a company, the establishing of BHR's, equipment selection, workspace design, and job estimation.
- **Project Administration:** The student will be able to initiate a design project, formulate and communicate the purpose and scope of their project, work independently to complete all aspects of the project within the assigned timeframe, and present and interpret their work to industry practitioners.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN GRAPHIC COMMUNICATIONS (66-70 Credits)

Core Requirements (31 Credits)

This core is required of all students majoring in one of the Graphic Communications options: Digital Design and Production or Multimedia Development.

GCOM 150 Survey of Graphic Communications Industry (1)

GCOM 152 Design for Graphic Communications I (3)

GCOM 216 3D Modeling (3)

GCOM 255 Beginning Computer Graphics (3)

GCOM 259 Graphic Communications Technologies (2)

GCOM 266 Introduction to Multimedia (3)

GCOM 355 Intermediate Computer Graphics (3)

GCOM 452 Graphic Communications Management (3)

GCOM 459A Graphic Communications Final

Project A (2)

GCOM 459B Graphic Communications Final

Project B (2)

MC 230 Photography (3)

TECH 113 Engineering Graphics/CAD (3)

Related Requirements (12 Credits)

These related requirements are required of all students who major one of the Graphic Communications options: Digital Design and Production or Multimedia Development.

ECON 100 The American Economy (3)

MATH 127 College Algebra (3)

PSY 113 General Psychology (3)

OR SOC 110 Introduction to Sociology (3)

CMST 100 Speech Communication (3)

OR THTR 230 Principles of Acting (3)

OPTION IN MULTIMEDIA DEVELOPMENT (66-68 Credits)

Core Requirements (43 Credits)

Students must complete the courses listed as "Core Requirements" and "Related Requirements" under the B.S. Degree in Graphic Communications.

Requirements (12 Credits)

GCOM 316 Three Dimensional Animation (3)

GCOM 366 Web Authoring with Dreamweaver (3)

GCOM 368 Multimedia Authoring with Flash (3)

FILM 272 Video Production (3)

OR MC 251 Desktop Video (3)

Restricted Electives (11-13 Credits)

Students must take one course from (GCOM 416, 466); one course from (CSIS 130, 150); one course from (MUS 381, 382); and one course from (MUS 363, 364).

GCOM 416 Advanced Three Dimensional

Animation (3)

OR GCOM 466 Advanced Multimedia/Web

Authoring and Development (3)

AND CSIS 130 Introduction to Visual

Programming (3)

OR CSIS 152 Introduction to Computers and Programming I (4)

AND MUS 363 Music for Film and Multimedia (3)

OR MUS 364 Survey of Film Music (3)

AND MUS 381 Audio Production I (3)

OR MUS 382 Digital Audio I (3)

OPTION IN DIGITAL DESIGN AND PRODUCTION (70 Credits)

Core Requirements (43 Credits)

Students must complete the courses listed as “Core Requirements” and “Related Requirements” under the B.S. Degree in Graphic Communications.

Requirements (12 Credits)

GCOM 252 Design for Graphic Communications II (3)

GCOM 455 Advanced Computer Graphics (3)

GCOM 457 Digital Prepress (3)

GCOM 458 Digital Production (3)

Electives (15 Credits)

Elective credits must be chosen from one or more departments that have courses which relate to the Graphic Communications industry. Elective courses must be approved by the faculty advisor prior to enrollment. Students must meet any prerequisite requirements for their elective choices.

Graphic Design

See Art and Design

Health

Health and Physical Education Department

Nemzek 106, (218) 477-2445

Chair: Wendy Frappier

Faculty: Nancy Christensen, James Gemar, Barry Halm, Dawn Hammerschmidt, Chris Huot, Merle Johnson, Ralph Micheli, Randall Smith

MSUM’s Health and Physical Education (HPE) Department offers programs for students who are interested in administrative positions in health care delivery, community health promotion, teaching health or physical education in schools, exercise science, athletic training or coaching.

Requirements for Physical Education degrees are listed under *Physical Education*, requirements for Athletic Training degrees are listed under *Athletic Training*, and requirements for Health Services Administration degrees are listed under *Health Services Administration* in this *Bulletin*.

Bachelor of Science in Community Health

This Bachelor of Science Degree requires completion of 120 credits. Community-based Health Education Specialists work for local, state, and federal government agencies as well as voluntary and private health organizations. In addition, many large corporations employ individuals who develop, conduct, and evaluate programs concerned with the health and welfare of employees. The educational program at MSUM prepares students to become a Certified Health Education Specialist (CHES).

Bachelor of Science in Health Education: Teaching

School health educators are licensed to teach health education in the public or private schools at 5-12 level. Students obtaining a health education teaching degree are also eligible for positions in the community setting. Graduates who wish to teach health education at the post-secondary level must have a Masters degree, or preferably, a Doctorate in health education.

STUDENT LEARNING OUTCOMES:

As recommended by the National Commission for Health Education Credentialing, the student should be able to:

- assess individual and community needs for health education;
- plan effective health education programs;
- implement health education programs;
- evaluate effectiveness of health education programs;
- coordinate provision of health education services;
- act as a resource person in health education;
- communicate health education needs, concerns and resources.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN COMMUNITY HEALTH**(62 Credits)****Requirements (39 Credits)**

Students must earn at least seven credits of internship in HLTH 469. Exceptions to this requirement will need to be approved by the department chairperson.

HLTH 110 Personal Health and Wellness (3)

HLTH 125 First Aid and CPR (2)

HLTH 200 Introduction to Health Education and Health Promotion (2)

HLTH 305 Introduction to Nutrition (3)

HLTH 315 Health Agencies and Services (3)

HLTH 326 Epidemiology (3)

HLTH 327 Safety Education and Consumer Protection (3)

HLTH 330 Disease Prevention (2)

HLTH 340 Health Methods and Materials (3)

HLTH 412 Education for Sexuality and HIV/AIDS (3)

HLTH 415 Design and Evaluation of Community Health Programs (3)

HLTH 465 Comprehensive School Health Programs (2)

HLTH 469 Internship (2-12)

Restricted Electives (17 Credits)

Selection of courses from the following areas must be approved by the student's advisor and will depend on the student's occupational goal and prior experience. All students must earn at least nine credits from social and natural science courses and eight credits from communication skills courses. Substitutions to this group of courses may be made with the permission of the student's advisor.

ANTH 110 Introduction to Cultural Anthropology (3)

ANTH 302 Cultural Aspects of Aging (3)

BIOL 104 Human Biology (3)

BIOL 236 Introduction to Microbiology (3)

CHEM 102 Survey of Basic Principles of Chemistry (3)

CHEM 110 Fundamentals of Chemistry (4)

CHEM 180 Introduction to Organic and Biochemistry (4)

CHEM 185 Introduction to Organic and Biochemistry Lab (1)

CMST 100 Speech Communication (3)

ENGL 387 Technical Report Writing (4)

HLTH 326 Epidemiology (3)

MC 220 Desktop Publishing (3)

PSY 113 General Psychology (3)

PSY 220 Social Behavior (3)

PSY 265 Health Psychology (3)

SOC 110 Introduction to Sociology (3)

SOC 220 Social Deviance (3)

SOC 308 Social Gerontology (3)

SOC 375 Sociology of Health and Medicine (3)

SW 499 Grant Writing (4)

Related Requirements (9 Credits)

BIOL 103 Humanity and the Ecosystem (3)

CSIS 103 Computer Concepts and Applications (3)

PE 321 Human Physiology (3)

EMPHASIS IN DENTAL OR ALLIED HEALTH**(62 Credits)****Core Requirements (32 Credits)**

Students must complete the courses listed under the "Core Requirements" and "Related Requirements" for the B.S. Degree in Community Health.

Requirements (30 Credits)

Students in this emphasis will transfer in 20 credits from the Dental Hygiene program or 20 credits from the Radiologic Technology program from MSCTC, and complete a ten credit internship. Please check with the program advisor.

HLTH 469 Internship (10)

MINOR IN COMMUNITY HEALTH (21 Credits)**Requirements (21 Credits)**

HLTH 110 Personal Health and Wellness (3)

HLTH 125 First Aid and CPR (2)

HLTH 200 Introduction to Health Education and Health Promotion (2)

HLTH 305 Introduction to Nutrition (3)

HLTH 315 Health Agencies and Services (3)

HLTH 327 Safety Education and Consumer Protection (3)

HLTH 330 Disease Prevention (2)

HLTH 412 Education for Sexuality and HIV/AIDS (3)

B.S. DEGREE IN HEALTH EDUCATION**(74 Credits)****Requirements (29 Credits)**

Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.

HLTH 110 Personal Health and Wellness (3)

HLTH 125 First Aid and CPR (2)

HLTH 200 Introduction to Health Education and Health Promotion (2)

HLTH 305 Introduction to Nutrition (3)

HLTH 315 Health Agencies and Services (3)

HLTH 327 Safety Education and Consumer Protection (3)

HLTH 330 Disease Prevention (2)

HLTH 335 Health Education and the Middle Level Adolescent (3)

HLTH 340 Health Methods and Materials (3)

HLTH 412 Education for Sexuality and HIV/AIDS (3)

HLTH 465 Comprehensive School Health Programs (2)

Related Requirements (12 Credits)

Courses in the following areas: Biology, Physical Education, Psychology, and Sociology (Suggested courses are listed).

- BIOL 103 Humanity and the Ecosystem (3)
- PE 321 Human Physiology (3)
- PSY 113 General Psychology (3)
- SOC 110 Introduction to Sociology (3)

**MINOR IN HEALTH EDUCATION (27 Credits)
Requirements (27 Credits)**

Students who select this minor must also earn a teaching major in another discipline.

- HLTH 110 Personal Health and Wellness (3)
- HLTH 125 First Aid and CPR (2)
- HLTH 305 Introduction to Nutrition (3)
- HLTH 327 Safety Education and Consumer Protection (3)
- HLTH 330 Disease Prevention (2)
- HLTH 335 Health Education and the Middle Level Adolescent (3)
- HLTH 340 Health Methods and Materials (3)
- HLTH 412 Education for Sexuality and HIV/AIDS (3)
- HLTH 465 Comprehensive School Health Programs (2)
- PE 321 Human Physiology (3)

Health Science Professions

**Biosciences Department and Chemistry
Department**

Contact Faculty: Donna Bruns Stockrahn, Biosciences, Hagen Hall 407, (218) 477-2572 or Gary Edvenson, Chemistry, Hagen Hall 407, (218) 477-2136

MSUM offers pre-professional programs in the following health science areas: Chiropractic, Dentistry, Medicine, Mortuary Science, Nursing, Occupational Therapy, Optometry, Physical Therapy, Physician's Assistant, Respiratory Care, and Veterinary Science. In addition, there are majors in Medical Technology, Nursing, Biology with a Health and Medical Sciences Emphasis, and Chemistry with a Biological Chemistry Emphasis. Most students in the health science pre-professional areas major in Biology or Chemistry but other majors are possible as long as the requirements for the pre-professional program are met.

Students should plan their program and application for professional school with the assistance of an advisor for both their pre-professional program and their chosen major to insure that the requirements for both the pre-professional and the academic major are

met. The requirements for many of the pre-professional health science programs are similar and this offers students maximum flexibility for career decisions.

Basic prerequisites for the health science pre-professional programs usually include: one year of biology, one to two years of chemistry, two or more mathematics courses, and one year of physics. Additional coursework in mathematics and science as well as Liberal Studies electives are often recommended. Since professional schools often vary in their requirements, students should contact the schools of interest early in their program and work closely with their advisor to insure that all requirements are met.

Health Services Administration

**Health and Physical Education Department
Nemzek 106, (218) 477-2445**

Chair: Wendy Frappier

Program Coordinator: Barry Halm

Health services administration, as a profession, is expanding dramatically and offers a variety of career opportunities for those interested in serving their community. Where initially education was oriented primarily toward hospital administration, at the graduate level, the growth and complexity of health care now provides individuals with undergraduate degrees in health services administration diverse opportunities. Program graduates have found employment in hospitals, long-term care organizations, clinics, health associations, voluntary health agencies, public health and health care insurance. Although compensation is generally good, the most rewarding aspect of a career in health services administration is the challenge of working with other health professionals in serving others and in providing the quality health care we all deserve.

Bachelor of Science in Health Services Administration

Health care administrators are employed in nursing homes, assisted living facilities, hospitals, clinics, insurance companies, health departments, health associations and voluntary health care agencies. Students may also elect to pursue a major in Health Services Administration with an Emphasis in Long term Care Administration. By electing this emphasis, students present a special interest and preparation in the expanding field of elderly care. This Emphasis requires special coursework in addition to the requirements for a major in Health Services Administration.

Emphasis in Long Term Care Administration (11 credits)

With the growth of the population above age 65, career opportunities are expanding in the organizations offering services to the elderly. Many organizations offer a range of services that meet the diverse needs of seniors including skilled nursing care, assisted care and independent living. Opportunities are also expanding in community agencies providing services and programs to seniors living in their own homes. Home Care organizations and Senior Centers are examples of these organizations which also require individuals with an understanding of the unique needs of the elderly. ALL MAJORS in Health Services Administration are encouraged to consider this Emphasis in Long term Care Administration.

Federal law requires that any individual responsible for the administration of an organization with nursing home beds be licensed as a nursing home administrator. To become licensed also requires meeting the standards of the state in which the individual will practice and passing a national examination. Each state establishes its own standards. Some states require an additional state examination.

In Minnesota, standards have been developed by the Board of Examiners for Nursing Home Administrators (BENHA). These standards are among the highest in the nation and include requirements only available through a college or university. The MSUM major in Health Services Administration with an emphasis in Long Term Care Administration has been approved by BENHA as a program that satisfies requirements to become licensed as a nursing home Administrator in Minnesota. Applicants for a license in Minnesota with this emphasis are still required to take a state and national examination.

STUDENT LEARNING OUTCOMES

Not approved by date of publication. Consult department for Student Learning Outcomes.

UPPER LEVEL WRITING REQUIREMENT

Majors in Health Services Administration will meet the upper level writing requirement through Health 418 – Medical and Health Care Law.

B.S. DEGREE IN HEALTH SERVICES ADMINISTRATION (66 Credits)

Requirements (32 Credits)

Students must earn twelve credits in HLTH 469.
 HLTH 326 Public Health and Epidemiology (3)
 HLTH 330 Disease Prevention (2)
 HLTH 414 Health Services Planning and Evaluation (3)

HLTH 416 Health Services Management (3)
 HLTH 418 Medical and Health Care Law (3)
 HLTH 419 Financial Management of Health Care Organizations (3)
 HLTH 420 Health Policy and Payment (3)
 HLTH 469 Internship (12)

Related Requirements (34 Credits)

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 CSIS 103 Computer Concepts and Applications (3)
 ECON 202 Principles of Economics I: Micro (3)
 MATH 234 Intro to Probability and Statistics (4)
 MGMT 360 Principles of Management (3)
 MGMT 370 Management Information Systems (3)
 MGMT 420 Organizational Theory (3)
 MGMT 440 Personnel Management (3)
 MKTG 310 Principles of Marketing (3)
 PE 321 Human Physiology (3)

EMPHASIS IN LONG TERM CARE ADMINISTRATION (11 Credits)

Requirements (17-27 Credits)

Complete the requirements for a major in Health Services Administration with no substitutions in the following major requirements:

HLTH 416 Health Services Management (3)
 HLTH 418 Medical and Health Care Law (3)
 HLTH 419 Financial Management of Health Care Organizations (3)
 HLTH 469 Internship (2-12)
 MGMT 370 Management Information Systems (3)
 MGMT 440 Personnel Management (3)

Electives (11 Credits)

HLTH 421 Long Term Care Administration (3)
 NURS 420 Gerontological Nursing (2)
 PARA 416 Elder Law (3)
 SOC 308 Social Gerontology (3)
 OR SW 308 Social Gerontology (3)

MINOR IN HEALTH SERVICES ADMINISTRATION

Requirements (21 Credits)

ACCT 230 Principles of Accounting I (3)
 HLTH 414 Health Services Planning and Evaluation (3)
 HLTH 416 Health Services Management (3)
 HLTH 418 Medical and Health Care Law (3)
 HLTH 419 Financial Management of Health Care Organizations (3)
 MGMT 360 Principles of Management (3)
 MGMT 440 Personnel Management (3)

History

History Department

Dragon Den, (218) 477-2812

Chair: Steve Hoffbeck

Faculty: Henry Chan, Paul Harris, Sarah Hentges, Annette K. Morrow, Margaret Sankey, I. Kenneth Smemo, Sean Taylor

The History Department offers courses in U.S., European, and world history to meet the varied needs and interests of our students. History courses can be applied to fulfill Liberal Studies requirements in both Division C (Social and Behavioral Sciences) and Division F (Global and Multicultural Studies) and in DC6 of the Dragon Core. Upper-division courses in History also prepare students for careers as teachers or in such diverse areas as law, government, libraries, museums, and business. The study of history at MSUM involves much more than the memorization of names and dates. Our students learn to think analytically and critically about the past and to understand history as the experiences of real human beings.

STUDENT LEARNING OUTCOMES

Students completing programs in History and Social Studies should be able to demonstrate the ability to do the following:

Reading Comprehension and Cognitive Skills

- identify the main point or thesis in a piece of historical writing;
- analyze how authors develop their theses and support them with evidence;
- recognize and evaluate differences in historical interpretation among different authors.

Historical Thinking Skills

- recognize potential sources of bias in historical writings;
- understand and interpret events in their appropriate historic context;
- understand and interpret relations of cause and effect and other sequential relations;
- understand the complexity of human motivations and appreciate cultural differences in patterns of behavior and ideation;
- synthesize a variety of evidence into a coherent and plausible account of events.

Research Skills

- recognize the difference between primary and secondary sources, and understand the uses and importance of each type;
- select and refine an appropriate topic for a given assignment;

- identify a variety of different kinds of source materials that could shed light on a particular topic;
- use the library and various bibliographic aids to identify and locate different sources relevant to a particular topic;
- evaluate which of their sources are the most authoritative;
- compile and annotate a bibliography, and present it in proper format;
- conduct an oral history interview.

Written Communication Skills

- formulate a thesis on the basis of insights gained from research;
- develop their thesis in an organized and logical progression;
- use appropriate evidence to support points;
- cite their sources properly;
- summarize points made in source materials, and make the connections between different points of view and their own;
- recognize the shortcomings of their evidence and anticipate possible objections;
- respond constructively to criticism and make appropriate revisions;
- write clear and grammatical prose;
- critically evaluate the work of other students.

Oral Communication Skills

- respond clearly and thoughtfully to questions and comments in class discussion;
- draw upon and summarize reading materials in ways that address larger themes and issues;
- deliver an effective oral presentation;
- critically evaluate the work of other students.

Computer Literacy

- produce a paper using word processing software;
- use e-mail;
- conduct research using the World Wide Web in addition to traditional sources.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN HISTORY (46 Credits) *Requirements (12-13 Credits)*

Students must earn at least three credits in Senior Seminar.

HIST 104 World History I (3)

HIST 105 World History II (3)

HIST 121 History of the United States to 1877 (3)

HIST 122 History of the United States Since 1877 (3)

HIST 401 Senior Seminar (3-4)

Restricted Electives (18 Credits)

Students must complete at least six credits at the 300 level or above in European history and at least six credits at the 300 level or above in United States or Canadian history. In addition, students must earn at least six credits at the 300 level or above from one or more of the following areas: Africa, Asia, Latin America, and the modern Middle East.

Related Requirements (8 Credits)

Students must take one year of a foreign language or demonstrate equivalent competency.

Electives (5 Credits)

Students must earn at least 40 credits in courses with the History rubric. The elective total of 5 credits in History may vary, depending on the credit value of the History courses which students present for graduation.

MINOR IN HISTORY (21 Credits)

Requirements (12 Credits)

- HIST 104 World History I (3)
- HIST 105 World History II (3)
- HIST 121 History of the United States to 1877 (3)
- HIST 122 History of the United States Since 1877 (3)

Restricted Electives (9 Credits)

Students must take three credits of electives which are at the 300 level or above in Africa, Asia, Latin America, or the modern Middle East. In addition, students must take six credits in elective study at the 300 level or above in courses in United States history, Canadian history and European history.

Honors Program

Weld 230, (218) 477-4686

Program Coordinator: Stephen Hamrick

The Honors Program exists to reward and encourage superior academic achievement. The Program consists of a special curriculum of courses that are broadly conceived and interdisciplinary in focus. Collectively, these courses are intended to promote a community of learning, in which students learn from one another as well as from professors, and to encourage an appreciation of ideas that emphasizes their broader connections and complexities, as opposed to specialized knowledge and research techniques. As such, the Honors curriculum is devoted to the essential purpose of the Liberal Arts and, indeed, of the university itself: to examine, assess, and celebrate the artistic, intellectual, literary and other expressions of our shared humanity.

Students in the Honors Program are drawn from virtually all majors and perspectives represented on campus. Participation in the Program thus provides an opportunity to interact with other high achieving students of varied backgrounds and viewpoints. Honors classes are relatively small to encourage discussion, and they typically offer opportunities for students to refine their skills in oral and written presentation. In all cases, Honors classes offer exposure to an eclectic range of works and ideas, and they do not require a specific background or major concentration. Emphasis is placed not upon mastery of specialized materials but upon the broader search for understanding and the excitement of thinking and learning.

Students with a 3.5 GPA or better are invited into the program either at the end of their freshman year or at the beginning of their sophomore year, although a later entry is sometimes possible. Transfer students who are interested in participating in the Honors Program should contact the Program Director. Honors course work usually begins in the sophomore year. Those who complete the Honors Program will have their achievement noted on their transcript. Upper level Honors classes carry Liberal Studies credit.

HONORS PROGRAM (13 Credits)

Core Requirements (4 Credits)

- HON 200 Honors Colloquium (4)

Restricted Electives (9 Credits)

- Students must take at least three courses from those listed.
- HON 300 American Society (4)
 - HON 301 Masterpieces of Literature (4)
 - HON 303 Nature of Physical Reality (3)
 - HON 305 Good and Evil in Literature (4)
 - HON 306 Human Nature in the Western Tradition (3)
 - HON 307 Transformation of the Roman World:
31 B.C. to A.D. 312 (4)
 - HON 308 Aesthetics of Music (3)
 - HON 312 Journeys in Literature: Classical and
Medieval Masterpieces (3)
 - HON 315 Science and Time (3)
 - HON 318 Issues of the Nuclear Age (3)

Humanities

See Philosophy

Individualized Major

See Academic Programs section of this Bulletin

Industrial Technology

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Ronald Williams

Program Coordinator: Wade Swenson

MSUM's Industrial Technology degree with its two options was the first specialized accredited technical management B.S. degree program in Minnesota. The National Association of Industrial Technology (NAIT) accredits both IT options: **Industrial Distribution—ID** and **Industrial Management—IM**. The **Industrial Technology** B.S. degree is designed to prepare students to be successful in a technical management setting.

The Technology Department mission is to provide nationally accredited programs from which students graduate to become leaders capable of handling the complexities and challenges of an industrially-oriented business environment. The Industrial Technology B.S. degree seeks to develop graduates who recognize the importance of the business-technology interface in a world increasingly dominated by technology. The faculty members endeavor to develop in these future leaders a thorough understanding of the supplier-manufacturer-distributor infrastructure that forms the backbone of the current world business model.

Career paths available to Industrial Technology graduates

- **Operations Managers:** Oversee a facility's workforce, materials, and equipment to meet production and shipping schedules, while maintaining product quality, plant efficiency, customer service needs, and a favorable working environment.
- **Materials Managers:** Plan and control distribution, from the acquisition of raw materials to the delivery of finished products.
- **Technical Sales & Marketing:** Sell products and provide specialized knowledge and advice to customers.
- **Quality Assurance Specialists:** Coordinate the overall design and maintenance of activities related to quality issues.
- **Branch & Corporate Management:** Use talent for planning, integrating diverse activities, managing money, and working with people in a business environment.
- **Design Positions:** Work on design teams in varied departments from engineering, to manufacturing, to facilities depending on abilities and interests.

- **Other paths include:** Production Management, Supply Chain Management, Purchasing, and Logistics.

Industrial Distribution—ID option

Industrial Distribution graduates are the "behind the scenes" specialists in wholesale distribution and logistics focusing on understanding of the processes, which integrates procurement, production, distribution, and customer relations into a system for creating value for the end user. Industrial Distribution graduates look at the movement of materials from the procurement stage as raw materials or components through the manufacturing - processing stage to the marketing and distribution of end products for industrial or commercial users. The technical nature of much of this activity, together with the profit incentive that drives it, requires an instructional approach that combines business and technology courses. The types of positions available to the ID graduate range from the manufacturing/construction sector to food products, pharmaceuticals, soft goods, and computer firms. The placement rate of Industrial Distribution graduates approaches 100%.

Industrial Management—IM option

The industrial manager fills the gap between the people and the technology. Industrial managers and supervisors require three types of skills: people skills, analytical or problem solving skills, and, because of the close interaction with technology and technical workers, they must possess a technological knowledge base. Students selecting the Industrial Management option will equip themselves to be managers in the challenging environment of modern manufacturing. However, employment opportunities exist in many environments. Upon graduation they will be prepared to address critical contemporary issues related to productivity management in a variety of business settings. The IM graduate is employed in leadership roles designing and implementing management programs. The IM graduate develops microcomputer and software applications knowledge that gives them a competitive edge in the job market. The placement rate of Industrial Management graduates approaches 100%.

Industrial Management Minor

For students in business, accounting, or a related area, the selection of the Industrial Technology minor will provide a valuable asset in seeking management positions in a technical environment.

STUDENT LEARNING OUTCOMES

The Industrial Technology program at MSUM is accredited by the National Association for Industrial Technology (NAIT). The outcomes for the program must at a minimum address the competencies necessary to maintain that accreditation. The Technology Department faculty meet regularly with an industrial Advisory Board to update a list of outcomes that will prepare an Industrial Technologist who possesses skills and knowledge acquired through education and on-site experience.

- **Communication Skills:** The student will be able to apply oral, written, graphic, and listening skills, be able to facilitate teams efforts, and apply knowledge of visualization and CAD.
- **Information Technology Skills:** The student will be able to demonstrate computer skills appropriate for the industry, through use of word processing, databases, and spreadsheets applications, electronic data searches, and computer applications for business and industry.
- **Scientific and Technical Skills:** The student will be able to apply mathematical, and physical principals to business and industrial applications, and implement efficient scientific and technological solutions to industrial problems.
- **Manufacturing Processes and Technologies:** The student will be able to understand and apply manufacturing processes and technologies, including automation, machine tools, and electrical, electronic and fluid energy concepts and calculations. The student should also be able to interpret OSHA, NIOSH and other standards, and perform process safety evaluations and analyses.
- **Economics and Cost Estimating:** The student will be able to demonstrate skills for determining the cost advantage of different processes, and performing cost estimates. The student will also understand the costs and benefits associated with production concepts such as Just-In-Time and Total Quality Management.
- **Work Environment Design and Improvement:** The student will understand the techniques and methods for systematic improvement of the work environment, including value-added activities, work physiology, systematic facility design, and safety program implementation.
- **Total Quality Management:** The student will understand the implication of TQM on the local and national economy, methods and procedures for planning, organizing and controlling for quality, statistical methods for quality control, and the application of quality tools and techniques for designing products and services.

- **Production and Inventory Management:** The student will understand the varied needs for inventory, technology and human resources in different production environments, the effect of inventory on business performance, different techniques for scheduling materials, workers, machinery, and space, and the Theory of Constraints and its usage for production scheduling. The student will also become familiar with commercial software for production and inventory management.
- **Positive Personal Habits:** The student will be able to apply appropriate management skills, demonstrate ethical actions and conduct, and exhibit involvement and contribution to the community.
- **Global and Cultural Awareness:** The student will exhibit an understanding and acceptance of human and cultural diversity, and a concern for global environment and ethical treatment of all persons.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement.

B.S. DEGREE IN INDUSTRIAL TECHNOLOGY (83-85 Credits)**Core Requirements (27 Credits)**

This core must be taken by students who are majoring in one of the Industrial Technology options: Industrial Distribution, Industrial Management, or Technical Management.

- ACCT 230 Principles of Accounting I (3)
- MGMT 360 Principles of Management (3)
- TECH 380 Methods Improvement (3)
- TECH 383 Cost Analysis (3)
- TECH 385 Process Leadership (3)
- TECH 394 Computer Applications for Engineers and Technologists (3)
- TECH 428 Project Management (3)
- TECH 482 Quality Planning and Implementation (3)
- TECH 493 Occupational Safety and Health (3)

OPTION IN INDUSTRIAL DISTRIBUTION (85 Credits)**Core Requirements (27 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Industrial Technology.

Requirements (35 Credits)

Students must complete at least three credits in TECH 469.

- MKTG 310 Principles of Marketing (3)
- MKTG 315 Industrial Marketing (3)
- MKTG 419 Supply Chain Management (3)
- TECH 101 Industrial Technology Careers (1)
- TECH 113 Engineering Graphics/CAD (3)
- TECH 230 Manufacturing Processes (3)
- TECH 274 Electrical and Motor Technology (4)
- TECH 346 Industrial Distribution Operations (3)
- TECH 376 Industrial Process Control (3)
- TECH 387 Fluid Power (3)
- TECH 469 Student Internship (2-12)
- TECH 485 Production and Inventory Management (3)

Related Requirements (23 Credits)

- CHEM 102 Survey of Basic Principles of Chemistry (3)
- CMST 100 Speech Communication (3)
- CSIS 103 Computer Concepts and Applications (3)
- ECON 202 Principles of Economics I: Micro (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- PHYS 160 College Physics I (4)

OPTION IN INDUSTRIAL MANAGEMENT**(84 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Industrial Technology.

Requirements (34 Credits)

- Students must earn at least three credits in TECH 490.
- TECH 101 Industrial Technology Careers (1)
 - TECH 111 Technology and Society (2)
 - TECH 113 Engineering Graphics/CAD (3)
 - TECH 216 3D Modeling (3)
 - TECH 230 Manufacturing Processes (3)
 - TECH 274 Electrical and Motor Technology (4)
 - TECH 376 Industrial Process Control (3)
 - TECH 382 Manufacturing Automation (3)
 - TECH 387 Fluid Power (3)
 - TECH 483 Facility Design (3)
 - TECH 485 Production and Inventory Management (3)
 - TECH 490 Special Problems (1-4)

Related Requirements (23 Credits)

- CHEM 102 Survey of Basic Principles of Chemistry (3)
- CMST 100 Speech Communication (3)
- CSIS 103 Computer Concepts and Applications (3)
- ECON 202 Principles of Economics I: Micro (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- PHYS 160 College Physics I (4)

OPTION IN TECHNICAL MANAGEMENT**(83 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as “Core requirements” under the B.S. Degree in Industrial Technology.

Requirements (33 Credits)

All students who intend to complete this option must transfer in at least 30 credits in a technical area which have been earned at a Technical or Community College. Additionally, students must earn at least three credits in TECH 469.

Related Requirements (23 Credits)

In addition to the listed courses, students must earn a minimum of six semester credits in Chemistry and/or Physics. At least one of the courses must have a lab component.

- CSIS 103 Computer Concepts and Applications (3)
- ECON 202 Principles of Economics I: Micro (3)
- ENGL 387 Technical Report Writing (4)
- MATH 127 College Algebra (3)
- MATH 234 Introduction to Probability and Statistics (4)

MINOR IN INDUSTRIAL MANAGEMENT**(21 Credits)****Requirements (12 Credits)**

Students must take twelve credits from the Industrial Management options courses listed.

- TECH 113 Engineering Graphics/CAD (3)
- TECH 216 3D Modeling (3)
- TECH 230 Manufacturing Processes (3)
- TECH 274 Electrical and Motor Technology (4)
- TECH 376 Industrial Process Control (3)
- TECH 382 Manufacturing Automation (3)
- TECH 387 Fluid Power (3)
- TECH 483 Facility Design (3)
- TECH 485 Production and Inventory Management (3)
- TECH 490 Special Problems (1-4)

Related Requirements (9 Credits)

Students must take nine credits from the listed Technical Management core courses.

- TECH 380 Methods Improvement (3)
- TECH 383 Cost Analysis (3)
- TECH 385 Process Leadership (3)
- TECH 394 Computer Applications for Engineers and Technologists (3)
- TECH 428 Project Management (3)
- TECH 482 Quality Planning and Implementation (3)
- TECH 493 Occupational Safety and Health (3)

International Business

See Business

International Studies

Contact Faculty: Andrew Conteh, Foundation Annex, (218) 477-4009 or Bruce Roberts, LO 102F, (218) 477-2043

This major is designed around a required international experience such as an internship or exchange program. Students are expected to acquire an understanding of the culture and the geographical area of the county in which they study. A core of required international courses across the curriculum at the lower level is combined with an upper level emphasis in development or diplomacy. Students develop a proficiency in a foreign language and complete a senior project with the advice and counsel of an interdisciplinary committee including their advisor.

This program is ideal for those who wish to develop a career involving various kinds of international relations such as careers with the Foreign Service, non-governmental agencies, international organizations such as the U.N., IMF, NATO, EU, or working in international trade for multinational companies. It is also excellent preparation for participation in international volunteer organizations such as the Peace Corps and non-governmental organizations (NGO's).

B.S. DEGREE IN INTERNATIONAL STUDIES (57-74 Credits)

Core Requirements (33-49 Credits)

This core is required of all students who major in one of the International Studies emphases: Development or Diplomacy. Students must complete a minimum of one credit in INTL 400 and a minimum of three credits in INTL 450. In addition to the listed courses, students are required to demonstrate proficiency at the second year level in a foreign language. Students may demonstrate their competency by means of an evaluation by the language department, or they must complete college level courses through the 200 level. If course work is required, this may add up to 16 semester credits to the requirements of this major.

ANTH 110 Introduction to Cultural Anthropology (3)
 ECON 204 Principles of Economics II: Macro (3)
 GEOS 111 Cultures and Regions (3)
 HIST 104 World History I (4)
 HIST 105 World History II (4)
 INTL 105 Introduction to Global Issues (3)
 INTL 400 Global Experience (1-2)
 INTL 450 Senior Project (3-6)
 PHIL 120 World Religions (3)
 POL 160 International Relations (3)
 SOC 110 Introduction to Sociology (3)

EMPHASIS IN DEVELOPMENT (57-74 Credits)

Core Requirements (33-49 Credits)

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in International Studies.

Requirements (21 Credits)

Students must complete at least 21 credits chosen from the following list.

ANTH 306 Medical Anthropology (3)
 ANTH 307 Ecological Anthropology (3)
 CMST 300 Intercultural Communication (3)
 ECON 300 Global Economic Issues (3)
 ECON 335 Comparative Systems and Economic Development (3)
 GEOS 320 Economic Geography (3)
 GEOS 410 Eastern Europe and Russia (3)
 HIST 334 History of Latin America II (4)
 HIST 336 History of Mexico (3)
 HLTH 326 Epidemiology (3)
 POL 265 International Protection of Human Rights (3)
 POL 352 Political Problems in Developing Countries (3)
 POL 361 International Political Economy (3)
 SOC 315 Population (3)
 SOC 322 Urban Sociology (3)

Restricted Electives (3-4 Credits)

Students must take one of the listed research methods courses.

CMST 215 Communication Research Methods (3)
 POL 310 Political Science Research Methods (3)
 SOC 350 Methods and Statistics for Social Research (4)

EMPHASIS IN DIPLOMACY (57-74 Credits)

Core Requirements (33-49 Credits)

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in International Studies.

Requirements (21 Credits)

Students must complete at least 21 credits from the listed courses.

ANTH 220 Peoples and Cultures of Africa (3)
 ANTH 265 Language and Culture (3)
 ANTH 380 Traditional Cultures (3)
 CMST 300 Intercultural Communication (3)
 GEOS 320 Economic Geography (3)
 GEOS 410 Eastern Europe and Russia (3)
 HIST 302 East Asian History II (3)
 HIST 318 Modern Germany (4)
 HIST 322 History of Britain II (3)
 HIST 325 Modern France (4)
 HIST 346 Modern China (3)
 HIST 347 Modern Japan (3)
 MC 300 International Communications (3)

- POL 265 International Protection of Human Rights (3)
- POL 350 Comparative Governments of Western Europe (3)
- POL 352 Political Problems in Developing Countries (3)
- POL 360 American Foreign Policy (3)
- POL 361 International Political Economy (3)
- POL 363 Public International Law (3)
- POL 366 International Conflict Resolution (3)
- POL 369 International Organizations (3)

Restricted Electives (3-4 Credits)

- Students must complete one of the listed research methods courses.
- CMST 215 Communication Research Methods (3)
 - POL 310 Political Science Research Methods (3)
 - SOC 350 Methods and Statistics for Social Research (4)

Japanese

See Languages and Cultures

Journalism

See Mass Communications

Languages and Cultures

Languages and Cultures Department

Library Porch, (218) 477-2912

Chair: Takanori Mita

Faculty: John Hall, James Kaplan, Cecillia Mafla-Bustamante, Cristina Mitrovici, Chizuko Shastri, Benjamin Smith, Su-Lin Tai

East Asian Studies

The department offers a B.A. major and minor in East Asian Studies. Students who major in East Asian Studies may select one of three areas of emphasis: business, humanities, or language and culture. The core requirements for this program consist of:

- (1) Four semesters of Chinese or Japanese; (2) Chinese 132 (Chinese Culture) and Japanese 142 (Japanese Culture); (3) Two East Asian history courses. For detailed requirements, see *B.A. Degree in East Asian Studies*. Three year courses of study are offered in both Chinese and Japanese.

Spanish

The department offers B.A. and B.S. majors and minors in Spanish. In our Spanish program, students first focus on becoming proficient in their use and understanding of the language then they begin to take courses in culture & civilization, literature, linguistics, and translation.

The Department of Languages and Cultures is affiliated with Sigma Delta Pi, the National Collegiate Hispanic Honor Society. Our chapter of the Society, Upsilon Sigma, is one of only 17 chapters in the United States to be recognized for special Honor and Merit for excellence in carrying out its activities.

Proposed course of study for B.A. Spanish majors:

- 1st year
 - 1st semester SPAN 201, SPAN 211
 - 2nd semester SPAN 202, SPAN 212
- 2nd year
 - 1st semester SPAN 301, SPAN 311
 - 2nd semester SPAN 302, SPAN 321 or 322
- 3rd year
 - 1st semester SPAN 340, SPAN 401
 - 2nd semester SPAN 340 or 342, SPAN 351
- 4th year
 - 1st semester Any 3rd or 4th year elective
 - 2nd semester Any 3rd or 4th year elective

Students who are seeking a B.S. degree in Spanish Education will need to work closely with their advisor in order to make the proper adjustments to the program outlined above. Students who begin their Spanish studies at a level below Spanish 201 will also need to make adjustments to the above schedule, in consultation with their faculty advisor.

Admission to Spanish 301 has the following prerequisites:

- Transfer students or incoming freshmen must take a placement exam before enrolling in Spanish 301.
- Students who have taken Spanish 201 and 202 at MSUM must have a minimum GPA of 3.0 in those two courses in order to enroll in Spanish 301.

French

The department offers 4 semesters of French (101, 102, 201, 202). Students may obtain a minor in French through Tri-College coursework.

Other Languages

Students may obtain minors in German, Greek, Norwegian, Russian Studies, and Scandinavian Studies through Tri-College coursework.

Study Abroad

Students who are studying in the Department of Languages and Cultures are strongly encouraged to take advantage of the opportunity to study abroad. MSUM is affiliated with the International Student Exchange Program (ISEP), which allows students to pay tuition at MSUM and attend universities all over the world. We also have exchange programs and connections with other study abroad programs in China, Japan, Mexico and Ecuador. Students who wish to study abroad should work closely with their faculty advisor in order to plan a course of study that will apply to their major or minor coursework here.

General Information

Several departments/programs, —including Art History, Biology, Chemistry, English, History, Mass Communications, 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 and International Studies requires two years of a foreign language.

Previous Instruction

Students with one year or less of foreign language at the secondary level should enroll in a beginning language course (101). Students with two years of high school language study should ordinarily enroll in 102. Most students who have had three to four years of high school language instruction should enroll in an intermediate course (201 and 211 or 202 and 212).

There is a required, online placement exam for incoming Spanish students. Consult with the department chair if you have questions concerning placement.

Teaching Foreign Languages

Students who plan to teach foreign languages in elementary or secondary public schools should 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 14 credits of upper-level coursework in the department, including LANG 441 and 442. Candidates for teaching licensure must be

able to pass a number of proficiency tests that meet the standards of the State Board of Teaching before the application for teaching licensure can be 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. Consult with the department chair concerning an advisor.

Graduate Study in Foreign Languages

A reading knowledge of a second foreign language is essential to graduate study in languages. A 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. It is also advisable to take more than the minimum credits required for the major. Please see the MSUM *Graduate Bulletin* for information about our Master of Liberal Arts Degree with an Emphasis in Hispanic Studies.

STUDENT LEARNING OUTCOMES

The department's assessment plan in the areas of listening, speaking, reading, writing and culture is based on the American Council on the Teaching of Foreign Languages Proficiency Guidelines.

Listening: At the Advanced Mid proficiency level, students are able to:

- understand main ideas and most details of connected discourse on a variety of topics in different time; demonstrate emerging awareness of culturally implied meanings.

Reading: At the Advanced High proficiency level, students are able to follow essential points of written discourse at normal speed. They are able to:

- comprehend a variety of authentic, linguistically complex and conceptually abstract literary, cultural, and expository texts on familiar and unfamiliar subjects, such as descriptions, narration, short stories and a variety of other literary texts, news items, biographical information, personal correspondence, routine business letters and simple technical material;
- comprehend facts and make appropriate inferences;
- appreciate the basic aesthetic properties of language and literary style.

Writing: At the Intermediate-Mid/High proficiency level, students are able to meet most practical writing needs. They are able to:

- write simple social correspondences, take notes, compose summaries, narratives and descriptions of a factual nature;
- use a range of vocabulary to express intended meaning with some circumlocution;
- demonstrate good control of the basic syntax and morphology of the target language;
- organize essays to clearly develop main thesis and argumentation showing some awareness of intended audience and appropriate linguistic register.

Speaking: At the Intermediate Mid/High proficiency level, students can initiate and maintain communication for most uncomplicated social tasks. They are able to:

- successfully handle basic survival needs in the target culture;
- be understood by most speakers of the native language;
- narrate, and describe in the past, present, and future time frames;
- converse with ease and confidence when dealing with most routine tasks and social situations.

Knowledge of Culture: Students are expected to demonstrate familiarity with:

- major aspects of the history and civilization of countries where the target language is spoken;
- major contemporary aspects of the countries where the target language is spoken—political, social, cultural, etc.;
- routine business and social situations in the target culture such as common rules of etiquette, taboos and sensitivities.

Knowledge of Literature: Students are expected to demonstrate familiarity with:

- major authors, texts and literary movements in the target literature;
- basic concepts of literary analysis.

Research and Information Gathering: Students in upper-division literature, culture, and linguistics courses should be able to:

- locate and use appropriate secondary sources, bibliographical materials;
- use proper scholarly format for writing papers including accreditation of source materials;
- prepare bibliographies (annotated) of primary and secondary sources as required;
- organize and present results of information gathering in a coherent manner.

Knowledge about Language as a System: Students will be:

- aware that every language has distinctive features of morphology, phonology, semantics, and register to communicate meaning.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN EAST ASIAN STUDIES (40 Credits)

Core Requirements (22 Credits)

This core is required of all students who major in one of the East Asian Studies emphases: Language and Culture, Humanities, and Business. All students must complete CHIN 132 and JAPN 142. Additionally, students must complete the CHIN 101, 102, 201, 202 sequence or the JAPN 101, 102, 201, 202 sequence. Students may not count courses in more than one category; if a course satisfies the Core Requirements section, it may not also be used to satisfy a requirement in any of the emphases. No courses in the Core Requirements or the emphases may be taken Pass/No Credit.

- CHIN 101 Beginning Chinese I (4)
- CHIN 102 Beginning Chinese II (4)
- CHIN 201 Intermediate Chinese I (4)
- CHIN 202 Intermediate Chinese II (4)
- CHIN 132 Introduction to Chinese Culture (3)
- AND JAPN 142 Introduction to Japanese Culture (3)
- OR JAPN 101 Beginning Japanese I (4)
- JAPN 102 Beginning Japanese II (4)
- JAPN 201 Intermediate Japanese I (4)
- JAPN 202 Intermediate Japanese II (4)
- CHIN 132 Introduction to Chinese Culture (3)
- AND JAPN 142 Introduction to Japanese Culture (3)

Related Requirements (6 Credits)

Students must earn six credits from the following list of courses:

- HIST 301 East Asian History I (3)
- HIST 302 East Asian History II (3)
- HIST 346 Modern China (3)
- HIST 347 Modern Japan (3)

EMPHASIS IN BUSINESS (40 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed under “Core Requirements” and “Related Requirements” for the B.A. Degree in East Asian Studies.

Requirements (12 Credits)

Students must earn twelve credits from the following list of courses. Normally, business minors or majors will not need additional prerequisites to take these courses. Non-business students should note that ECON 202 and ECON 204 are prerequisites for ECON 300; FINC 340, ACCT 231, and MATH 234 are prerequisites for FINC 445, MKTG 310 is a prerequisite for MKTG 444; and MGMT 360 is a prerequisite for MGMT 458.

ECON 300 Global Economic Issues (3)
 FINC 340 Financial Management (3)
 FINC 445 International Financial Management (3)
 MGMT 360 Principles of Management (3)
 MGMT 458 International Management (3)
 MKTG 310 Principles of Marketing (3)
 MKTG 444 International Marketing (3)

EMPHASIS IN HUMANITIES (40 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed under “Core Requirements” and “Related Requirements” for the B.A. Degree in East Asian Studies.

Requirements (3 Credits)

ART 338 Non-Western Art (4)

Restricted Electives (9 Credits)

Students must earn four credits from the listed history courses (students may not use courses taken previously to satisfy the Related Requirements section). Students must also earn five credits in advanced language/culture study in the listed Chinese, History, Humanities, Japanese, or Speech courses (students may satisfy part or all of the language/culture requirement via approved study abroad programs).

CHIN 301 Advanced Chinese Grammar (4)
 CHIN 302 Chinese Conversation and Composition (4)
 CHIN 350 Chinese Calligraphy (2)
 CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)
 CHIN 397 Independent Study in Chinese - Advanced Level (1-2)
 CMST 300 Intercultural Communication (3)
 HIST 220 Asian-American Culture (2)
 HIST 301 East Asian History I (3)
 HIST 302 East Asian History II (3)
 HIST 346 Modern China (3)
 HIST 347 Modern Japan (3)
 HIST 401 Senior Seminar (3-4)
 HIST 497 Individual Study (1-3)
 HUM 220 Introduction to East-West Humanities (3)
 JAPN 301 Advanced Japanese Grammar (4)
 JAPN 302 Japanese Conversation and Composition (4)

JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)

JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)

EMPHASIS IN LANGUAGE AND CULTURE (40 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed under “Core Requirements” and “Related Requirements” for the B.A. Degree in East Asian Studies.

Restricted Electives (12 Credits)

Students must complete four credits from the listed history courses (students may not use courses taken previously to satisfy the Related Requirements section). Students must also complete eight credits in advanced language/culture study in the listed Japanese or Chinese courses (students may satisfy part or all of the language/culture requirement via approved study abroad programs).

CHIN 301 Advanced Chinese Grammar (4)
 CHIN 302 Chinese Conversation and Composition (4)
 CHIN 350 Chinese Calligraphy (2)
 CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)
 CHIN 397 Independent Study in Chinese - Advanced Level (1-2)
 HIST 301 East Asian History I (3)
 HIST 302 East Asian History II (3)
 HIST 346 Modern China (3)
 HIST 347 Modern Japan (3)
 HIST 401 Senior Seminar (3-4)
 HIST 497 Individual Study (1-3)
 JAPN 301 Advanced Japanese Grammar (4)
 JAPN 302 Japanese Conversation and Composition (4)
 JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)
 JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)

MINOR IN EAST ASIAN STUDIES (21 Credits)**Requirements (8 Credits)**

Students must take one year of Chinese language or Japanese language.

Electives (13 Credits)

Students must take a minimum of two courses (6-8 Credits) in East Asian History. In addition, students must choose at least five credits in elective courses in close consultation with an advisor in the East Asian program. Courses may be taken from the list below. Other courses may apply if approved by the program coordinator.

Equivalents of some of these courses may be taken through study abroad programs with approval of the program coordinator.

- ART 338 Non-Western Art (4)
 CHIN 101 Beginning Chinese I (4)
 CHIN 102 Beginning Chinese II (4)
 CHIN 190 Topics in Chinese Language, Literature, and Culture (1-4)
 CHIN 201 Intermediate Chinese I (4)
 CHIN 202 Intermediate Chinese II (4)
 CHIN 250 Beginning Chinese Calligraphy (2)
 CHIN 290 Topics in Chinese Language, Literature, and Culture (1-4)
 CHIN 297 Independent Study in Chinese - Intermediate Level (1-2)
 CHIN 301 Advanced Chinese Grammar (4)
 CHIN 302 Chinese Conversation and Composition (4)
 CHIN 350 Chinese Calligraphy (2)
 CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)
 CHIN 397 Independent Study in Chinese - Advanced Level (1-2)
 CMST 300 Intercultural Communication (3)
 ECON 335 Comparative Systems and Economic Development (3)
 HIST 220 Asian-American Culture (2)
 HIST 301 East Asian History I (3)
 HIST 302 East Asian History II (3)
 HIST 307 Topics in Asian History (3)
 HIST 346 Modern China (3)
 HIST 347 Modern Japan (3)
 HIST 378 Asian-American History (3)
 HIST 401 Senior Seminar (3-4)
 HIST 497 Individual Study (1-3)
 HUM 220 Introduction to East-West Humanities (3)
 JAPN 101 Beginning Japanese I (4)
 JAPN 102 Beginning Japanese II (4)
 JAPN 190 Topics in Japanese Language, Literature, and Culture (1-4)
 JAPN 201 Intermediate Japanese I (4)
 JAPN 202 Intermediate Japanese II (4)
 JAPN 290 Topics in Japanese Language, Literature, and Culture (1-4)
 JAPN 297 Independent Study in Japanese - Intermediate Level (1-2)
 JAPN 301 Advanced Japanese Grammar (4)
 JAPN 302 Japanese Conversation and Composition (4)
 JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)
 JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)
 PHIL 120 World Religions (3)
 CHIN 132 Introduction to Chinese Culture (3)
 JAPN 142 Introduction to Japanese Culture (3)

B.A. DEGREE IN LANGUAGES (49 Credits) **Requirements (39 Credits)**

Students who wish to pursue the B.A. in Languages must also complete a “primary” major in another academic program. The student will take at least 23 credits of intermediate and advanced language/literature and/or culture/civilization courses in a primary language and at least 16 credits in beginning and intermediate language courses in a secondary language.

B.A. DEGREE IN SPANISH (49 Credits) **Requirements (41 Credits)**

- SPAN 201 Intermediate Spanish I (3)
 SPAN 211 Intermediate Spanish Conversation I (3)
 SPAN 202 Intermediate Spanish II (3)
 SPAN 212 Intermediate Spanish Conversation II (3)
 SPAN 301 Spanish Grammar & Composition I (3)
 SPAN 311 Advanced Spanish Conversation (3)
 SPAN 302 Spanish Grammar & Composition II (3)
 SPAN 321 Iberian Culture & Civilization (4)
OR SPAN 322 Latin American Culture & Civilization (4)
 SPAN 340 Introduction to Spanish Literature (4)
 SPAN 341 Survey of Iberian Literature (4)
OR SPAN 342 Survey of Latin American Literature (4)
 SPAN 351 Spanish Phonetics & Phonology (4)
 SPAN 401 Advanced Spanish Grammar & Composition (4)

Restricted Electives (8 Credits)

Students must take 8 credits in Spanish electives from the following list. If a student takes SPAN 321 in partial fulfillment of the major, SPAN 322 can be taken as an elective, and vice-versa. If a student takes SPAN 341 in partial fulfillment of the major, SPAN 342 can be taken as an elective, and vice-versa.
 SPAN 421 Advanced Iberian Culture & Civilization (4)
 SPAN 422 Advanced Latin American Culture & Civilization (4)
 SPAN 443 Genres/Themes in Iberian/Latin American Literature (4)
 SPAN 444 Periods/Authors in Iberian/Latin American Literature (4)
 SPAN 451 Survey of Spanish Linguistics (4)
 SPAN 461 Introduction to Spanish Translation I (4)
 SPAN 490 Special Topics in Language / Literature / Culture (4)

MINOR IN SPANISH (25 Credits) **Requirements (25 Credits)**

- SPAN 201 Intermediate Spanish I (3)
 SPAN 211 Intermediate Spanish Conversation I (3)

SPAN 202 Intermediate Spanish II (3)
 SPAN 212 Intermediate Spanish Conversation II (3)
 SPAN 301 Spanish Grammar & Composition I (3)
 SPAN 311 Advanced Spanish Conversation (3)
 SPAN 302 Spanish Grammar & Composition II (3)
 SPAN 321 Iberian Culture & Civilization (4)
OR SPAN 322 Latin American Culture & Civilization (4)

**B.S. DEGREE IN SPANISH EDUCATION
(90 Credits)**

Requirements (49 Credits)

The teaching major is identical to the B.A. program except that students must take Lang 471 and 472 and fulfill all teacher licensure requirements (33 credits of education courses, including student-teaching).

LANG 471 Methods & Materials in Teaching Foreign Languages I (4)

LANG 472 Methods & Materials in Teaching Foreign Languages II (4)

SPAN 201 Intermediate Spanish I (3)

SPAN 211 Intermediate Spanish Conversation I (3)

SPAN 202 Intermediate Spanish II (3)

SPAN 212 Intermediate Spanish Conversation II (3)

SPAN 301 Spanish Grammar & Composition I (3)

SPAN 311 Advanced Spanish Conversation (3)

SPAN 302 Spanish Grammar & Composition II (3)

SPAN 321 Iberian Culture & Civilization (4)

OR SPAN 322 Latin American Culture & Civilization (4)

SPAN 340 Introduction to Spanish Literature (4)

SPAN 341 Survey of Iberian Literature (4)

OR SPAN 342 Survey of Latin American Literature (4)

SPAN 351 Spanish Phonetics & Phonology (4)

SPAN 401 Advanced Spanish Grammar & Composition (4)

Restricted Electives (8 Credits)

Students must take 8 credits in Spanish electives from the following list. If a student takes SPAN 321 in partial fulfillment of the major, SPAN 322 can be taken as an elective, and vice-versa. If a student takes SPAN 341 in partial fulfillment of the major, SPAN 342 can be taken as an elective, and vice-versa.

SPAN 421 Advanced Iberian Culture & Civilization (4)

SPAN 422 Advanced Latin American Culture & Civilization (4)

SPAN 443 Genres/Themes in Iberian/Latin American Literature (4)

SPAN 444 Periods/Authors in Iberian/Latin American Literature (4)

SPAN 451 Survey of Spanish Linguistics (4)

SPAN 461 Introduction to Spanish Translation I (4)

SPAN 490 Special Topics in Language / Literature / Culture (4)

MINOR IN SPANISH EDUCATION (33 Credits)

Requirements (33 Credits)

LANG 471 Methods & Materials in Teaching Foreign Languages I (4)

LANG 472 Methods & Materials in Teaching Foreign Languages II (4)

SPAN 201 Intermediate Spanish I (3)

SPAN 211 Intermediate Spanish Conversation I (3)

SPAN 202 Intermediate Spanish II (3)

SPAN 212 Intermediate Spanish Conversation II (3)

SPAN 301 Spanish Grammar & Composition I (3)

SPAN 311 Advanced Spanish Conversation (3)

SPAN 302 Spanish Grammar & Composition II (3)

SPAN 321 Iberian Culture & Civilization (4)

OR SPAN 322 Latin American Culture & Civilization (4)

Restricted Electives (3 Credits)

Students must take one 3 or 4 credit course at the 300 or 400 level.

Latin

See Classics

Legal Studies

Program Director: Paul Kramer, Foundation Annex, (218) 477-4022

The Legal Studies major provides undergraduates with an opportunity to become familiar with legal ideas, legal institutions, and the legal process. It is designed to provide tools for reasoned appraisal of how the law works and of the policies that underlie it. The major is based firmly on the view that the study of law and justice has a rich humanistic tradition and that its pursuit can encourage reflection on fundamental values.

The courses deal with a wide variety of subjects, including philosophy of law, American and Anglo-American history, non-western legal traditions, politics and law, sociology and criminal justice, as well as economic policy and business law applications. Courses are taught by faculty with backgrounds in the Humanities and Social Sciences as well as law.

The Legal Studies major was not specifically designed to be the only path for preparing students for law school, nor does it provide significant paralegal training. On the other hand, it does help students develop their ability to think clearly and analyze arguments critically. This multidisciplinary approach

exposes the student to a great variety of human behaviors and institutions. Many students who plan to go to law school may benefit from this major as a field of liberal arts study.

Students choosing this degree program should be aware that most of the upper division courses in the major have prerequisites which will be enforced. Students interested in this program of study are strongly encouraged to meet with the Legal Studies Director as early as possible in their academic career to form a coherent plan regarding course selection.

STUDENT LEARNING OUTCOMES

Not approved by date of publication. Consult program director for Student Learning Outcomes.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the approved upper level writing requirement. See the program director for specific details.

B.A. DEGREE IN LEGAL STUDIES (63-64 Credits)

Core Requirements (15 Credits)

This core is required of all students who major in one of the Legal Studies emphases: The American Legal System, Economics and Business, History, Human Rights, Philosophy, or Sociology and Criminal Justice.

- ACCT 304 Legal Environment of Business (3)
- CMST 111 Argumentation and Debate (3)
- PARA 250 Legal Research and Writing I (3)
- PARA 251 Legal Research and Writing II (3)
- POL 230 Introduction to the Law (3)

Restricted Electives (27 Credits)

Students who major in one of the Legal Studies emphases (The American Legal System, Economics and Business, History, Human Rights, Philosophy, or Sociology and Criminal Justice) are required to earn twenty-seven credits from the listed elective choices. Courses used to satisfy the student's emphasis cannot be applied to this requirement.

- ACCT 306 Contracts and Business Entities (3)
- ACCT 307 Commercial Transactions, Property and Special Topics (3)
- CJ 335 Criminal Law (3)
- CJ 337 Criminal Procedure (3)
- ECON 315 Government and Business (3)
- ECON 317 History of Economic Thought (3)
- HIST 321 History of Britain I (3)
- HIST 322 History of Britain II (3)
- HIST 366 Constitutional History of the United States to 1865 (3)

HIST 367 Constitutional History of the United States since 1865 (3)

- PARA 310 Civil Procedure I (3)
- PARA 340 Evidence (3)
- PHIL 300 History of Ethics (4)
- PHIL 303 Classical Philosophy (4)
- PHIL 305 Modern Philosophy: 17th Century (2)
- PHIL 306 Modern Philosophy: 18th Century (2)
- PHIL 340 Symbolic Logic (3)
- POL 265 International Protection of Human Rights (3)
- POL 332 Constitutional Law I: Institutional Powers and Constraints (3)
- POL 333 Constitutional Law II: Civil Rights and Liberties (3)
- POL 363 Public International Law (3)
- POL 366 International Conflict Resolution (3)
- SOC 230 Social Psychology (3)
- SOC 307 Sociology of Courts (3)
- SOC 309 Law and Society (4)

Related Requirements (9 Credits)

Students who major in one of the Legal Studies emphases (The American Legal System, Economics and Business, History, Human Rights, Philosophy, or Sociology and Criminal Justice) must complete the listed courses. These courses may also be used to satisfy Liberal Studies requirements.

- POL 120 American National Government and Politics (3)
- SOC 110 Introduction to Sociology (3)
- PHIL 101 Introduction to Western Philosophy (3)
- OR PHIL 105 Philosophical Thinking (4)

EMPHASIS IN THE AMERICAN LEGAL SYSTEM (63 Credits)

Requirements (12 Credits)

In addition to the listed courses, students must complete the course requirements listed as "Core Requirements", "Restricted Electives", and "Related Requirements" under the B.A. Degree in Legal Studies.

- CJ 337 Criminal Procedure (3)
- PARA 310 Civil Procedure I (3)
- PARA 340 Evidence (3)
- POL 332 Constitutional Law I: Institutional Powers and Constraints (3)

EMPHASIS IN ECONOMICS AND BUSINESS (63 Credits)

Requirements (12 Credits)

In addition to the listed courses, students must complete the course requirements listed as "Core Requirements", "Restricted Electives", and "Related Requirements" under the B.A. Degree in Legal Studies.

ACCT 306 Contracts and Business Entities (3)
 ACCT 307 Commercial Transactions, Property and
 Special Topics (3)
 ECON 315 Government and Business (3)
 ECON 317 History of Economic Thought (3)

EMPHASIS IN HISTORY (63 Credits)

Requirements (12 Credits)

In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

HIST 321 History of Britain I (3)
 HIST 322 History of Britain II (3)
 HIST 366 Constitutional History of the United States to 1865 (3)
 HIST 367 Constitutional History of the United States since 1865 (3)

EMPHASIS IN HUMAN RIGHTS (63 Credits)

Requirements (12 Credits)

In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

POL 265 International Protection of Human Rights (3)
 POL 333 Constitutional Law II: Civil Rights and Liberties (3)
 POL 363 Public International Law (3)
 POL 366 International Conflict Resolution (3)

EMPHASIS IN PHILOSOPHY (64 Credits)

Requirements (13 Credits)

In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

PHIL 300 History of Ethics (4)
 PHIL 303 Classical Philosophy (4)
 PHIL 305 Modern Philosophy: 17th Century (2)
OR PHIL 306 Modern Philosophy: 18th Century (2)
 PHIL 340 Symbolic Logic (3)

EMPHASIS IN SOCIOLOGY AND CRIMINAL JUSTICE (64 Credits)

Requirements (13 Credits)

In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

CJ 335 Criminal Law (3)
 SOC 230 Social Psychology (3)
 SOC 307 Sociology of Courts (3)
 SOC 309 Law and Society (4)

Life Science (Teaching)

See Biosciences

Management

See Business

Marketing

See Business

Mass Communications

Mass Communications Department

MacLean 260, (218) 477-2983

Chair: C. Mark Strand

Faculty: Marvin Bossart, Colan T. Hanson, Martin Grindeland, Wayne Gudmundson, Shelton Gunaratne, William Hall, Daniel Johnson, Jody Mattern, Regene Radniecki, Susanne Williams, Camilla Wilson

The major in Mass Communications balances the breadth of the liberal arts curriculum with the depth of professional mass communications courses. Majors complete 45 credits of Liberal Studies courses, 39 to 69 credits in mass communications (credits vary by choice of emphasis) and the remaining credits in electives. Students must earn 128 credits to graduate with at least 40 credits at the 300 – 400 level. The goal of the curriculum is to prepare a student for employment in the mass communications industry. Internships are strongly encouraged.

The Common Core (21 credits)

All mass communications majors are required to complete a common core of coursework that includes mass communications theory, ethics, law and the development of verbal and visual storytelling skills.

The Professional Emphasis (18 – 48 credits)

Students majoring in mass communications must complete one or more professional emphasis areas. Students may choose at least one emphasis in the areas including Advertising, Broadcast Journalism, Integrated Advertising and Public Relations, Online Journalism, Photojournalism, Print Journalism or Public Relations.

MC 400 Ethics and Issues and MC 401 Communications must be completed at MSUM, unless otherwise approved. Transfer and Tri-College University courses applied to the major must be approved in writing using MSUM's Course Substitution document, appear in an articulated agreement between MSUM and another university or appear in the Minnesota Transfer Curriculum.

Advertising

The Advertising Emphasis prepares students to research, create, write, design and produce ad messages and ad campaigns; buy and sell media; and to develop promotions to support advertising and marketing goals in an integrated marketing communications campaign.

Broadcast Journalism

The Broadcast Emphasis prepares students to research, report, write, edit, photograph, produce and direct a newscast. Students produce stories for spot news, features and a television documentary. A student news workshop called Campus News is produced weekly and aired on the local PBS station - Prairie Public Television – during Spring semester each year.

Integrated Advertising and Public Relations

The integrated advertising and public relations emphasis prepares students to research, create, write, design and produce advertising and public relations messages and campaigns; design, produce, and manage special events; and also to develop promotions to support the advertising, marketing and public relations goals in an integrated marketing communications campaign.

Photojournalism

The photojournalism emphasis prepares students to investigate, report, photograph, develop, edit and produce photos for news storytelling feature documentaries. Students are involved in producing and publishing a photo-documentary each year.

Print Journalism

The print journalism emphasis prepares students to investigate, write, report, copy-edit and produce news, opinion-editorials and feature stories. Students publish stories in both campus and off-campus media outlets.

Public Relations

The public relations emphasis prepares students to research, create, write, design and produce public relations messages and campaigns; design and produce, and manage special events; and develop promotions to support marketing and public relations goals in an integrated marketing communications campaign.

Online Journalism

The online journalism emphasis prepares students to investigate, write, report, photograph, digitally edit photographs, copy-edit, design and produce content and formatting for online publications as well as Web sites. Students develop and produce an annual online publication for public consumption.

Dual Major: Mass Communications and English

The dual major in mass communications and English prepares students to research and write creative stories, news stories and fictional or non-fictional features. The dual major is available for those wishing to concentrate in writing and a student may choose to focus the writing experience to coincide with one's interest[s] in advertising, public relations, print, broadcast, photo and online journalism.

Minor in Mass Communications

The minor in mass communications is designed to introduce students to mass communications and develop skills in verbal and visual storytelling for the media. Students can concentrate electives in a particular emphasis or may elect to take a broad range of electives.

Certificate in Publishing

English/Mass Communications

The purpose of the Certificate in Publishing is to prepare students to work within the unique framework of the publishing industry, and to design and deliver an educational experience that allows students to learn about acquiring, editing, publishing and promoting new literature. As students at MSUM and as interns associated with New Rivers Press at MSUM, completing the certificate would develop a set of skills that will qualify a student for entry level employment in the publishing industry.

Please consult the department for further information.

STUDENT LEARNING OUTCOMES

Students will be able to:

- recognize the theoretical concepts in one's chosen emphasis;
- demonstrate an understanding of the ethics governing one's chosen emphasis;
- demonstrate verbal competency in one's chosen emphasis;
- demonstrate visual competency in one's chosen emphasis;
- demonstrate an ability to work collaboratively;
- demonstrate an ability to create a professional document that meets industry standards;
- demonstrate entry level competence in one's chosen emphasis through successful completion of an internship or other professional field experience.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements for each respective emphasis area will have met the department's approved upper level writing requirement. Designated upper level writing courses include: MC 306 Ad Copywriting, MC 307 Public Relations Processes, MC 308 Broadcast Journalism and MC 309 Reporting.

B.S. DEGREE IN MASS COMMUNICATIONS (39-69 Credits)**Core Requirements (21 Credits)**

The core is required of all students who major in one of the Mass Communications emphases: Advertising, Public Relations, Integrated Advertising and Public Relations, Online Journalism, Broadcast Journalism, Photojournalism and Print Journalism.

MC 100 Introduction to Mass Communications (3)

MC 210 Media Writing (3)

MC 220 Desktop Publishing (3)

MC 230 Photography (3)

MC 300 International Communications (3)

OR MC 302 History of Mass Communications (3)

MC 400 Mass Media Ethics and Issues (3)

MC 401 Communications Law (3)

EMPHASIS IN ADVERTISING (57 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications.

Requirements (36 Credits)

MC 251 Desktop Video (3)

MC 301 Online Advertising, News, and PR (3)

MC 303 Advertising Principles (3)

MC 304 Public Relations Principles (3)

MC 305 Imaging in Advertising and Public Relations (3)

MC 306 Advertising Copywriting (3)

MC 320 Layout and Typography (3)

MC 351 Interactive Online Communications (3)

MC 352 e-Communications (3)

MC 365 Media Planning (3)

MC 459 Advertising Campaign Research (3)

MC 460 Advertising Campaign Execution (3)

Recommended (0 Credits)

These courses are recommended, but not required.

MC 240 Radio Programming and Production (3)

MC 331 Photo Editing (3)

MC 353 Audio and Visual Online Production (3)

MC 415 Gender and Media (3)

EMPHASIS IN BROADCAST JOURNALISM (42 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications.

Requirements (21 Credits)

Students are expected to earn at least three credits in MC 341.

MC 308 Broadcast Journalism (3)

MC 309 Reporting (3)

MC 341 Television News Writing (1-3)

MC 342 Television News Reporting (3)

MC 343 Television News Photography (3)

MC 344 Television News Video Editing (3)

OR MC 345 Television News Producing (2-3)

MC 440 Broadcast Documentary (3)

Recommended (0 Credits)

These courses are recommended, but not required.

MC 240 Radio Programming and Production (3)

MC 251 Desktop Video (3)

MC 272 Television Production (3)

MC 373 Radio/Television Performance (3)

MC 405 Computer Assisted Reporting (3)

EMPHASIS IN INTEGRATED ADVERTISING AND PUBLIC RELATIONS (69 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications.

Requirements (48 Credits)

MC 251 Desktop Video (3)

MC 301 Online Advertising, News, and PR (3)

MC 303 Advertising Principles (3)

MC 304 Public Relations Principles (3)

MC 305 Imaging in Advertising and Public Relations (3)

MC 306 Advertising Copywriting (3)

MC 307 Public Relations Processes (3)

MC 310 Copy Editing (3)

MC 320 Layout and Typography (3)

MC 351 Interactive Online Communications (3)

MC 352 e-Communications (3)

MC 365 Media Planning (3)

MC 375 Case Studies in Organizational Public Relations (3)

MC 423 Marketing Communications (3)

MC 459 Advertising Campaign Research (3)

AND MC 460 Advertising Campaign Execution (3)

OR MC 470 Public Relations Campaign Research (3)

AND MC 471 Public Relations Campaign Execution (3)

Recommended (0 Credits)

These courses are recommended, but not required.

MC 272 Television Production (3)

MC 415 Gender and Media (3)

MC 427 Public Relations Fundraising (3)

EMPHASIS IN ONLINE JOURNALISM (63 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (42 Credits)

MC 251 Desktop Video (3)

MC 301 Online Advertising, News, and PR (3)

MC 305 Imaging in Advertising and Public Relations (3)

MC 308 Broadcast Journalism (3)

MC 309 Reporting (3)

MC 310 Copy Editing (3)

MC 320 Layout and Typography (3)

MC 331 Photo Editing (3)

MC 343 Television News Photography (3)

MC 344 Television News Video Editing (3)

MC 351 Interactive Online Communications (3)

MC 352 e-Communications (3)

MC 405 Computer Assisted Reporting (3)

MC 492 Online Journalism Workshop (3)

Recommended (0 Credits)

These courses are recommended, but not required.

CSIS 101 Introduction to the Internet (2)

MC 330 Photojournalism (3)

MC 415 Gender and Media (3)

MC 420 Multimedia Communications (3)

EMPHASIS IN PHOTOJOURNALISM (42 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (21 Credits)

Students are required to enroll in MC 430 twice and will apply a maximum of six credits toward the photojournalism concentration.

MC 308 Broadcast Journalism (3)

OR MC 309 Reporting (3)

MC 320 Layout and Typography (3)

MC 330 Photojournalism (3)

MC 343 Television News Photography (3)

MC 331 Photo Editing (3)

OR MC 344 Television News Video Editing (3)

MC 430 Documentary Photography (3)

EMPHASIS IN PRINT JOURNALISM (39 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (18 Credits)

MC 309 Reporting (3)

MC 310 Copy Editing (3)

MC 320 Layout and Typography (3)

MC 330 Photojournalism (3)

MC 405 Computer Assisted Reporting (3)

MC 406 Feature Writing (3)

EMPHASIS IN PUBLIC RELATIONS (60 Credits)**Core Requirements (21 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (39 Credits)

MC 251 Desktop Video (3)

MC 301 Online Advertising, News, and PR (3)

MC 303 Advertising Principles (3)

MC 304 Public Relations Principles (3)

MC 305 Imaging in Advertising and Public Relations (3)

MC 307 Public Relations Processes (3)

MC 310 Copy Editing (3)

MC 320 Layout and Typography (3)

OR MC 330 Photojournalism (3)

MC 351 Interactive Online Communications (3)

MC 352 e-Communications (3)

MC 375 Case Studies in Organizational Public Relations (3)

MC 470 Public Relations Campaign Research (3)

MC 471 Public Relations Campaign Execution (3)

Recommended (0 Credits)

These courses are recommended, but not required.

MC 240 Radio Programming and Production (3)

MC 308 Broadcast Journalism (3)

MC 309 Reporting (3)

MC 331 Photo Editing (3)

MC 353 Audio and Visual Online Production (3)

MC 415 Gender and Media (3)

MC 427 Public Relations Fundraising (3)

MINOR IN MASS COMMUNICATIONS (27 Credits)**Requirements (12 Credits)**

MC 100 Introduction to Mass Communications (3)

MC 210 Media Writing (3)

MC 220 Desktop Publishing (3)

MC 230 Photography (3)

Restricted Electives (6 Credits)

Students must choose two courses from the following list.

- MC 300 International Communications (3)
- MC 302 History of Mass Communications (3)
- MC 400 Mass Media Ethics and Issues (3)
- MC 401 Communications Law (3)

Electives (9 Credits)

Students must choose nine credits of Mass Communications electives.

B.A. DEGREE IN ENGLISH AND MASS COMMUNICATIONS (69 Credits)**Requirements (37 Credits)**

- ENGL 211 Major British Writers I (4)
- ENGL 212 Major British Writers II (4)
- ENGL 371 Survey of American Literature I (4)
- ENGL 372 Survey of American Literature II (4)
- MC 100 Introduction to Mass Communications (3)
- MC 210 Media Writing (3)
- MC 220 Desktop Publishing (3)
- MC 230 Photography (3)
- MC 300 International Communications (3)
- OR** MC 302 History of Mass Communications (3)
- MC 400 Mass Media Ethics and Issues (3)
- MC 401 Communications Law (3)

Restricted Electives (13 Credits)

Students must choose ten credits from the listed English courses and must also choose a three credit mass communications course from those listed.

- ENGL 285 Scriptwriting (4)
- ENGL 286 Practical Writing (3)
- ENGL 288 Introduction to Creative Writing (3)
- ENGL 354 Non Fiction Writing (3)
- ENGL 387 Technical Report Writing (4)
- ENGL 388 Creative Writing (3)
- ENGL 395 Theory and Methods of Tutoring (3)
- ENGL 487 Advanced Technical Report Writing (4)
- MC 306 Advertising Copywriting (3)
- OR** MC 307 Public Relations Processes (3)
- OR** MC 308 Broadcast Journalism (3)
- OR** MC 309 Reporting (3)

Electives (19 Credits)

Students must take 10 elective credits in English courses and 9 elective credits in Mass Communications courses. At least nine of the English elective credits must be at the 300 level or above. Further, at least one course must be in American literature and at least one course must be in British literature. The English electives should be chosen in close consultation with an advisor from the English department. The Mass Communications electives must also be chosen in close consultation with a faculty advisor in the Mass Communications department.

Mathematics**Mathematics Department**

Science Lab 003, (218) 477-2274

Chair: James Hatzenbuehler

Faculty: Sayel Ali, Wayne Chen, Sidney J. Drouilhet, Timothy Harms, Ellen Hill, Justin James, Kristine Montis, Lian Ng, Timothy Peil, Barbara Rath, Dennis Rhoads, Derald Rothmann, Walter Sizer, Jerome Stockrahm, Ariyaratna Wijetunga, Vernon Wolff.

The Bachelor of Arts (B.A.) degree in mathematics is designed to prepare students to enter graduate school in mathematics or other disciplines that require a strong background in mathematics. This degree is also appropriate for students seeking a solid liberal arts degree that will enable them to be successful in a wide variety of careers.

The Bachelor of Science (B.S.) degree in mathematics is a professional degree with three different emphases:

Teaching Emphasis

This emphasis is for students who intend to teach mathematics at the middle school or high school level. In addition to the requirements in the Mathematics Department, students must complete the "Professional Education Sequence" of courses required for Teaching Licensure.

Computational Emphasis

This emphasis is for students who wish to prepare themselves for industrial careers that involve problem solving using computer technology.

Actuarial Science Emphasis

This emphasis will help prepare students to become actuaries. The professional services of actuaries are needed in areas of insurance and employee benefit programs. Actuaries are required to have an understanding of the mathematical structure underlying insurance and pensions, and thus must have a strong background in mathematics, statistics and business.

Students who major in mathematics often declare a minor in a second field such as biology, chemistry, physics, computer science, or business. Minors in mathematics are available to complement any major.

MATHEMATICS PLACEMENT EXAM

Minnesota State University Moorhead requires each student (except those who enter with a two year degree) to complete a college level mathematics course prior to graduation. Many major areas include specific mathematics requirements as well. But in recent years increasing numbers of students have struggled in entry-level courses. The Mathematics

Department at MSUM is committed to increasing student success. Accordingly, the following steps have been implemented:

- Entering freshmen are required to complete a 30 minute Intermediate Algebra Skills Test (except for those with ACT mathematics scores of 24 or higher or equivalent scores on other entrance exams);
- Students will be allowed to register for appropriate mathematics courses based on the results of this test;
- Students whose placement score indicates the need for Introductory (Elementary) Algebra are required to take M0090, Introductory Algebra, through the Gateway Program prior to entering college-level mathematics courses. See the Gateway Program director for registration procedures.
- Students whose placement score indicates the need for Intermediate Algebra are required to take PDEV 100, Intermediate Algebra – described in another section of this bulletin, prior to entering college-level mathematics courses.

This practice is consistent with that of other area universities and is aimed at placing students in courses where they have a reasonable chance of success. Students who complete a developmental course successfully should then have a sufficiently strong background to succeed in subsequent college-level courses.

STUDENT LEARNING OUTCOMES

Students should:

- understand the theory and applications of calculus and linear algebra;
- develop the capacity for rigorous analytical thought and the ability to communicate ideas in a precise manner;
- possess an awareness of the abstract nature of theoretical mathematics and the ability to write proofs;
- possess an understanding of the breadth of the mathematical sciences and their deep inter-connecting principles;
- be able to solve multi-step problems and perform complex tasks;
- develop the ability to detect basic mathematical structures (patterns) and make generalizations from them.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN MATHEMATICS (44 Credits)

Requirements (28 Credits)

All majors must complete the ETS Major Field Test in Mathematics.

- MATH 260 Computer Calculus (1)
- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- MATH 323 Multi-Variable and Vector Calculus (4)
- MATH 327 Introduction to Linear Algebra (3)
- MATH 361 Intermediate Analysis I (4)
- MATH 362 Intermediate Analysis II (3)
- MATH 476 Abstract Algebra I (4)
- MATH 491 Seminar: Mathematics (1-2)

Restricted Electives (12 Credits)

Students must take twelve credits of electives in mathematics. All electives must be at the 300 level or higher. MATH 303, 304, 306, 316, 401, 406, 416, and 486 may not be counted among the twelve required electives.

Related Requirements (4 Credits)

- CSIS 152 Introduction to Computers and Programming I (4)

MINOR IN MATHEMATICS (25 Credits)

Requirements (13 Credits)

- MATH 260 Computer Calculus (1)
- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- MATH 323 Multi-Variable and Vector Calculus (4)

Restricted Electives (12 Credits)

Students must take twelve credits of electives in mathematics. These electives must be at the 300 level or higher and may not include MATH 303, 304, 306, 316, 401, 406, and 416.

B.S. DEGREE IN MATHEMATICS (51-75 Credits)

Core Requirements (19 Credits)

All majors must complete the ETS Major Field Test in Mathematics.

- MATH 260 Computer Calculus (1)
- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- MATH 323 Multi-Variable and Vector Calculus (4)
- MATH 327 Introduction to Linear Algebra (3)
- MATH 335 Intermediate Probability and Statistics I (3)

EMPHASIS IN ACTUARIAL SCIENCE

(57 Credits)

Core Requirements (19 Credits)

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mathematics.

Requirements (16 Credits)

MATH 336 Intermediate Probability and Statistics II (4)
 MATH 421 Actuarial Science I (3)
 MATH 435 Mathematical Statistics I (4)
 MATH 491 Seminar: Mathematics (1-2)
 MATH 361 Intermediate Analysis I (4)
OR MATH 450 Numerical Analysis I (4)

Related Requirements (22 Credits)

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 CSIS 152 Introduction to Computers and Programming I (4)
 ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 FINC 340 Financial Management (3)
 FINC 360 Principles of Investment (3)

EMPHASIS IN COMPUTATION (51 Credits)**Core Requirements (19 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mathematics.

Requirements (15 Credits)

MATH 355 Mathematical Modeling (3)
 MATH 361 Intermediate Analysis I (4)
OR MATH 435 Mathematical Statistics I (4)
 MATH 366 Differential Equations (3)
 MATH 450 Numerical Analysis I (4)
 MATH 491 Seminar: Mathematics (1-2)

Restricted Electives (3 Credits)

Students must take three credits in mathematics at the level of MATH 300 or higher and may not include MATH 303, 304, 306, 316, 401, 406, 416, and 486.

Related Requirements (14 Credits)

Students must take fourteen credits of approved Computer Science and Information Systems courses which include the following courses:
 CSIS 152 Introduction to Computers and Programming I (4)
 CSIS 252 Introduction to Computers and Programming II (4)
 CSIS 335 Graphical User Interface Programming (3)

EMPHASIS IN TEACHING (75 Credits)**Core Requirements (19 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mathematics.

Requirements (20 Credits)

Students in this emphasis must fulfill all teacher licensure requirements which will add thirty-three credits to the major.

MATH 316 Teaching Mathematics in the Middle Grades (3)

MATH 361 Intermediate Analysis I (4)
 MATH 385 Foundations of Geometry (3)
 MATH 416 Mathematics in the Secondary School (3)
 MATH 476 Abstract Algebra I (4)
 MATH 486 History of Mathematics (3)

Restricted Electives (3 Credits)

Students must take three elective credits in mathematics. These electives must be at the 300 level or higher and may not include MATH 303, 304, 306, 401, and 406.

MINOR IN MATHEMATICS EDUCATION (25 Credits)**Requirements (19 Credits)**

MATH 260 Computer Calculus (1)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 316 Teaching Mathematics in the Middle Grades (3)
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 416 Mathematics in the Secondary School (3)

Restricted Electives (6 Credits)

Students must take two of the following three courses.
 MATH 327 Introduction to Linear Algebra (3)
 MATH 335 Intermediate Probability and Statistics I (3)
 MATH 385 Foundations of Geometry (3)

MINOR IN MATHEMATICS: ELEMENTARY EDUCATION MAJOR (20-23 Credits)**Requirements (14-15 Credits)**

This minor does not satisfy State of Minnesota licensure requirements. It may provide an opportunity for licensure in other states. This minor is a concentration for Elementary Education majors.
 MATH 303, 304, and 406 are part of the elementary education major and, thus, these courses are not listed among the requirements for this minor.
 MATH 316 Teaching Mathematics in the Middle Grades (3)
 MATH 236 Applied Statistics (4)
OR MATH 335 Intermediate Probability and Statistics I (3)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)

Restricted Electives (6-8 Credits)

Students must take two of the three courses listed. Students who choose MATH 323 must take MATH 260 as a co-requisite.
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 327 Introduction to Linear Algebra (3)
 MATH 385 Foundations of Geometry (3)

Medical Technology

See *Biosciences*

Multicultural Studies

See *American Multicultural Studies*

Multidisciplinary Studies

**Corrick Center for General Education
Murray Commons 206, (218) 477-2954**

Director: Dennis Jacobs

Faculty: Timothy Decker, Yahya Frederickson, Jarilyn Gess, Margaret Klindworth, Rupa Mitra, Carol Okigbo, Elizabeth Rowse, Kevin Zepper

Multidisciplinary Studies offers Liberal Studies courses to meet B.A., B.S., and A.A. graduation requirements. See the Admissions Section of this *Bulletin* for information on the Corrick Center for General Education.

STUDENT LEARNING OUTCOMES

Students will:

- demonstrate fluency in reading, writing, and mathematical problem solving;
- demonstrate critical thinking;
- demonstrate understanding of knowledge from historical perspectives;
- demonstrate awareness of ecological concerns;
- demonstrate an understanding of cultural diversity.

Music

Music Department

Roland Dille Center for the Arts 102, (218) 477-2101

Chair: Thomas Strait

Faculty: Laurie Blunsom, Allen Carter, Toby Curtright, Nathan Davis, Jenny Dufault, Glenn Ginn, Henry Gwiazda, Ryan Jackson, Terrie Manno, Michael Missiras, Kirk Moss, Paul Nesheim, Daniel Phillips, Alan Rawson, Rodney Rothlisberger, Simon Rowe, John Tesch, Kenyon Williams

Degree Programs

The Bachelor of Music, Bachelor of Arts, and the Bachelor of Science are the degrees awarded in Music.

The Bachelor of Arts with a major in music is designed for the student who seeks a general focus on music within a broadly based liberal arts framework. It is a flexible degree allowing a variety of interest concentrations. It is sometimes combined with a major in another area such as English, History, or Psychology.

The Bachelor of Music degree with a major in Performance or Composition begins to prepare students for professional careers or graduate study. Students choose one of the performance options: keyboard, voice, wind instrument, stringed instrument, percussion, or composition. In all options except composition, students may elect an emphasis in Jazz and Studio Music.

The Bachelor of Music with a major in Music Industry provides exposure to some broad career areas of the music industry such as marketing, management, merchandising, audio production, computer applications, and entertainment and media arts. Students choose one of the four emphases for this major: Music Business, Computer Music, Digital Imaging/Audio, or Film/Video Music.

The Bachelor of Science degree with a major in Music Education is designed for the student who will pursue a career in public school teaching. Students specialize in vocal or instrumental music education.

New Students

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 music programs in other institutions will be evaluated upon entrance for advanced placement in their chosen degree program

PERFORMANCE AND PROFICIENCY REQUIREMENTS

Primary Performance Medium

All music major programs require students to choose a primary performance medium. The number of required credits of performance study with this medium and the level of proficiency to attain varies with each program.

Secondary Performance Medium

The Composition major, Keyboard Performance major, and Music Industry major must also study a secondary performance area for completion of their program. For Composition majors and Music Industry majors, piano will be either the primary or secondary performance area.

Piano Performance Study

All major programs have a requirement for piano study. The number of required credits and level of proficiency to attain varies with each program. Upon entry to the music program, students are evaluated and placed in a piano course appropriate to their skill level. Credits for Class Piano I and II (MUS 150A and MUS 150B) do not count as piano performance study. Credits for Class Piano III and IV (MUS 150C and MUS 150D and MUS 151) are counted toward piano performance requirements.

Piano Proficiency

All Bachelor of Science in Music Education majors are required to pass a piano proficiency examination demonstrating prescribed keyboard skills. These examinations are offered at the end of each semester. Students usually take the exam after two years of piano performance study. Once the Piano Proficiency is passed, any remaining Piano Performance requirements may be waived. Bachelor of Music in Music Industry majors must pass MUS 151 (Basic Commercial Keyboard) in fulfillment of the piano proficient requirements. Piano proficiency requirements for other music degrees vary with each degree.

Guitar Proficiency

All Music Education majors are required to pass a proficiency exam demonstrating basic guitar techniques. Successful completion of the course MUS 236, Guitar for General Music, will satisfy the proficiency. Students with prior guitar experience may wish to be tested individually and be exempt from the class requirement.

Upper-Level Performance Study

Performance and composition study areas indicate levels of proficiency through the course numbers. The 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. The course levels do not necessarily correspond with the year of enrollment. The Performance Study instructors have guidelines suggesting appropriate literature and skills for each level.

Advancement to the upper-division level is required for students in the Performance, Composition, and Music Education programs and must be attained prior to presenting any recital required by the program. Enrollment in upper-division levels is allowed after a jury evaluation and recommendation. These evaluations take place at specified times each semester. Performance majors usually apply for upper-division level after fall semester of the sophomore year. Composition and Music Education majors normally

apply after spring semester of the sophomore year. The jury may deny advancement to upper-division level and recommend further study after which the student may reapply for upper-division status.

Recitals

Bachelor of Music Performance majors are required to present two recitals in their primary performance area - 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 work during the senior year. Bachelor of Science Music Education majors are required to present a half recital in their primary performance area normally given during the student's senior year.

All recitals are prepared with the help of the applied instructor. Procedures for presenting recitals are available in the Music Department Office.

Lesson Fees

There is a fee charged for Performance Study, Composition, and Recital credits. This is in addition to the tuition fee.

Ensemble Participation

It is assumed that music majors will participate in an ensemble every semester until all the requirements for their music program have been completed.

Grade Policy

Students must earn a grade of "C-" or better in any course which is a part of the required curriculum for their major program including the related requirements that are not music courses.

Concert and Convocation Attendance Requirement

All full-time music majors are required to attend a certain number of concerts or recitals and departmental convocations per semester.

STUDENT LEARNING OUTCOMES

Performance: Students must develop:

- technical skills requisite for artistic self-expression at the level appropriate for the particular music concentration;
- the ability to read at sight with fluency;
- rehearsal and conducting skills sufficient to work as a leader and in collaboration on matters of musical interpretation.

Aural Skills, Analysis, Composition: Students must develop:

- an understanding of the common elements and organizational patterns of music and their interaction, and the ability to employ this understanding in aural, verbal, and visual analyses;

- sufficient knowledge of musical forms, processes, and structures to use this knowledge in compositional, performance, scholarly, pedagogical, and historical contexts, according to the requisites of their specializations;
- the ability to place music in historical, cultural, and stylistic contexts.

Composition and Improvisation: Students must develop:

- composition and improvisation skills beyond traditional exercises in beginning theory.

Repertory and History: Students must have:

- opportunities through performance and academic studies to work with music of diverse cultural sources, historical periods, and media;
- exposure to a large and varied body of music through attendance at recitals, concerts, operas, and other performances.

Technology: Through study and laboratory experience, students should be:

- familiar with the capabilities of technology as they relate to composition, performance, analysis, teaching, and research.

Synthesis: While synthesis is a lifetime process, by the end of undergraduate study students should be:

- working independently on a variety of musical problems by combining their capabilities in performance; aural, verbal and visual analysis; composition and improvisation; and repertory and history;
- forming and defending value judgments about music;
- acquiring the tools to work with a comprehensive repertory, including music from various cultures of the world and music of their own time;
- understanding basic interrelationships and interdependencies among the various professions and activities that constitute the musical enterprise.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all the requirements as indicated for each degree typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

CORE REQUIREMENTS IN MUSIC (28 Credits)

This common core of courses is required for all baccalaureate degrees in Music.

- MUS 107 Theory and Ear Training I (3)
- MUS 108 Theory and Ear Training II (3)
- MUS 207 Theory and Ear Training III (3)
- MUS 208 Theory and Ear Training IV (3)
- MUS 209 Survey of Non-Western Music (2)
- MUS 300 Conducting and Instrumentation (2)
- MUS 303 Western Traditions to 1750 (3)
- MUS 304 Western Traditions: 1750-1900 (3)
- MUS 305 Western Traditions since 1900 (3)
- MUS 307 Theory and Ear Training V (3)

B.A. DEGREE MAJOR IN MUSIC (67-68 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (15-16 Credits)

In addition to the courses listed, students must earn six credits in ensemble and six credits in performance study, two credits of which must be at the 200 level or above. At least one credit must be piano performance or Class Piano III. All students must pass a piano proficiency exam.

- MUS 240 American Music (3)
- OR MUS 342 History of Rock/Pop Music (2)
- OR MUS 343 Jazz History (2)
- MUS 391 Writing Seminar in Music (1)

Restricted Electives (3 Credits)

Students must earn at least three credits in Music electives (any course with a MUS rubric).

Related Requirements (21 Credits)

Students must earn at least twenty-one credits in courses with a liberal arts focus in addition to the requirements of the MSUM Liberal Studies program and the previously listed BA requirements and electives. These courses can be selected from University designated Liberal Studies courses and/or from other courses approved by the Music department. A list of acceptable courses is maintained in the Music department.

B.M. DEGREE MAJOR IN MUSIC INDUSTRY (78-82 Credits)

EMPHASIS IN MUSIC BUSINESS (79-80 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (31-32 Credits)

In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or higher; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. A minimum of three credits of internship (MUS 469) are to be earned. Since the internship component for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 365 Practicum (1)

MUS 381 Audio Production I (3)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

Restricted Electives (5 Credits)

Students must earn five credits from the following list.

MUS 364 Survey of Film Music (3)

MUS 384 Concert Recording and Sound Reinforcement (2)

MUS 481 Audio Production II (2)

MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)

MUS 485 Projects in Audio Production (1-2)

Related Requirements (15 Credits)

ACCT 230 Principles of Accounting I (3)

ACCT 231 Principles of Accounting II (3)

MGMT 360 Principles of Management (3)

MKTG 310 Principles of Marketing (3)

MGMT 405 Small Business Management (3)

OR MKTG 423 Marketing Communications (3)

EMPHASIS IN COMPUTER MUSIC**(78-79 Credits)****Core Requirements (28 Credits)**

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (36-37 Credits)

In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or above; and two credits in a secondary

performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. A minimum of three credits of internship (MUS 469) and one credit of MUS 486 are to be earned. Since the internship component for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 365 Practicum (1)

MUS 382 Digital Audio I (3)

MUS 384 Concert Recording and Sound Reinforcement (2)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

MUS 482 Digital Audio II (2)

MUS 486 Projects in Synthesis (1-2)

Related Requirements (14 Credits)

CSIS 152 Introduction to Computers and Programming I (4)

CSIS 252 Introduction to Computers and Programming II (4)

CSIS 257 Object-Oriented Software Development (3)

OR CSIS 345 Analysis and Design of Information Systems (3)

CSIS 360 UNIX Programming and Development Tools (3)

EMPHASIS IN AUDIO PRODUCTION AND DIGITAL IMAGING/MULTIMEDIA**(78-79 Credits)****Core Requirements (28 Credits)**

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (37-38 Credits)

In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or above; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. At least three credits of internship (MUS 469) and at least one credit of MUS 485 are to be earned. Music majors must take MUS 108 as a prerequisite

for MUS 381 and 382. Non-music majors must take MUS 110 or 111 or 218 as a prerequisite for MUS 381 and 382. Since the internship component for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 365 Practicum (1)

MUS 381 Audio Production I (3)

MUS 382 Digital Audio I (3)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

MUS 481 Audio Production II (2)

MUS 485 Projects in Audio Production (1-2)

Related Requirements (13 Credits)

All students must take CSIS 152 and choose appropriate courses from the list below depending on their interest. Students who pursue an interest in Digital Imaging must take GCOM 255 and 355 and one course chosen from GCOM 366, 368, 455 and 457. Students with an interest in Multimedia must take GCOM 266, 366, and 368.

CSIS 152 Introduction to Computers and Programming I (4)

GCOM 255 Beginning Computer Graphics (3)

GCOM 266 Introduction to Multimedia (3)

GCOM 355 Intermediate Computer Graphics (3)

GCOM 366 Web Authoring with Dreamweaver (3)

GCOM 368 Multimedia Authoring with Flash (3)

GCOM 455 Advanced Computer Graphics (3)

GCOM 457 Digital Prepress (3)

EMPHASIS IN FILM/VIDEO MUSIC (81-82 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed as "Core Requirements in Music."

Requirements (37-38 Credits)

In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or above; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. A minimum of three credits of internship (MUS 469) are to be earned. Since the internship component

for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 363 Music for Film and Multimedia (3)

MUS 364 Survey of Film Music (3)

MUS 365 Practicum (1)

MUS 381 Audio Production I (3)

MUS 382 Digital Audio I (3)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

Related Requirements (16 Credits)

CSIS 152 Introduction to Computers and Programming I (4)

FILM 272 Video Production (3)

FILM 284 Beginning Filmmaking (3)

FILM 384 Techniques of Film Directing (3)

FILM 484 Sixteen Millimeter Film Production (3)

B.M. DEGREE MAJOR IN MUSIC PERFORMANCE (83-92 Credits)

OPTION IN COMPOSITION (83-84 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed as "Core Requirements in Music."

Requirements (51-52 Credits)

In addition to the courses listed, students must earn six credits in ensembles; sixteen credits in composition courses, at least six of which must be at the 300 level or above; eight credits of performance study in the primary performance area and three credits of performance study in a secondary area. Either the primary or secondary performance area must be piano. Class Piano III and IV may be counted as piano performance study. A piano proficiency exam must be passed.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 375 Instr Conducting (2)

MUS 377 Choral Conducting (2)

MUS 381 Audio Production I (3)

MUS 382 Digital Audio I (3)

MUS 391 Writing Seminar in Music (1)

MUS 450 Student Recital (1)

MUS 471 Orchestration (2)

MUS 482 Digital Audio II (2)

Restricted Electives (4 Credits)

Students must earn four credits of music electives. These credits cannot be in composition study. One credit can be an additional ensemble.

OPTION IN JAZZ AND STUDIO MUSIC (83 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (51 Credits)

In addition to the courses listed, students must earn sixteen credits of performance study on the principal instrument, at least twelve of which must be at the 300 level or above; one credit of piano performance study or Class Piano III; eight credits of large instrumental ensemble; and four credits in small instrumental ensemble. Four credits of MUS 472 are required, and two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 250 Jazz Improvisation (1)
 MUS 252 Advanced Jazz Improvisation (2)
 MUS 278 Jazz Theory (2)
 MUS 343 Jazz History (2)
 MUS 351 Commercial Keyboards (1)
 MUS 381 Audio Production I (3)
 MUS 391 Writing Seminar in Music (1)
 MUS 433 Jazz Pedagogy (2)
 MUS 450 Student Recital (1)
 MUS 472 Instrumental Arranging (2)
 MUS 481 Audio Production II (2)

Restricted Electives (4 Credits)

Students must choose four credits from the listed courses. Any student who wishes to repeat MUS 484, 485, or 486 must first obtain the permission of the department chair.

MUS 240 American Music (3)
 MUS 342 History of Rock/Pop Music (2)
 MUS 364 Survey of Film Music (3)
 MUS 382 Digital Audio I (3)
 MUS 482 Digital Audio II (2)
 MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)
 MUS 485 Projects in Audio Production (1-2)
 MUS 486 Projects in Synthesis (1-2)

OPTION IN KEYBOARD PERFORMANCE (83-84 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (43-44 Credits)

In addition to the courses listed, students must earn eighteen credits of performance study on the principal keyboard instrument, twelve of which must be at the 300 level or above; one credit of secondary keyboard performance study; four credits of non-keyboard performance study; and ten credits of ensemble or accompanying, with no more than six credits in either area. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 240 American Music (3)
 OR MUS 342 History of Rock/Pop Music (2)
 OR MUS 343 Jazz History (2)
 MUS 375 Instr Conducting (2)
 OR MUS 377 Choral Conducting (2)
 MUS 391 Writing Seminar in Music (1)
 MUS 431A Keyboard Pedagogy I (2)
 MUS 431B Keyboard Pedagogy II (1)
 MUS 450 Student Recital (1)

Restricted Electives (12 Credits)

Students must earn four credits in music electives with non-performance focus, but related to the principle instrument and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must earn five credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). The remaining three credits cannot be performance study or ensemble with the principle instrument.

OPTION IN VOICE PERFORMANCE (91-92 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (42-43 Credits)

In addition to the courses listed, students must earn eighteen credits of voice performance study, twelve of which must be at the 300 level or above; four credits of piano performance study which may include Class Piano III and/or IV; and eleven credits of ensemble, seven of which involve large ensembles, one with small ensemble, and three with unrestricted ensembles. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 191 Diction (2)
 MUS 240 American Music (3)
 OR MUS 342 History of Rock/Pop Music (2)
 OR MUS 343 Jazz History (2)
 MUS 377 Choral Conducting (2)
 MUS 391 Writing Seminar in Music (1)
 MUS 450 Student Recital (1)

Restricted Electives (13 Credits)

Students must earn four credits in music electives with non-performance focus, but related to the voice and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must earn six credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). The remaining three credits cannot be voice performance study or vocal ensemble.

Related Requirements (8 Credits)

Students must take one year of a foreign language, or demonstrate competency at the first year level.

OPTION IN WIND INSTRUMENT, STRING INSTRUMENT, OR PERCUSSION PERFORMANCE (83-84 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed as "Core Requirements in Music."

Requirements (41-42 Credits)

In addition to the courses listed, students must earn eighteen credits of performance study on the principal instrument, twelve of which must be at the 300 level or above; four credits of piano performance study which may include Class Piano III and/or IV; and twelve credits of ensemble, eight of which are large ensembles, one with small ensemble, and three with unrestricted ensembles. Two credits of MUS 450 are required. A piano proficiency exam must be passed. MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 375 Instr Conducting (2)

MUS 391 Writing Seminar in Music (1)

MUS 450 Student Recital (1)

Restricted Electives (14 Credits)

Students must earn five credits in music electives with non-performance focus, but related to the principal instrument and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must earn six credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). The remaining three credits cannot be performance study or ensemble with the principal instrument.

B.S. DEGREE MAJOR IN MUSIC EDUCATION (97-101 Credits)**OPTION IN INSTRUMENTAL MUSIC EDUCATION (97 Credits)****Core Requirements (28 Credits)**

Students must complete the courses listed as "Core Requirements in Music."

Requirements (35 Credits)

Students in this major must pass piano and guitar proficiency exams and present a recital. A student teaching qualifying exam, taken the semester prior to application to student teaching, must be passed before a student teaching assignment is arranged. Due to the student teaching internship and state-mandated licensure components for this degree, there are more credits required than the 128 ordinarily needed for a Bachelor's of Science degree. Usually students will need one semester beyond four years or enrollment in one or more summer sessions to complete this degree. In addition to the courses listed, students must earn twelve credits of performance study on the principal instrument, two of which must be at the 300 level or above; two credits of piano performance study which may include Class Piano III and/or IV; and seven credits of instrumental ensemble, two credits minimum for large ensembles and two credits minimum for small ensembles. Students must also earn one credit in an independent study course or a music topics course related to Music Education. MUS 231 Methods for Teaching Woodwinds I (1) MUS 232 Methods for Teaching Woodwinds II (1) MUS 233 Methods for Teaching Brass Instruments (1) MUS 234 Methods for Teaching String Instruments (1) MUS 235 Methods for Teaching Percussion (1) MUS 236 Guitar for General Music (1) MUS 333 Teaching General Music K-12 (3) MUS 335 Organization of the Instrumental Music Program (1) MUS 375 Instr Conducting (2) MUS 450 Student Recital (1)

Restricted Electives (1 Credit)

Students must earn one credit in additional instrumental techniques study. This is arranged as a special secondary performance study credit on an instrument from one of the methods classes.

Related Requirements (33 Credits)

Students must meet all teacher licensure requirements for this major.

OPTION IN VOCAL MUSIC EDUCATION (101 Credits)**Core Requirements (28 Credits)**

Students must complete the courses listed as "Core Requirements in Music."

Requirements (32 Credits)

Students in this major must pass piano and guitar proficiency exams and present a recital. A student teaching qualifying exam, taken the semester prior to application to student teaching, must be passed before a student teaching assignment is arranged. Due to the student teaching internship and state-mandated

licensure components for this degree, there are more credits required than the 128 ordinarily needed for a Bachelor's of Science degree. Usually students will need one semester beyond four years or enrollment in one or more summer sessions to complete this degree. In addition to the courses listed, students must earn nine credits of voice performance study, two of which must be at the 300 level or above; four credits of piano performance study which may include Class Piano III and/or IV; and seven credits of vocal ensemble. Students must also earn one credit in an independent study course or a music topics course related to Music Education. Students must enroll for one credit of vocal performance study each semester that they have full-time status, and register for two credits during the semester that they perform their recital. Students must participate in a vocal ensemble each semester that they have full-time status, with the exception of the semester in which they do their student teaching.

MUS 191 Diction (2)

MUS 236 Guitar for General Music (1)

MUS 333 Teaching General Music K-12 (3)

MUS 334 Secondary School Choral Methods (2)

MUS 377 Choral Conducting (2)

MUS 450 Student Recital (1)

Restricted Electives (4 Credits)

Students must complete four credits in this section. In addition to the course choices listed, a maximum of two credits of the Opera Workshop are allowed (MUS 329A-H or MUS 421; these credits are in addition to the seven credits of required ensemble).

MUS 432 Voice Pedagogy (2)

MUS 440 Music Literature: Solo Song (2)

MUS 442 Music Literature: Choral (2)

Related Requirements (37 Credits)

Students must complete at least one semester of foreign language study (4 credits). Students must meet all teacher licensure requirements for this major.

MINOR IN MUSIC (24 Credits)

Requirements (16 Credits)

In addition to the courses listed, students must earn four credits of ensemble and four credits of performance study, one of which must be at the 200 level or above. At least one credit of performance study, one credit of ensemble, and two credits from the required or elective credits listed below (or an approved substitute) must be taken at MSUM. All students must pass a piano proficiency exam.

MUS 110 Musicianship for Non-Majors (2)

MUS 111 The Art of Listening (3)

MUS 210 Survey of Western Music (3)

Restricted Electives (8 Credits)

Students must complete one of the courses listed. The remaining five credits can be chosen from any course with a MUS rubric.

MUS 215 History of Jazz (3)

MUS 216 World Music Survey (3)

MUS 217 Pop/Rock Music for Non-Majors (3)

MUS 240 American Music (3)

Nursing

Nursing Department

Murray Commons, (218) 477-2693

Director: Barbara Matthees

Faculty: Jane Bergland, Jane Giedt, Helen Harris, Donna Heald, Jean Robley, Carolyn Townsend, Barbara Vellenga

The mission of the nursing department is to provide professional nursing education, to advance the knowledge of the discipline and to serve as a resource for health care needs of society.

The nursing program offers a Bachelor of Science Degree in Nursing (BSN). The program has two tracks including a pre-licensure track for students with no nursing background and an RN to BSN track for RN's who want to obtain a BSN.

MSUM nursing also offers the Master's of Science in Nursing through the Tri-College University Nursing Consortium (TCU-NC). More information is available at: www.tri-college.org/trinursing.

Pre-licensure Track: (120 Credits)

B.S.N in Nursing

This 8 semester program will begin fall, 2005.

Students admitted each fall semester must progress through the program in 8 consecutive semesters, including summer semesters, completing all requirements in 3 academic years. This track will focus on care of clients throughout the lifespan and will focus on the wellness-illness continuum. At the completion of the program students will be prepared to take the national examination (NCLEX) to become a registered nurse.

Competitive admission is based on the following admission criteria:

- Admission to Minnesota State University Moorhead.
- Minimum cumulative high school and or college GPA of 3.0.
- High school or introductory college-level biology and chemistry.
- Two letters of reference from teachers, counselors or employers.

- Prior education and life experience may be considered.
- Preferred ACT score of 24 or preferred SAT score of 1100.
- Possible personal interview.
- Additional consideration may be given to MSUM students.

Upper Division BSN Completion Track: (30 credits)

This track is designed for currently registered nurses to complete requirements for a bachelor's degree in nursing. All courses in the major are delivered online and the student must have daily access to the World Wide Web. All courses transferred in to meet major or liberal studies requirements will be reviewed by faculty advisors.

Admission Requirements

- Admission to Minnesota State University Moorhead.
- Minimum cumulative post-high school GPA of 2.75.
- Active RN license or eligible to take NCLEX examination.
- 21 credits of liberal studies completed.

Graduation requires the successful completion of 120 credits. This includes 40 upper-division credits (at least 30 of these are nursing), 45 liberal studies credits, lower division nursing credits and elective credits. Credit for previous coursework may also be given.

STUDENT LEARNING OUTCOMES

At the completion of the baccalaureate curriculum, graduates are expected to:

- The graduate integrates concepts from the arts, humanities and sciences with nursing science as a basis for evidence-based professional nursing practice.
- The graduate communicates clearly and effectively.
- The graduate applies critical thinking skills in deliberative decision-making.
- The graduate provides holistic nursing care in increasingly complex situations in diverse settings.
- The graduate provides ethical nursing practice that respects the uniqueness and worth of the individual.
- The graduate designs, manages and coordinates nursing care within the context of local, national and international perspectives.
- The graduate demonstrates the knowledge and skills to continue intra and interpersonal role development of the professional nurse.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

BSN GENERIC PRELICENSURE PROGRAM IN NURSING (102 Credits)

Requirements (66 Credits)

Students in this track do not yet hold the RN license. The liberal studies requirements and nursing coursework are coordinated with advisor to assure timely continuation.

- NURS 110L Introduction to Professional Nursing (4)
- NURS 112 The Professional Nurse of the Future (2)
- NURS 120 Adult Health I (4)
- NURS 120L Clinical Nursing I (3)
- NURS 220L Family Nursing I (4)
- NURS 225 Nursing Pharmacology (3)
- NURS 230L Family Nursing II (4)
- NURS 240 Adult Health II (3)
- NURS 240L Clinical Nursing II (2)
- NURS 340L Psychiatric Nursing: Contemporary Practice (4)
- NURS 347 Transcultural Nursing (3)
- NURS 348L Public Health Nursing (4)
- NURS 350 Applied Pathophysiology (4)
- NURS 360L Designing and Managing Nursing Care (2)
- NURS 420 Gerontological Nursing (2)
- NURS 430 Research in Nursing (3)
- NURS 465L Clinical Nursing III (3)
- NURS 470 Leadership and Professional Issues (2)
- NURS 474 Nursing Preceptorship Seminar (1)
- NURS 475L Nursing Preceptorship (4)

Related Requirements (36 Credits)

- BIOL 125 Human Anatomy and Physiology I (3)
- BIOL 126 Human Anatomy and Physiology II (3)
- BIOL 236 Introduction to Microbiology (3)
- CHEM 212 Principles of Biochemistry (4)
- CMST 100 Speech Communication (3)
- ENGL 101 Composition and Literature I (4)
- ENGL 102 Composition and Literature II (4)
- HLTH 305 Introduction to Nutrition (3)
- PSY 113 General Psychology (3)
- PSY 202 Developmental Psychology (3)
- SOC 110 Introduction to Sociology (3)

BSN IN NURSING-UPPER DIVISION COMPLETION PROGRAM (30 Credits)

Requirements (30 Credits)

Students in this track must hold the RN license.

- NURS 302 Bridge to BSN Education (3)
- NURS 303L Family Health Nursing (4)
- NURS 347 Transcultural Nursing (3)
- NURS 348L Public Health Nursing (4)
- NURS 350 Applied Pathophysiology (4)
- NURS 420 Gerontological Nursing (2)
- NURS 430 Research in Nursing (3)
- NURS 470 Leadership and Professional Issues (2)
- NURS 474 Nursing Preceptorship Seminar (1)
- NURS 475L Nursing Preceptorship (4)

Operations Management

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Ronald Williams

Program Coordinator: Wade Swenson

The Operations Management (2+2) B.S. Degree is specifically designed for transfer students who have earned an Associate of Applied Science degree or an Associate of Science degree from an accredited institution in a field of study related to Industrial Technology. The technical courses of the AAS Degree coupled with the upper division technical management courses provide the Operations Management graduate with a unique advantage in today's job market. This "Fast Track" BS degree is appropriate for recent technical college graduates as well as persons in the incumbent workforce seeking an applied educational experience to enhance their competitive advantage.

Students identifying Operations Management as their intended major at Minnesota State University Moorhead may transfer up to 48 technical area credits. A minimum of 30 credits will be applied to the technical portion of the OM major. Any remaining technical area credits may be transferred and designated as "free electives" counting toward graduation requirements. The AAS degree transfer may not exceed 64 semester hours including 16 to 22 semester hours in Liberal Studies. All university graduation requirements apply for the 2+2 transfer degree. The program is structured so that a student may complete the degree with two additional years of study. **The Operations Management 2+2 BS program, the first approved by MnSCU for block credit transfer, recognizes the technical courses as a cohesive set of courses with stated and verified educational outcomes.**

Career paths available to Industrial Technology graduates

- **Operations Managers:** Oversee a facility's workforce, materials, and equipment to meet production and shipping schedules, while maintaining product quality, plant efficiency, customer service needs, and a favorable working environment.
- **Technical Sales & Marketing:** Sell products and provide specialized knowledge and advice to customers.
- **Quality Assurance Specialists:** Coordinate the overall design and maintenance of activities related to quality issues.

- **Design Positions:** Work on design teams in varied departments from engineering, to manufacturing, to facilities depending on abilities and interests.
- **Other paths include:** Information Management, Production Management, Supply Chain Management, Purchasing, and Logistics.

STUDENT LEARNING OUTCOMES

The Operations Management degree at MSUM is accredited by the National Association for Industrial Technology (NAIT). The outcomes for the degree must at a minimum address the competencies necessary to maintain that accreditation. The Technology Department faculty meet regularly with an industrial Advisory Board to update a list of outcomes that will prepare a graduate who possesses skills and knowledge acquired through education and on-site experience.

- **Communication Skills:** The student will be able to apply oral, written, graphic, and listening skills, be able to facilitate team's efforts, and apply knowledge of visualization and CAD.
- **Information Technology Skills:** The student will be able to demonstrate computer skills appropriate for the industry, through use of word processing, databases, and spreadsheets applications, electronic data searches, and computer applications for business and industry.
- **Scientific and Technical Skills:** The student will be able to apply mathematical, and physical principals to business and industrial applications, and implement efficient scientific and technological solutions to industrial problems.
- **Manufacturing Processes and Technologies:** The student will be able to understand and apply manufacturing processes and technologies, including automation, machine tools, and electrical, electronic and fluid energy concepts and calculations. The student should also be able to interpret OSHA, NIOSH and other standards, and perform process safety evaluations and analyses.
- **Economics and Cost Estimating:** The student will be able to demonstrate skills for determining the cost advantage of different processes, and performing cost estimates. The student will also understand the costs and benefits associated with production concepts such as Just-In-Time and Total Quality Management.
- **Work Environment Design and Improvement:** The student will understand the techniques and methods for systematic improvement of the work environment, including value-added activities, work physiology, systematic facility design, and safety program implementation.

- **Total Quality Management:** The student will understand the implication of TQM on the local and national economy, methods and procedures for planning, organizing and controlling for quality, statistical methods for quality control, and the application of quality tools and techniques for designing products and services.
- **Production and Inventory Management:** The student will understand the varied needs for inventory, technology and human resources in different production environments, the effect of inventory on business performance, different techniques for scheduling materials, workers, machinery, and space, and the Theory of Constraints and its usage for production scheduling. The student will also become familiar with commercial software for production and inventory management.
- **Positive Personal Habits:** The student will be able to apply appropriate management skills, demonstrate ethical actions and conduct, and exhibit involvement and contribution to the community.
- **Global and Cultural Awareness:** The student will exhibit an understanding and acceptance of human and cultural diversity, and a concern for global environment and ethical treatment of all persons.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement.

B. S. DEGREE IN OPERATIONS MANAGEMENT (60 Credits)

Core Requirements (30 Credits)

Students in this major will transfer in 30 technical credits from a technical area and complete the following core courses and a minimum of 6 credit internship.

- TECH 380 Methods Improvement (3)
- TECH 383 Cost Analysis (3)
- TECH 385 Process Leadership (3)
- TECH 394 Computer Applications for Engineers and Technologists (3)
- TECH 428 Project Management (3)
- TECH 469 Student Internship (2-12)
- TECH 482 Quality Planning and Implementation (3)
- TECH 493 Occupational Safety and Health (3)
- MGMT 360 Principles of Management (3)

Related Requirements (17 Credits)

- ACCT 230 Principles of Accounting I (3)
- ECON 202 Principles of Economics I: Micro (3)
- ENGL 387 Technical Report Writing (4)
- MATH 127 College Algebra (3)
- MATH 234 Introduction to Probability and Statistics (4)

Paralegal

Paralegal Department

Center for Business 207, (218) 477-2587

Chair: Judy Streich

Faculty: Deborah Kukowski, Larry Nordick

The Paralegal program is a professional four-year major resulting in a Bachelor of Science degree. The program is guided by an advisory group composed of university and community members. To complete the major, students must meet the requirements of the core, satisfy at least one of the four areas of emphasis, and complete at least three credits from one of the other areas of emphasis. To receive the Bachelor of Science degree in Paralegal, students must attain a minimum GPA of 2.25 in courses required to complete the Paralegal major.

STUDENT LEARNING OUTCOMES

Students should demonstrate:

- knowledge of a wide variety of substantive and procedural law, such as contracts, torts, family law, business organizations, civil and criminal litigation, bankruptcy, probate and estate planning, real property, public benefits, and administrative law;
- ability to identify and analyze legal issues;
- ability to research the law using the full range of law reference materials, including computerized legal research;
- ability to draft pleadings, legal memoranda, and briefs based on research and analysis of legal issues;
- effective oral and written communication skills;
- a full understanding of, and appreciation for, the rules of legal ethics, with emphasis on their applicability to paralegals;
- an understanding of the roles and relationships within a legal services delivery team;
- skills in obtaining information through interviewing and investigation.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN PARALEGAL (52-60 Credits)

Core Requirements (37-45 Credits)

Majors must complete the core requirements and at least one area of emphasis. This requires 12 credits from: Civil Litigation, Criminal Litigation, Commercial Law, or Probate and Tax. In addition, all majors must complete at least 3 credits from one other area of emphasis. Credits in excess of the minimum requirements are applied to general electives.

ACCT 130 Fundamentals of Accounting (3)
 ACCT 304 Legal Environment of Business (3)
 ACCT 306 Contracts and Business Entities (3)
 PARA 125 Introduction to Paralegal (3)
 PARA 250 Legal Research and Writing I (3)
 PARA 251 Legal Research and Writing II (3)
 PARA 310 Civil Procedure I (3)
 PARA 320 Family Law (3)
 PARA 325 Interviewing (3)
 PARA 375 Legal Ethics (3)
 PARA 425 Advanced Legal Research and Writing (3)
 PARA 469 Internship (4-12)

EMPHASIS IN CIVIL LITIGATION (52-60 Credits)

Core Requirements (37-45 Credits)

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

Requirements (15 Credits)

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

PARA 340 Evidence (3)
 PARA 346 Public Benefits (3)
 PARA 410 Civil Procedure II (3)
 PARA 435 Personal Injury (3)

EMPHASIS IN COMMERCIAL LAW (52-60 Credits)

Core Requirements (37-45 Credits)

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

Requirements (15 Credits)

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

ACCT 307 Commercial Transactions, Property and Special Topics (3)
 PARA 321 Employment Law (3)
 PARA 331 Debtor-Creditor and Bankruptcy Law (3)
 PARA 380 Real Property Law (3)

EMPHASIS IN CRIMINAL LITIGATION (52-60 Credits)

Core Requirements (37-45 Credits)

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

Requirements (15 Credits)

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

CJ 335 Criminal Law (3)
 CJ 337 Criminal Procedure (3)
 PARA 340 Evidence (3)
 PARA 420 Criminal Litigation (3)

EMPHASIS IN PROBATE AND TAX (52-60 Credits)

Core Requirements (37-45 Credits)

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

Requirements (15 Credits)

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

PARA 380 Real Property Law (3)
 PARA 405 Probate and Estate Planning (3)
 PARA 416 Elder Law (3)
 PARA 446 Estate, Gift and Trust Taxation (3)

Pharmacy

Chemistry Department

Science Lab 3, (218) 477-2136

Pre-Pharmacy Advisor: Craig Jasperse

MSUM offers courses that enable students interested in pharmacy as a profession to complete their first two to three years at MSUM and then apply for acceptance into the professional curriculum of any accredited school of pharmacy. Most students transfer to the University of Minnesota or to North Dakota State University to complete their pharmacy education. However, 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 pre-pharmacy advisor.

Philosophy

Philosophy Department

Bridges 359, (218) 477-2478

Chair: Theodore Gracyk

Faculty: Randy Cagle, Michelle Carpenter, Konrad Czynski, Gaile Pohlhaus, Chang-Seong Hong, Phil Mouch

The study of philosophy develops the ability to solve problems, communicate, organize ideas and issues, assess pros and cons and boil down complex data. It is a reasoned pursuit of fundamental truths, a quest for understanding, a study of principles of conduct. It

seeks to establish standards of evidence, to provide rational methods of resolving conflicts, and to create techniques for evaluating ideas and arguments. Philosophy develops the perspective of other individuals and cultures; enhances one's ability to perceive the relationships among various fields of study; and deepens one's understanding of the varieties of human experience. People trained in philosophy are prepared for many tasks—they can cope with change, or even move into new careers more easily.

Philosophy is an excellent second major or minor to accompany a major in any other discipline. The Minnesota State University Moorhead curriculum makes it possible to start a major in philosophy as late as the beginning of the junior year. Philosophy courses enhance understanding of communication and society (journalism); examine moral and legal responsibility (pre-law); and create a greater capacity for the integration of medical research and ethics (pre-med/ health professions). Courses are also available in the areas of general ethics, logic and philosophy of science (pre-engineering), and philosophy of religion (pre-seminary).

People trained in philosophy enter teaching professions (at all levels), medicine, law, computer science, management, publishing, sales, criminal justice and public relations. Most fields employ people educated in philosophy. Minnesota State University Moorhead's Philosophy Department guides students to become clear thinkers and good writers, skills valued in all professions. The generalist approach of philosophy gives graduates the ultimate in flexibility, the capability to adapt to changing ideas and technologies, and a framework of reason to guide one's personal life.

STUDENT LEARNING OUTCOMES

Reading and Understanding Philosophical Texts

Philosophy majors should be able to:

- identify the main point or points being made in the writing;
- determine the main arguments given in support of those points;
- accurately paraphrase and summarize (in their own words) materials read;

Writing Philosophical Essays

Philosophy majors should be able to:

- express ideas clearly;
- organize and structure their essays in a coherent, logical manner;
- make clear what their main thesis and arguments are;
- define important concepts clearly, and use them consistently with that definition;

- use complete, grammatically correct sentences;
- present and defend original ideas;
- use good arguments to support their conclusions;
- avoid using material that is not relevant to the issue being discussed;
- avoid inconsistency;
- recognize possible objections to their claims and arguments, and respond to such objections;
- use original examples to help clarify ideas;
- improve essays by re-writing and revision, especially in response to comments from teachers or fellow students;

Philosophical Discussion

Philosophy majors should be able to:

- keep comments directed to the issues being discussed, and avoid irrelevant material;
- show respect for others, and for their opinions;
- attempt to correctly understand the opinions of others;
- make effective and clear oral presentations;
- show willingness to change their mind in reaction to points raised in discussions;
- present arguments for their opinions;
- have confidence to express and debate ideas;
- be more concerned with finding the truth than with scoring points or impressing others.

Philosophical Knowledge

Philosophy majors should know the following:

- major figures and developments in the history of Western philosophy: particularly classical, especially Plato and Aristotle, and modern philosophy, especially Descartes and Locke;
- major subject areas in philosophy, specifically including ethics and elementary symbolic logic, plus several others (such as philosophy of religion, epistemology, metaphysics, philosophy of the arts);
- some major issues in contemporary philosophy, (e.g., the mind-body problem, deontology vs. consequentialism, free will vs. determinism, etc.);
- different approaches to philosophy and alternative philosophical styles, (such as feminism, phenomenology, non-Western philosophy);

Evaluating and Constructing Philosophical Arguments

Philosophy majors should be able to:

- identify and clearly express conclusions and premises of arguments;
- explore the implications of premises and conclusions;
- assess the logical strength of arguments;
- assess the plausibility of premises;
- have a sense of propriety about major vs. minor issues in evaluating arguments;

- compare arguments with alternatives (are there better arguments for the same conclusion? is there a good case for some alternative conclusion?);
- recognize and avoid fallacies;
- assess the credibility of sources used.

Philosophical Research

Philosophy majors (especially those contemplating graduate study) should be able to:

- read and understand philosophical texts independently;
- find and use appropriate secondary sources;
- use proper scholarly format for writing papers;
- prepare bibliographies.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN PHILOSOPHY (36 Credits)

Requirements (16 Credits)

- PHIL 300 History of Ethics (4)
- PHIL 303 Classical Philosophy (4)
- PHIL 305 Modern Philosophy: 17th Century (2)
- PHIL 306 Modern Philosophy: 18th Century (2)
- PHIL 340 Symbolic Logic (3)
- PHIL 498 Senior Portfolio (1)

Restricted Electives (6 Credits)

Students must take one course from a grouping of courses with a historical emphasis (PHIL 304, 307, 355, 490, and 492) and will need departmental approval for application of PHIL 490 and/or 492 to this category. Students must also take PHIL 407 or 408.

- PHIL 304 Medieval Philosophy (3)
- OR PHIL 307 19th Century Philosophy (3)
- OR PHIL 355 Existentialism (3)
- OR PHIL 490 Topics in Philosophy (1-4)
- OR PHIL 492 Major Philosophers (1-3)

AND PHIL 407 Theory of Knowledge (3)

- OR PHIL 408 Metaphysics (3)

Electives (14 Credits)

Students will need to earn at least fourteen credits of electives in philosophy, eight of which must be at the 300 level or above.

Recommended (0 Credits)

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 (20 Credits)

Requirements (6 Credits)

- PHIL 110 Practical Reasoning (3)
- OR PHIL 340 Symbolic Logic (3)
- PHIL 115 Contemporary Moral Issues (3)
- OR PHIL 300 History of Ethics (4)

Restricted Electives (4 Credits)

At least four credits from the following list of courses. Students will need departmental approval for application of PHIL 490 and/or PHIL 492 to this category.

- PHIL 303 Classical Philosophy (4)
- PHIL 304 Medieval Philosophy (3)
- PHIL 305 Modern Philosophy: 17th Century (2)
- PHIL 306 Modern Philosophy: 18th Century (2)
- PHIL 307 19th Century Philosophy (3)
- PHIL 355 Existentialism (3)
- PHIL 490 Topics in Philosophy (1-4)
- PHIL 492 Major Philosophers (1-3)

Electives (10 Credits)

Ten credits of Philosophy electives required. At least eight credits of the minor must be in 300 or 400 level courses.

MINOR IN HUMANITIES-FINE ARTS (21 Credits)

Requirements (3 Credits)

- HUM 201 Humanities Through the Arts (3)

Restricted Electives (18 Credits)

Students must choose two courses in each of three of the four following areas: HUM 214, HUM 215; history and appreciation of the visual arts; theatre, film, and literature; and music. At least two of the elective credits must be in a studio, applied, or performing course.

MINOR IN HUMANITIES- WESTERN CULTURE (24 Credits)

Requirements (8 Credits)

- HUM 214 Classical and Medieval Worlds (4)
- HUM 215 Renaissance Through the Modern World (4)

Restricted Electives (3 Credits)

Students must take one of the following three courses.

- HUM 211 Perspectives on Society (3)
- HUM 212 Perspectives on Ultimate Reality (3)
- HUM 213 Perspectives on the Self (3)

Electives (13 Credits)

In consultation with an advisor from the department, students must choose thirteen credits of electives from humanistic disciplines that best serve individual interests, such as history, philosophy, political science, literature, or courses in appreciation of the arts.

Physical Education

Health and Physical Education Department
Nemzek 106, (218) 477-2445

Chair: Wendy Frappier

MSUM's Health and Physical Education (HPE) Department offers programs for students who are interested in administrative positions in health care delivery, community health promotions, teaching health or physical education in schools, exercise science, athletic training or coaching.

Requirements for Health degrees are listed under *Health* in this *Bulletin*.

Bachelor of Science in Physical Education: Teaching

Physical education teaching graduates are employed as K-12 physical education teachers, developmental adapted physical education teachers, and athletic coaches. A developmental adapted physical education licensure or coaching minor enhances public school employment opportunities. Graduates who wish to teach and coach at the college/university level pursue graduate degrees. Other physical education teaching graduates assume jobs in a variety of recreational and fitness fields.

STUDENT LEARNING OUTCOMES

Students should be able to demonstrate:

Content Knowledge

- Physical education teachers understand physical education content and disciplinary concepts related to the development of a physically educated person.

Growth and Development

- Physical education teachers understand how individuals learn and develop and can provide opportunities that support their physical, cognitive, social, and emotional development.

Diverse Students

- Physical education teachers understand how individuals differ in their approaches to learning, and create appropriate instruction adapted to these differences.

Management and Motivation

- Physical education teachers use an understanding of individual and group motivation and behavior to create a safe learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.

Communication

- Physical education teachers use knowledge of effective verbal, nonverbal, and media communication techniques to enhance learning and engagement in physical activity settings.

Planning and Instruction

- Physical education teachers plan and implement a variety of developmentally appropriate instructional strategies to develop physically educated individuals, based on state and national (NASPE K-12) standards.

Student Assessment

- Physical education teachers understand and use assessment to foster physical, cognitive, social, and emotional development of students in physical activity.

Reflection

- Physical education teachers are reflective practitioners who evaluate the effects of their actions on others (e.g., students, parents/guardians, fellow professionals), and seek opportunities to grow professionally.

Technology

- Physical education teachers use information technology to enhance learning and to enhance personal and professional productivity.

Collaboration

- Physical education teachers foster relationships with colleagues, parents/guardians, and community agencies to support students' growth and well-being.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN PHYSICAL EDUCATION-TEACHING (85 Credits)

Requirements (48 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.

HLTH 110 Personal Health and Wellness (3)
 HLTH 125 First Aid and CPR (2)
 HLTH 250 Injury Management (2)
 PE 191 Activities Course: Dance (2)
 PE 192 Activities Course: Gymnastics (1)
 PE 193 Activities Course: Elementary School (2)
 PE 194 Activities Course: Non-Traditional (1)
 PE 200 Foundations of Physical Education (3)

PE 310 Sport and Play in the United States (3)
 PE 311 Motor Learning (2)
 PE 320 Anatomical Kinesiology (3)
 PE 321 Human Physiology (3)
 PE 360 Elementary Methods in Physical Education (3)
 PE 361 Secondary Methods in Physical Education (3)
 PE 362 Middle School Methods in Physical Education (2)
 PE 420 Biomechanics (3)
 PE 421 Physiology of Exercise (3)
 PE 452 Adaptive Physical Education (3)
 PE 474 Tests and Measurements in Physical Education (3)
 PE 160 Swimming I (1)
OR PE 161 Swimming II (1)
OR PE 223 Water Safety Instructor (2)

Electives (4 Credits)

Students must earn one credit in courses that focus on physical fitness, one credit in courses that focus on team sports, and two credits in courses that focus on individual sports. Consult your academic advisor when making your selections from the listed courses.

PE 100 Aerobic Dance (1)
 PE 102 Weight Training I (1)
 PE 112 Bowling (1)
 PE 114 Golf (1)
 PE 116 Tennis I (1)
 PE 124 Badminton (1)
 PE 130 Volleyball I (1)
 PE 134 Soccer (1)

MINOR IN PHYSICAL EDUCATION-TEACHING (28 Credits)

Students who select this minor must also earn a teaching major in another discipline. Students should be advised that the State of Minnesota does not recognize minors in Physical Education for teacher licensure. Students who desire licensure in states other than Minnesota should check with teacher licensure authorities to determine licensure requirements. In addition to the courses listed, students are required to earn one additional elective credit in an activity course.

HLTH 125 First Aid and CPR (2)
 PE 191 Activities Course: Dance (2)
 PE 192 Activities Course: Gymnastics (1)
 PE 193 Activities Course: Elementary School (2)
 PE 200 Foundations of Physical Education (3)
 PE 320 Anatomical Kinesiology (3)
 PE 321 Human Physiology (3)
 PE 360 Elementary Methods in Physical Education (3)
 PE 361 Secondary Methods in Physical Education (3)
 PE 362 Middle School Methods in Physical Education (2)
 PE 452 Adaptive Physical Education (3)

Bachelor of Science in Exercise Science:

This Bachelor of Science Degree requires completion of 120 credits. The physical education exercise science major prepares students for careers in fitness, exercise science, wellness and health. The major will also prepare students for graduate school programs in exercise science, exercise physiology or cardiac rehabilitation. One of the goals of the Exercise Science Program is to prepare students to sit for certification by the American Council on Exercise, National Strength and Conditioning Association and the American College of Sports Medicine.

STUDENT LEARNING OUTCOMES

The following student outcomes for the B.S. (Exercise Science) program are consistent with recommendations of the American College in Sports Medicine (Health and Fitness Track).

The student should be able to demonstrate:

Anatomy and Biomechanics

- Knowledge of anatomy as it relates to exercise and health.
- Knowledge of biomechanical aspects of exercise participation.
- Knowledge of functional anatomy and biomechanics.
- Knowledge of biomechanical principles that underlie performance of the following activities: walking, jogging, running, swimming, cycling, weight lifting, and carrying or moving objects.

Exercise Physiology

- Basic knowledge of exercise physiology as it relates to exercise prescription.
- Knowledge of exercise physiology including the role of aerobic and anaerobic metabolism, muscle physiology, cardiovascular physiology, and respiratory physiology at rest and during exercise. In addition, demonstrate an understanding of the components of physical fitness, the effects of aerobic and strength and/or resistance training on the fitness components and the effects of chronic disease.

Human Development and Aging

- Knowledge of the benefits and risks associated with exercise training in prepubescent and postpubescent youth.
- Knowledge of the changes that occur during growth and development from childhood to old age.

Pathophysiology/Risk Factors

- Knowledge of cardiovascular, respiratory, metabolic, and musculoskeletal risk factors that may require further evaluation by medical or allied health professionals before participation in physical activities.

- Knowledge of the pathophysiology of atherosclerosis and how this process is influenced by physical activity.

Human Behavior and Psychology

- Ability to identify and define at least five behavioral strategies to enhance exercise and health behavior change (i.e., reinforcement, goal setting, social support).
- Ability to list and describe the specific strategies aimed at encouraging the initiation, adherence, and return to participation in an exercise program.

Health Appraisal and Fitness Testing

- Knowledge of the importance of a health/medical history.
- Knowledge, skills, and abilities to assess the health status of individuals and the ability to conduct fitness testing.

Safety, Injury Prevention, and Emergency Care

- Knowledge of and skill in obtaining basic life support and cardiopulmonary resuscitation certification.
- Skill in demonstrating appropriate emergency procedures during exercise testing and/or training.

Exercise Programming

- Knowledge of the recommended intensity, duration, frequency, and type of physical activity necessary for development of cardiorespiratory fitness in an apparently healthy population.
- Knowledge, skills, and abilities to prescribe and administer exercise programs for apparently healthy individuals, individuals at higher risk, and individuals with known disease.

Nutrition and Weight Management

- Knowledge to define the following terms: obesity, overweight, percent fat, lean body mass, anorexia nervosa, bulimia, and body fat distribution.
- Knowledge, skills, and abilities to provide information concerning nutrition and the role of diet and exercise on body composition and weight control.

Program and Administration/Management

- Knowledge, skills, and ability to administer and deliver health/fitness programs.

B.S. DEGREE IN EXERCISE SCIENCE (55-65 Credits)

Core Requirements (37-47 Credits)

Students in this major must earn at least two credits in PE 469.

HLTH 110 Personal Health and Wellness (3)
 HLTH 125 First Aid and CPR (2)
 HLTH 250 Injury Management (2)
 HLTH 305 Introduction to Nutrition (3)
 HLTH 330 Disease Prevention (2)
 PE 310 Sport and Play in the United States (3)
 PE 311 Motor Learning (2)
 PE 320 Anatomical Kinesiology (3)
 PE 321 Human Physiology (3)
 PE 365 Health and Fitness Instructor (3)
 PE 420 Biomechanics (3)
 PE 421 Physiology of Exercise (3)
 PE 469 Internship (2-12)
 PE 473 Exercise Testing and Interpretation (3)

Recommended (22 Credits)

Course selections should be made in close consultation with advisor. The following are recommended for students interested in working in a fitness center:

ACCT 230 Principles of Accounting I (3)
 HLTH 200 Introduction to Health Education and Health Promotion (2)
 MGMT 360 Principles of Management (3)
 MKTG 310 Principles of Marketing (3)
 PE 100 Aerobic Dance (1)
 PE 102 Weight Training I (1)
 PE 364 Teaching Aerobic Dance (3)
 PE 460 Principles of Coaching (3)
 PE 474 Tests and Measurements in Physical Education (3)

Recommended (29 Credits)

The following courses are recommended for students interested in graduate school (exercise physiology and cardiac rehabilitation).

BIOL 111 Cell Biology (4)
 BIOL 323 Human Anatomy (4)
 BIOL 349 Human Physiology (4)
 CHEM 110 Fundamentals of Chemistry (4)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 MATH 236 Applied Statistics (4)
 PHYS 160 College Physics I (4)

Recommended (13 Credits)

The following courses are recommended to improve communication and computer skills.
 CMST 100 Speech Communication (3)
 CSIS 103 Computer Concepts and Applications (3)
 ENGL 286 Practical Writing (3)
 ENGL 387 Technical Report Writing (4)

Electives (18 Credits)

Elective course selections should be made in close consultation with your academic advisor, depending upon the career goals of the student.

ACCT 230 Principles of Accounting I (3)
 BIOL 111 Cell Biology (4)
 BIOL 323 Human Anatomy (4)
 BIOL 349 Human Physiology (4)
 CHEM 110 Fundamentals of Chemistry (4)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 CMST 100 Speech Communication (3)
 CSIS 103 Computer Concepts and Applications (3)
 ENGL 286 Practical Writing (3)
 ENGL 387 Technical Report Writing (4)
 HLTH 200 Introduction to Health Education and Health Promotion (2)
 MATH 236 Applied Statistics (4)
 MGMT 360 Principles of Management (3)
 MKTG 310 Principles of Marketing (3)
 PE 100 Aerobic Dance (1)
 PE 102 Weight Training I (1)
 PE 364 Teaching Aerobic Dance (3)
 PE 460 Principles of Coaching (3)
 PE 474 Tests and Measurements in Physical Education (3)
 PHYS 160 College Physics I (4)

Developmental Adapted Physical Education Licensure

The developmental adapted physical educational licensure provides specialized training to teach physical education to public school students who have physical, sensory, emotional and/or mental disabilities. This licensure is an excellent complement to the physical education major.

DEVELOPMENTAL ADAPTED PHYSICAL EDUCATION LICENSURE (24 Credits)

Students will take five credits of internship. Post-baccalaureate students may take the 500-level equivalents of the courses listed.

PE 452 Adapted Physical Education (3)
 PE 453 Assessment and Programming in DAPE (3)
 PE 454 Curriculum in Developmental Adapted Physical Education (3)
 PE 456L Lab Curriculum and Assessment for Severely Handicapped (1)
 PE 469 Internship (2-12)
 SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
 SPED 461 Learning Disabilities (3)
 SPED 471 Behavior and Environment Management (3)

Coaching Minor

The coaching minor prepares students to assume the responsibilities of coaching in any sport related field. The minor enhances a student's credentials and employment opportunities and is available to students pursuing either a teaching or non-teaching degree.

MINOR IN COACHING (19 Credits)

This minor is available to teaching and non-teaching majors. Students must complete the following courses and must take two three credit coaching courses (PE 371-379).

HLTH 125 First Aid and CPR (2)
 HLTH 250 Injury Management (2)
 PE 350 Mechanical Principles of Sport (3)
 PE 351 Physiology of Sport (2)
 PE 460 Principles of Coaching (3)
 PE 461 Coaching Practicum (1)
 PE 371 Coaching Football (3)
 OR PE 372 Coaching Basketball (3)
 OR PE 373 Coaching Baseball and Softball (3)
 OR PE 374 Coaching Track and Field (3)
 OR PE 375 Coaching Wrestling (3)
 OR PE 376 Coaching Golf and Tennis (3)
 OR PE 378 Coaching Swimming and Diving (3)
 OR PE 379 Coaching Volleyball (3)

B.A. DEGREE IN PHYSICAL EDUCATION (52 Credits)**Requirements (52 Credits)**

This major is for students who do not plan to complete licensure in teaching. The requirements for the major are the same as the B.S. Degree requirements except that students do not have to complete the Teacher Licensure requirements.

Physical Science (Teaching)

See *Chemistry or Physics*

Physics and Astronomy**Physics and Astronomy Department**

Hagen Hall 307, (218) 477-2141

Chair: Linda Winkler

Faculty: Juan Cabanela, Matthew Craig, Richard Lahti, Stephen Lindaas, Ananda Shastri, Walter Worman

The Department of Physics and Astronomy offers three degrees in physics: a Bachelor's Degree in Physics, Bachelor's Degree in Physics Teaching, and a dual Physics/Engineering degree in conjunction with the University of Minnesota. The Bachelor's Degree in Physics may be further enhanced with an

Emphasis in Business. In addition, the department supports both a Minor in Physics and a Minor in Astronomy.

The physics major prepares students for a wide variety of science-related careers immediately upon graduation. It also prepares students for further study in a graduate or professional school. The major strengths of the physics program include:

- an emphasis on active learning using computers as tools for data collection, analysis, and modeling;
- opportunities for undergraduate research;
- involvement of students in outreach program.

The sequential nature of the physics curriculum, and the necessity to coordinate physics courses with courses taken in other departments make it imperative that a student considering a major or minor in physics or astronomy consult a member of the Department of Physics and Astronomy early in his/her career.

Bachelor's Degree in Physics Teaching

This degree prepares the student to be certified to teach high-school physics in Minnesota. The program combines physics courses for the major with education courses needed for licensure, as well as provides a broad education in chemistry, life science, and earth science. A student with this degree is very close to obtaining general science licensure in grades 5 through 8 with one additional science methods course.

Engineering/Physics Dual Degree

This program is unique in the Tri-College system. The student completes the core physics and liberal studies requirements in his/her first three years at Minnesota State University Moorhead. The student then completes a final two years at the Institute of Technology at the University of Minnesota, completing a Bachelor of Science degree in Mechanical, Civil, or Electrical Engineering. It is expected students in the dual degree program will obtain both a physics and engineering degree in 5 years. The Dual Degree Advisor and the Pre-engineering Advisor will work with individual students to ensure that requirements are met for both programs.

Emphasis in Business

This program prepares the physics student for a career in industry. In addition to physics courses, the student takes additional courses in finance, management, and marketing.

Minor in Physics

This minor is designed for the student who wants to have a strong resume in physical science, and is pursuing a closely allied major such as mathematics, chemistry, or computer science. A student pursuing a physics minor must have a solid mathematical foundation in algebra, trigonometry, and calculus.

Minor in Astronomy

The minor in astronomy curriculum is designed for students who have an interest in astronomy and earth sciences. A student pursuing a minor in astronomy must have a solid mathematical foundation in algebra and trigonometry.

STUDENT LEARNING OUTCOMES

Students will:

- Demonstrate basic knowledge of experimental and theoretical physics.
- Apply analytical thinking, mathematical analysis, and computational techniques to the solution of problems.
- Reach both quantitative and qualitative conclusions from experimental and observational data.
- Apply analytical thinking, instrumentation skills, and computer techniques to perform experiments.
- Design and carry out an independent research.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN PHYSICS EDUCATION (108 Credits)

Core Requirements (26 Credits)

In addition to the Physics requirements, students must also complete the thirty-four credits of teacher education requirements on page 170. Students may substitute PHYS 160-161 for PHYS 200-201.

PHYS 200 General Physics I (4)

PHYS 201 General Physics II (4)

PHYS 202 Gen Physics III (3)

PHYS 305 Experimental Physics I (2)

PHYS 306 Experimental Physics II (2)

PHYS 322 Elementary Modern Physics (3)

PHYS 330 Intermediate Mechanics (4)

PHYS 370 Electromagnetic Theory (4)

Requirements (33 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-four credits to the major.

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 305 General Botany (4)
 CHEM 200 General Chemistry I (4)
 CHEM 210 General Chemistry II (4)
 GEOS 115 Physical Geology (4)
 GEOS 116 Historical Geology (3)
 GEOS 360 Planetary Science (3)
 PHYS 440 Secondary Science Teaching Methods (3)

Related Requirements (15 Credits)

Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.

MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 366 Differential Equations (3)

B.S. DEGREE IN PHYSICS (66 Credits)**Core Requirements (39 Credits)**

Students may substitute PHYS 160 and 161, plus an approved two credit elective for PHYS 200 and 201.

PHYS 200 General Physics I (4)
 PHYS 201 General Physics II (4)
 PHYS 202 Gen Physics III (3)
 PHYS 305 Experimental Physics I (2)
 PHYS 306 Experimental Physics II (2)
 PHYS 315 Physics Seminar (1)
 PHYS 322 Elementary Modern Physics (3)
 PHYS 330 Intermediate Mechanics (4)
 PHYS 342 Introduction to Research (1)
 PHYS 350 Computational Methods for Physical Science (3)
 PHYS 370 Electromagnetic Theory (4)
 PHYS 399 Thermodynamics (3)
 PHYS 430 Quantum Mechanics (3)
 PHYS 455 Senior Project (2)

Related Requirements (19 Credits)

Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.

ENGL 387 Technical Report Writing (4)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 366 Differential Equations (3)

Electives (8 Credits)

Students must earn eight elective credits in Physics at the 300 level or higher.

EMPHASIS IN BUSINESS (81 Credits)**Requirements (56 Credits)**

Students may substitute PHYS 160-161 for PHYS 200-201.

ACCT 230 Principles of Accounting I (3)
 ACCT 304 Legal Environment of Business (3)
 ECON 202 Principles of Economics I: Micro (3)
 FINC 340 Financial Management (3)
 MGMT 360 Principles of Management (3)
 MGMT 380 Operations Management (3)
 MKTG 310 Principles of Marketing (3)
 PHYS 200 General Physics I (4)
 PHYS 201 General Physics II (4)
 PHYS 305 Experimental Physics I (2)
 PHYS 306 Experimental Physics II (2)
 PHYS 322 Elementary Modern Physics (3)
 PHYS 330 Intermediate Mechanics (4)
 PHYS 342 Introduction to Research (1)
 PHYS 350 Computational Methods for Physical Science (3)
 PHYS 370 Electromagnetic Theory (4)
 PHYS 399 Thermodynamics (3)
 PHYS 430 Quantum Mechanics (3)
 PHYS 455 Senior Project (2)

Restricted Electives (6 Credits)

In addition to the courses listed above, student must earn an additional 3 credits in physics at the 300 level or above, plus 3 credits from the courses listed below.

FINC 325 Financial Institutions and Markets (3)
 FINC 354 Real Estate Finance and Investments (3)
 FINC 441 Advanced Financial Management (3)
 MGMT 370 Management Information Systems (3)
 MGMT 405 Small Business Management (3)
 MGMT 420 Organizational Theory (3)
 MGMT 440 Personnel Management (3)
 MGMT 451 Organizational Behavior (3)
 MGMT 469 Student Internship (2-8)
 MKTG 311 Marketing Management (3)
 MKTG 315 Industrial Marketing (3)
 MKTG 419 Supply Chain Management (3)

Related Requirements (19 Credits)

Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.

ENGL 387 Technical Report Writing (4)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 366 Differential Equations (3)

EMPHASIS IN ASTRONOMY (77 Credits)

Core Requirements (39 Credits)

Students must complete the physics core requirements.

Requirements (15 Credits)

AST 102 Solar System Astronomy (3)
 AST 104 Stellar Astronomy (3)
 AST 365 Cosmology (3)
 AST 380 Celestial Mechanics (3)
 AST 410 Astrophysics (3)

Restricted Electives (4 Credits)

In addition to the courses listed above, students must earn an additional 4 credits from these courses:

AST 350 Astronomical Image Processing (1)
 AST 360 Planetary Science (3)
 PHYS 312 Analog Electronics (3)
 PHYS 372 Optics (3)
 PHYS 469 Physics Internship (2-4)

Related Requirements (19 Credits)

Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.

ENGL 387 Technical Report Writing (4)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 323 Multi-Variable and Vector Calculus (4)
 MATH 366 Differential Equations (3)

MINOR IN PHYSICS (24 Credits)

Requirements (19 Credits)

Students may substitute PHYS 160-161 for PHYS 200-201.

PHYS 200 General Physics I (4)
 PHYS 201 General Physics II (4)
 PHYS 202 Gen Physics III (3)
 PHYS 305 Experimental Physics I (2)
 PHYS 306 Experimental Physics II (2)
 PHYS 315 Physics Seminar (1)
 PHYS 322 Elementary Modern Physics (3)

Electives (5 Credits)

Students must earn five elective credits in Physics courses at the 300 level or higher.

MINOR IN ASTRONOMY (23 Credits)

Requirements (8 Credits)

Students will need to earn at least two credits in AST 390.

AST 102 Solar System Astronomy (3)
 AST 104 Stellar Astronomy (3)
 AST 390 Projects in Advanced Astronomy (2)

Related Requirements (8 Credits)

PHYS 160 College Physics I (4)
 PHYS 160L Physics 160 Laboratory (0)
 PHYS 161 College Physics II (4)
 PHYS 161L Physics 161 Laboratory (0)

Electives (7-8 Credits)

Depending on elective choices, student will earn seven or eight credits in this area.

AST 190 Topics in Astronomy (1-3)
 AST 350 Astronomical Image Processing (1)
 AST 360 Planetary Science (3)
 AST 365 Cosmology (3)
 AST 380 Celestial Mechanics (3)
 AST 410 Astrophysics (3)
 GEOS 115 Physical Geology (4)

Political Science

Political Science Department

Foundation Annex, (218) 477-2942

Chair: Barbara Headrick

Faculty: Philip Baumann, Andrew Conteh, James Danielson, Paul Kramer

The ancient Greek philosopher, Aristotle, indicated that among all areas of human inquiry, political science is the “master science”. Not only is the study of politics challenging, rewarding, and important, but it often leads to careers in foreign and domestic government service, higher education and the practice of law.

STUDENT LEARNING OUTCOMES

Students are expected to be able to read analytically, think critically, and organize ideas about the subject matter of the discipline in oral and written form so that information is communicated both intelligently and intelligibly.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

**B.A. DEGREE IN POLITICAL SCIENCE
(46-47 Credits)****Requirements (27 Credits)**

POL 120 American National Government and Politics (3)

POL 160 International Relations (3)

POL 210 Introduction to Political Science (3)

POL 230 Introduction to the Law (3)

POL 310 Political Science Research Methods (3)

POL 315 Political Thought (3)

POL 340 Public Administration (3)

OR POL 341 Public Policy (3)

POL 350 Comparative Governments of Western Europe (3)

OR POL 352 Political Problems in Developing Countries (3)

POL 361 International Political Economy (3)

Restricted Electives (7-8 Credits)

The orientation requirement in research tools is composed of seven or eight credits, depending on the elective option chosen. Students are required to complete (1) a two course sequence at the 200 level or above in a foreign language or (2) MATH 234 and PHIL 110.

Electives (12 Credits)

Students must take sufficient electives in Political Science courses to bring the total Political Science credits to 39.

MINOR IN POLITICAL SCIENCE (21 Credits)**Requirements (6 Credits)**

POL 120 American National Government and Politics (3)

POL 210 Introduction to Political Science (3)

Electives (15 Credits)

Students must earn at least fifteen credits of Political Science electives, nine of which must be at the 300 level or above.

Psychology**Psychology Department**

Bridges 360, (218) 477-2802

Chair: Gary Nickell

Faculty: Rochelle Bergstrom, Magdalene Chalikia, Derick Dalhouse, Ernest W. Hallford, Richard Kolotkin, Christine Malone, Olivia Melroe, Elizabeth Nawrot, Margaret Potter, Margaret Racek, Lisa Stewart

The Psychology Department offers an undergraduate major and minor in psychology. An important aspect of the program is the science/research orientation built into the curriculum. Students may specialize in areas

emphasizing preparation for graduate school or for work in the profession at the bachelor's degree level.

STUDENT LEARNING OUTCOMES

- Students can demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- Students can understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
- Students can respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.
- Students can understand and apply psychological principles to personal, social, and organizational issues.
- Students are able to weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline.
- Students can demonstrate information competence and the ability to use computers and other technology for many purposes.
- Students can demonstrate effective writing skills in various formats (e.g., essays, correspondence, technical papers, note taking) and for various purposes (e.g., informing, defending, explaining, persuading, arguing, teaching).
- Students can demonstrate effective oral communication skills in various formats (e.g., group discussion, debate, lecture) and for various purposes (e.g., informing, defending, explaining, persuading, arguing, teaching).
- Students can recognize, understand, and respect the complexity of sociocultural and international diversity.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN PSYCHOLOGY (42 Credits)**Requirements (27 Credits)**

PSY 113 General Psychology (3)

PSY 202 Developmental Psychology (3)

PSY 231 Psychological Statistics and Methodology I (3)

PSY 232 Psychological Statistics and Methodology II (3)

PSY 261 Personality (3)

PSY 330 Experimental Psychology (3)
PSY 430 Advanced Experimental Psychology (3)
PSY 463 Abnormal Psychology (3)
PSY 481 Seminar in Psychology (3)

Electives (15 Credits)

Students must take at least 15 elective credits in Psychology courses, 9 of which must be at the 300 level or above.

MINOR IN PSYCHOLOGY (24 Credits)

Requirements (12 Credits)

PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)
PSY 261 Personality (3)
PSY 231 Psychological Statistics and Methodology I (3)

With departmental approval, students may substitute MATH 234 or SOC 350 for PSY 231.

Electives (12 Credits)

Twelve elective credits in Psychology are required. At least six of the 12 must be at the 300 or 400 level.

Public Relations

See Mass Communications

Religious Studies

Philosophy Department

Bridges 359

Coordinator: Konrad Czynski

MINOR IN RELIGIOUS STUDIES (21 Credits)

Core Requirements (9 Credits)

PHIL 120 World Religions (3)
PHIL 301 Philosophy of Religion (3)
SOC 330 Sociology of Religion (3)

Restricted Electives (12 Credits)

Students must choose twelve credits from the listed electives. Students may substitute other courses, such as topics courses, in consultation with the student's advisor and with approval by the Coordinator of Religious Studies.

ANTH 316 Magic, Witchcraft and Religion (3)
ANTH 318 Archaeology and the Bible (3)
ANTH 320 American Indian Belief Systems (3)
ART 411 Medieval Art (4)
ART 420 Renaissance Art (4)
ENGL 234 Mythology (3)
ENGL 416 Milton (3)
HUM 212 Perspectives on Ultimate Reality (3)
HUM 220 Introduction to East-West Humanities (3)
PHIL 304 Medieval Philosophy (3)

Science

Students may obtain a B.S. (Teaching) degree in Life Science, Chemistry, Earth Science or Physics. Upon completion of the requirements for one of these programs, the student will be licensed in Grades 5-12 by the Minnesota State Department of Education. See the Biosciences Department, Chemistry Department, Anthropology and Earth Science Department or Physics and Astronomy Department for more information.

Secondary and K-12

Foundations of Education Office

Lommen 213, (218) 477-2217

Director: Charles Howell

Faculty: Steven Grineski, Linda Houts-Smith, Brian Smith, Harry Weisenberger

Additional information about education policies and degree requirements can be found under *Teacher Education*.

Areas of Study

K-12 disciplines include Visual Arts, Music, Spanish, and Physical Education. Secondary Education disciplines include the majors of Communication Arts and Literature, Health, Mathematics, Life Science, Earth Science, Physical Science, and Social Studies.

Secondary and K-12 Requirements

Students interested in obtaining licensure to teach Secondary and K-12 Education must be admitted to the Teacher Education program and satisfy all Selective Admission and Retention in Teacher Education (SARTE) requirements.

Selective Admission and Retention in Teacher Education (SARTE) Requirements

- complete 100 and 200 level education core courses with grade of "C" or higher in each course;
- liberal studies GPA of 2.5;
- cumulative GPA of 2.5;
- take the Pre-Professional Skills Tests (PPST);
- submit application for admission to Teacher Education.

Student Teaching Requirements

- admission and retention in Teacher Education (SARTE) including a cumulative GPA of 2.5;
- GPA of 2.5 in education core courses with grade of "C" or higher in each course;
- major GPA of 2.5;
- complete program requirements in major, including method courses;
- submit application for student teaching by posted deadline.

Licensure Requirements

- complete program requirements including the sequence of field experiences;
- pass the Pre-Professional Skills Test (PPST);
- pass the Praxis II;
- submit application for Licensure.

STUDENT LEARNING OUTCOMES

The following student learning outcomes are identified as fundamental to the teacher education program at MSUM. MSUM teacher candidates will:

- apply liberal studies/content knowledge;
- understand student/child development and learning;
- demonstrate multicultural, gender-fair, and disability sensitive values;
- employ appropriate group and individual instructional strategies;
- establish and maintain a productive learning environment;
- actively use communication and interpersonal skills;
- assign an organized, effective and appropriate curriculum;
- use appropriate group and individual assessment strategies;
- engage in life-long learning;
- demonstrate professionalism, ethical behavior, and leadership;
- use technology in support of classroom instruction.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

SECONDARY EDUCATION TEACHING**LICENSURE (PreK-12, K-12, 5-8, 5-12, and 9-12) (34 Credits)****Core Requirements (34 Credits)**

In addition to the listed courses, students must also complete a teaching methods course in their major discipline. PreK-12 grade level is the licensure range for Developmental Adapted Physical Education; K-12 grade level is the licensure range for English as a Second Language, Instrumental and Classroom Music, Vocal and Classroom Music, Visual Arts, Physical Education and World Languages and Cultures; 5-12 grade level is the licensure range for Communication Arts/Literature, Health, Mathematics, and Social Studies; the 5-8 grade level is the only licensure range for Science; the grade level of 9-12 is the only licensure range available for Chemistry, Earth Science, Life Science, and Physics. AMCS 233 Education and Multicultural America (3) CMST 100 Speech Communication (3) ED 205 Introduction to Education and Technology (2)

- ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
ED 443S Classroom Management/Consultation (3)
EECE 448 Reading Study Skills in the Content Areas (3)
SPED 320 Educational Services for Individuals with Exceptionalities (3)
ED 461S Student Teaching: Secondary (10)
OR ED 460S Student Teaching: Secondary (5)
AND EECE 480E Student Teaching: Elementary (5)

CERTIFICATE IN MIDDLE SCHOOL EDUCATION (12 Credits)**Requirements (9 Credits)**

- ED 451 Middle School Philosophy (2)
ED 452 Adolescent Development and Advisor/Advisee Programs (2)
ED 453 Interdisciplinary Instructional Strategies (2)
EECE 448 Reading Study Skills in the Content Areas (3)

Restricted Electives (3 Credits)

In addition to the listed requirements, students must complete a curriculum methods course appropriate for the area of emphasis in midlevel education. Examples of such courses include: ENGL 494, MATH 316, PHYS 442, CHEM 442, and BIOL 442. Other methods courses may be chosen, depending on the midlevel discipline, in consultation with the Middle School Certificate Coordinator.

School of Business

See Business

Social Studies**History Department**

Dragon Den, (218) 477-2812

Program Coordinator: Steven Hoffbeck

Successful completion of the Social Studies major leads to certification from the State of Minnesota to teach in grades five through twelve.

The major has four components:

- **Core requirements, also known as distribution requirements.** These courses expose majors to the various disciplines that comprise Social Studies. All students must complete the 27-29 credit requirement listed below.
- **Emphasis.** Majors must choose one discipline as their emphasis. Requirements for each discipline are listed below.

- **Secondary emphasis.** Majors must choose one discipline as their secondary emphasis. Requirements for each discipline are listed below.
- **Teacher licensure requirements.** These requirements are common to all secondary education majors and are listed under Secondary Education. Students should carefully study and understand all of these components and choose their course of study in consultation with their advisor. In selecting primary and secondary emphases, students should consider their own interest and aptitudes and the needs of the job market in secondary schools. While History is the foundation of Social Studies in the schools and is the most frequently taught subject in Social Studies, other areas are also taught at the secondary level, often depending on the size of the school. In Minnesota, high schools must commonly offer courses in Geography, Political Science, and Economics.

It is also worth noting that students can enhance their appeal as teacher candidates by qualifying themselves to coach a sport. Consult with the Health and Physical Education Department to learn more.

STUDENT LEARNING OUTCOMES

Students completing programs in History and Social Studies should be able to demonstrate the ability to do the following:

Reading Comprehension and Cognitive Skills

- identify the main point or thesis in a piece of historical writing;
- analyze how authors develop their theses and support them with evidence;
- recognize and evaluate differences in historical interpretation among different authors.

Historical Thinking Skills

- recognize potential sources of bias in historical writings;
- understand and interpret events in their appropriate historic context;
- understand and interpret relations of cause and effect and other sequential relations;
- understand the complexity of human motivations and appreciate cultural differences in patterns of behavior and ideation;
- synthesize a variety of evidence into a coherent and plausible account of events.

Research Skills

- recognize the difference between primary and secondary sources, and understand the uses and importance of each type;
- select and refine an appropriate topic for a given assignment;
- identify a variety of different kinds of source materials that could shed light on a particular topic;
- use the library and various bibliographic aids to identify and locate different sources relevant to a particular topic;
- evaluate which of their sources are the most authoritative;
- compile and annotate a bibliography, and present it in proper format;
- conduct an oral history interview.

Written Communication Skills

- formulate a thesis on the basis of insights gained from research;
- develop their thesis in an organized and logical progression;
- use appropriate evidence to support points;
- cite their sources properly;
- summarize points made in source materials, and make the connections between different points of view and their own;
- recognize the shortcomings of their evidence and anticipate possible objections;
- respond constructively to criticism and make appropriate revisions;
- write clear and grammatical prose;
- critically evaluate the work of other students.

Oral Communication Skills

- respond clearly and thoughtfully to questions and comments in class discussion;
- draw upon and summarize reading materials in ways that address larger themes and issues;
- deliver an effective oral presentation;
- critically evaluate the work of other students.

Computer Literacy

- produce a paper using word processing software;
- use e-mail;
- conduct research using the World Wide Web in addition to traditional sources

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN SOCIAL STUDIES**(96-101 Credits)****Core Requirements (27-29 Credits)**

In addition to the core, all students must complete a primary and a secondary emphasis. Students must also fulfill all teacher licensure requirements which will add thirty-three credits to the major total.

ANTH 110 Introduction to Cultural Anthropology (3)
 ECON 100 The American Economy (3)
 GEOS 111 Cultures and Regions (3)
 HIST 121 History of the United States to 1877 (3)
 HIST 122 History of the United States Since 1877 (3)
 HIST 440 Secondary Social Studies Instruction (3)
 POL 105 Making Sense of Politics (3)
 PSY 113 General Psychology (3)
 SOC 110 Introduction to Sociology (3)

OR SOC 210 Social Problems (3)

PRIMARY EMPHASIS IN ANTHROPOLOGY**(24 Credits)****Requirements (12 Credits)**

This is the primary emphasis in Anthropology for the Social Studies degree. Students must also choose a secondary emphasis in Economics, Geography, History, Political Science, Psychology, or Sociology.

ANTH 115 Introduction to Archaeology (3)
 ANTH 120 Introduction to Physical Anthropology (3)
 ANTH 265 Language and Culture (3)
 ANTH 300 Archaeology (3)

Electives (12 Credits)

Students must take twelve elective credits in Anthropology courses. At least one of the courses must be a cultural anthropology course.

PRIMARY EMPHASIS IN ECONOMICS**(24 Credits)****Requirements (15 Credits)**

This is the primary emphasis in Economics for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Geography, History, Political Science, Psychology, or Sociology.

ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 ECON 300 Global Economic Issues (3)
 ECON 302 Intermediate Microeconomic Theory (3)
 ECON 304 Intermediate Macroeconomic Theory (3)

Electives (9 Credits)

Students must complete at least nine credits of Economics electives.

PRIMARY EMPHASIS IN GEOGRAPHY**(25 Credits)****Requirements (10 Credits)**

All students in this emphasis must complete GEOS 110 and GEOS 480. Additionally, students must complete six credits from the following courses: GEOS 235, GEOS 310, and GEOS 410.

GEOS 110 Introductory Physical Geography (3)
 GEOS 235 Geography of Minnesota and North Dakota (3)
 GEOS 310 United States and Canada (3)
 GEOS 410 Eastern Europe and Russia (3)
 GEOS 480 Senior Seminar (1)

Restricted Electives (15 Credits)

Students must complete fifteen credits from the listed courses. Students may not fulfill the "Restricted Electives" section with any of the courses applied toward the "Requirements" section of this emphasis.

ANTH 307 Ecological Anthropology (3)
 GEOS 225 Conservation (3)
 GEOS 235 Geography of Minnesota and North Dakota (3)
 GEOS 305 Oceanography (3)
 GEOS 310 United States and Canada (3)
 GEOS 320 Economic Geography (3)
 GEOS 325 Reading Landscape: Ways of Seeing (3)
 GEOS 330 Elementary Meteorology (3)
 GEOS 405 Geographic Information Systems (3)
 GEOS 410 Eastern Europe and Russia (3)

PRIMARY EMPHASIS IN HISTORY (21-23 Credits)**Requirements (9-10 Credits)**

This is the primary emphasis in History for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Economics, Geography, Political Science, Psychology, or Sociology.

HIST 104 World History I (3)
 HIST 105 World History II (3)
 HIST 401 Senior Seminar (3-4)

Restricted Electives (12 Credits)

Students must take twelve credits of electives at the 300 level or above distributed in the following areas: at least three credits in European History, at least three credits in U.S. or Canadian History, and at least three credits in African, Asian, Latin American, or modern Middle Eastern History. In addition, students must take a 3 credit elective which can be in any area of history.

PRIMARY EMPHASIS IN POLITICAL SCIENCE (24 Credits)**Requirements (18 Credits)**

This is the primary emphasis in Political Science for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Economics, Geography, History, Psychology, or Sociology.

POL 120 American National Government and Politics (3)

POL 160 International Relations (3)

POL 221 State and Local Government (3)

POL 310 Political Science Research Methods (3)

POL 315 Political Thought (3)

POL 350 Comparative Governments of Western Europe (3)

Electives (6 Credits)

Students must choose six credits in Political Science electives.

PRIMARY EMPHASIS IN PSYCHOLOGY (24 Credits)**Requirements (9 Credits)**

This is the primary emphasis in Psychology for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Economics, Geography, History, Political Science, or Sociology.

PSY 202 Developmental Psychology (3)

PSY 231 Psychological Statistics and Methodology I (3)

PSY 261 Personality (3)

Electives (15 Credits)

Students must complete 15 elective credits in Psychology courses. Six of the elective credits must be at the 300 level or above.

PRIMARY EMPHASIS IN SOCIOLOGY (26 Credits)**Requirements (15 Credits)**

This is the primary emphasis in Sociology for the Social Studies degree. Students who choose Sociology as their primary emphasis must take SOC 110 as part of the "Core Requirements." Students must also choose a secondary concentration in Anthropology, Economics, Geography, History, Political Science, or Psychology.

SOC 210 Social Problems (3)

SOC 230 Social Psychology (3)

SOC 302 Social Theory (3)

SOC 310 Dominant-Subordinate Group Relations (3)

SOC 412 Sociology of Complex Organizations (3)

Restricted Electives (11 Credits)

Students must take eleven credits in Sociology electives at the 300 level or above.

SECONDARY EMPHASIS IN AMERICAN MULTICULTURAL STUDIES (12-14 Credits)**Requirements (3-4 Credits)**

This is the secondary emphasis in American Multicultural Studies for the Social Studies major. Students must take one of these required courses and one course from each of the 3 cultural emphases: African American, American Indian or Chicano/Latino, for a total of four courses in this emphasis. AMCS 300 Theories and Methods in American Multicultural Studies (3)

OR AMCS 372 Dynamics of Prejudice and Oppression (4)

Restricted Electives (9 Credits)

Select one course from each of the 3 cultural emphases: African American, American Indian and Chicano/Latino.

African American

AMCS 210 African American Humanities: Roots (4)

AMCS 211 Contemporary African Americans (3)

American Indian

AMCS 102 Contemporary American Indians (3)

AMCS 225 Ojibwe Culture (3)

AMCS 270 American Indian Education (3)

AMCS 313 Modern Multicultural America (4)

AMCS 319 Plains Indian Cultures (3)

AMCS 332 Indians of the Southwest (3)

Chicano/Latino

AMCS 103 Contemporary Chicanos (3)

AMCS 203 Chicano Culture (3)

AMCS 303 Latinos in the United States (3)

Related Requirements

With the approval from department chair, AMCS 390: Topics in American Multicultural Studies may be substituted for one of the required courses, if appropriate.

SECONDARY EMPHASIS IN ANTHROPOLOGY (12 Credits)**Requirements (3 Credits)**

This is the secondary emphasis in Anthropology for the Social Studies degree.

ANTH 115 Introduction to Archaeology (3)

OR ANTH 120 Introduction to Physical Anthropology (3)

Electives (9 Credits)

Students must choose at least nine credits of Anthropology electives.

SECONDARY EMPHASIS IN ECONOMICS**(12 Credits)****Requirements (9 Credits)**

This is the secondary emphasis in Economics for the Social Studies degree.

ECON 202 Principles of Economics I: Micro (3)

ECON 204 Principles of Economics II: Macro (3)

ECON 300 Global Economic Issues (3)

Electives (3 Credits)

The economics elective must be at the 300 level or above.

SECONDARY EMPHASIS IN GEOGRAPHY**(12 Credits)****Requirements (6 Credits)**

This is the secondary emphasis in Geography for the Social Studies degree. Students must take GEOS 110 and must also take one of the following courses:

GEOS 235, GEOS 310, or GEOS 410.

GEOS 110 Introductory Physical Geography (3)

GEOS 235 Geography of Minnesota and North Dakota (3)

GEOS 310 United States and Canada (3)

GEOS 410 Eastern Europe and Russia (3)

Restricted Electives (6 Credits)

Students will complete 6 credits from the listed courses. Students may not fulfill the “Restricted Electives” section with any of the courses applied toward the “Requirements” section of this emphasis.

ANTH 307 Ecological Anthropology (3)

GEOS 225 Conservation (3)

GEOS 235 Geography of Minnesota and North Dakota (3)

GEOS 305 Oceanography (3)

GEOS 310 United States and Canada (3)

GEOS 320 Economic Geography (3)

GEOS 325 Reading Landscape: Ways of Seeing (3)

GEOS 330 Elementary Meteorology (3)

GEOS 405 Geographic Information Systems (3)

GEOS 410 Eastern Europe and Russia (3)

SECONDARY EMPHASIS IN HISTORY**(12 Credits)****Requirements (3 Credits)**

This is the secondary emphasis in History for the Social Studies degree.

HIST 105 World History II (3)

Restricted Electives (9 Credits)

Students must take courses at the 300 level or above distributed as follows: one course in European history, one course in the history of either Africa, Asia, Latin America, or the modern Middle East, and one course in the history of the United States or Canada.

SECONDARY EMPHASIS IN POLITICAL**SCIENCE (12 Credits)****Requirements (6 Credits)**

This is the secondary emphasis in Political Science for the Social Studies degree.

POL 120 American National Government and Politics (3)

POL 160 International Relations (3)

Electives (6 Credits)

Students must earn at least six credits in Political Science electives.

SECONDARY EMPHASIS IN PSYCHOLOGY**(12 Credits)****Requirements (3 Credits)**

This is the secondary emphasis in Psychology for the Social Studies degree.

PSY 202 Developmental Psychology (3)

OR PSY 261 Personality (3)

Electives (9 Credits)

Students must complete 9 elective credits in Psychology courses. Six of the elective credits must be at the 300 level or above.

SECONDARY EMPHASIS IN SOCIOLOGY**(12 Credits)****Requirements (9 Credits)**

Students who choose Sociology as their Secondary Emphasis must take SOC 110 as part of the “Core Requirements.”

SOC 210 Social Problems (3)

SOC 302 Social Theory (3)

SOC 310 Dominant-Subordinate Group Relations (3)

Electives (3 Credits)

Students must take three credits, at the 300 level or above, in Sociology courses.

Social Work**School of Social Work****Lommen 83, (218) 477-2632****Chair:** Mary Schroeder**Faculty:** Jeremy Carney, Tracy Clark, Shawn Ginther, Susan Peterson, Amy Phillips

The Minnesota State University Moorhead 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. This course of study also prepares students for graduate education. The Bachelor of Social Work (BSW) degree is awarded upon completion of all university and social work major requirements both within the department and in related areas.

Transfer students with an AA or BA degree from another college or university are exempt from Minnesota State University Moorhead's Liberal Studies requirement. However, social work majors who do not have the equivalent of two courses (minimum of five semester *Credits*) from Division F: Multicultural and Global Studies of the Liberal Studies requirement, must take such course work from MSUM. At least one of these courses must be designated a multicultural course (F1).

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 semester they are enrolled in SW 330, Human Behavior and the Social Environment (exceptions may be made for transfer students).

Criteria for Admission to Social Work

- the student must obtain a grade of "C" or higher on ALL Social Work courses;
- the student must have an overall MSUM GPA of 2.5 or higher at the time of application for admission;
- the student must have completed or be enrolled in SW 250 and SW 330, or their approved equivalents at other colleges or universities;
- the student must complete a self-evaluation essay;
- the student must complete a writing examination. Students lacking the necessary writing skills will be allowed to take the writing exam at the time of the next admissions. If a student receives his/her letter and is denied admission based on failure to meet writing skills standards, the letter will outline a plan of improvement. This plan might include taking a writing course, working with the Write Site, or reconsidering the choice of major;
- the student must complete a minimum of 30 hours of supervised human service experience (volunteer or paid) prior to the application for admission to the program.

Current major requirements are available in the department. A grade of "C" or higher must be earned in all Social Work courses. A 2.5 GPA must be in place prior to internship and at the time of graduation. Students are encouraged to contact the department chair for further information or clarification.

STUDENT LEARNING OUTCOMES

MSUM baccalaureate social work program graduates will be able to:

- Apply critical thinking skills within the context of professional social work practice;
- Understand the value base of the profession and its ethical standards and principles, and practice accordingly;
- Practice without discrimination and with respect, knowledge, values, and skills related to clients' age, class, color, culture, disability, ethnicity, family structures, gender, marital status, national origin, race, religion, and sexual orientation;
- Understand the forms and mechanisms of oppression and discrimination and apply the strategies of advocacy and social change that advance social and economic justice;
- Understand and interpret the history of the social work profession and its contemporary structures and issues;
- Apply the knowledge and skills of generalist social work practice with systems of all sizes;
- Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities;
- Analyze, formulate, and influence social policies;
- Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions;
- Use communication skills differentially across client populations, colleagues, and communities;
- Use supervision and consultation appropriate to generalist practice;
- Function within the structure of organizations and service delivery systems and seek necessary organizational change.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S.W. DEGREE IN SOCIAL WORK (73 Credits) Requirements (42 Credits)

In addition to the required courses, students must take three credits of Social Work electives at the 400 level.

SW 250 Introduction to Social Welfare and Social Work (3)

SW 330 Human Behavior and the Social Environment (3)

SW 360 Research Methods in Social Work (3)

SW 420 Generalist Practice: Individuals (3)

SW 430 Generalist Practice: Families (3)

SW 440 Generalist Practice: Groups (3)
 SW 450 Generalist Practice: Communities and Organizations (3)
 SW 460 Social Policy (3)
 SW 469 Internship (12)
 SW 470 Senior Seminar (3)

Related Requirements (31 Credits)

BIOL 104 Human Biology (3)
 ECON 100 The American Economy (3)
 HIST 241 History of Social Welfare (3)
 PARA 470 Government Benefits (3)
 POL 120 American National Government and Politics (3)
 PSY 113 General Psychology (3)
 PSY 202 Developmental Psychology (3)
 SOC 110 Introduction to Sociology (3)
 SOC 230 Social Psychology (3)
 SOC 350 Methods and Statistics for Social Research (4)

MINOR IN SOCIAL WELFARE (27 Credits)**Requirements (6 Credits)**

A minor in Social Welfare is not accepted by the Council on Social Work Education as adequate preparation for entry level social work practice; neither does a minor in Social Welfare qualify students to take state licensure examinations. This minor is offered solely for students' learning in the area of social services. Students who seek a minor in Social Welfare must complete BIOL 104, PSY 113, PSY 202, and SOC 110 prior to enrolling in SW 330. SW 250 Introduction to Social Welfare and Social Work (3)

SW 330 Human Behavior and the Social Environment (3)

Related Requirements (12 Credits)

BIOL 104 Human Biology (3)
 PSY 113 General Psychology (3)
 PSY 202 Developmental Psychology (3)
 SOC 110 Introduction to Sociology (3)

Electives (9 Credits)

Students must take at least nine credits of Social Work electives chosen from those listed as requirements for the major. Social Work majors will be given priority for class enrollment. Required or elective courses for a social work major may be taken as electives for the social welfare minor. (An internship in a related major does not meet the elective requirements.)

Sociology**Sociology and Criminal Justice Department
Lommen 102, (218) 477-2045**

Chair: Joel Powell-Dahlquist

Faculty: Karen Branden, Jan Fiola, Mark Hansel, Michael Hughey, Susan Humphers-Ginther, David Olday, Denis Stead, Lee Vigilant, Deborah White

The sociology major focuses on the study of society, social inequality, organization, social problems, social institutions, and social interaction. As sociology majors, students investigate a wide range of topics such as minorities, family, crime, class, population, and religion. Students are encouraged to develop writing and social research skills, as well as a broad understanding of society and organization.

STUDENT LEARNING OUTCOMES

Students are expected to exhibit an:

- understanding of the content of sociology;
- ability to apply the concepts of sociology to social issues;
- ability to think critically;
- understanding of social research, including the ability to apply research findings to social issues;
- ability to organize ideas, evidence, information and argument;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning social issues.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN SOCIOLOGY (48 Credits)**Requirements (28 Credits)**

SOC 110 Introduction to Sociology (3)
 SOC 210 Social Problems (3)
 SOC 230 Social Psychology (3)
 SOC 302 Social Theory (3)
 SOC 310 Dominant-Subordinate Group Relations (3)
 SOC 350 Methods and Statistics for Social Research (4)
 SOC 412 Sociology of Complex Organizations (3)
 SOC 450 Senior Seminar in Sociology (3)
 SOC 351 Quantitative Methods (3)
OR SOC 352 Qualitative Methods (3)

Electives (20 Credits)

Students may apply up to three credits of Cultural Anthropology or Criminal Justice courses toward the Sociology major with departmental approval. Students may apply up to three credits from readings courses (SOC 497) toward the major. Up to three internship (SOC 469) credits may be taken by Sociology majors, but these credits cannot be applied to the 48 credits required by the major.

MINOR IN SOCIOLOGY (24 Credits)

Requirements (6 Credits)

SOC 110 Introduction to Sociology (3)
SOC 210 Social Problems (3)

Electives (18 Credits)

Students must take eighteen credits of Sociology electives.

Spanish

See *Languages and Cultures*

Special Education

Lommen 209, (218) 477-2297

Program Coordinator: Linda Svobodny

Faculty: Katherine Anderson, Kevin Anderson, Deanne Borgeson, Britt Ferguson, Susan Severson, Steven Street

Additional information about education policies and degree requirements can be found under *Teacher Education*.

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), developmental disabilities (DD), or specific learning disabilities (SLD). By combining components, a student may meet the requirements for multiple licensure.

To complete the major in Special Education, all students must complete at least ten weeks of full-time student teaching (10 credits). Students completing student teaching for two licenses within one semester may enroll for eight weeks of full-time student teaching for each license (8 credits each). Students receiving multiple licensure, either across general and special education or within special education, may complete half-time 10 week field experience (4 credits each) for each subsequent license.

All Special Education majors must complete the

Undergraduate Teacher Education Core, Special Education Core, the Minnesota Human Relations Requirement, and at least one set of Special Education licensure requirements. MATH 303, PSY 113, PSY 202, and CMST 100 are related requirements that may be completed as part of liberal studies curriculum.

Policy for continuing enrollment in the special education major

Completion of the Pre-Professional Skills Test (PPST) is required before students can enroll in 300 and 400 level special education courses. Passing the PPST is mandatory before students will receive Minnesota licensure.

Effective September 1, 2001, all applicants for a first time Minnesota teaching license must complete the following teacher licensure examinations before being granted a license in addition to passing the PPST (Praxis I).

- Principles of Learning and Teaching
- Test of Content/Subject Matter

Applicants adding a licensure field to an existing Minnesota license will be required to complete the content/subject matter test for the field to be added. They will not be required to take the Principles of Learning and Teaching or the PPST.

All student teaching or practicums in special education (SPED 451, 467, 468, 567, 568, 667, 668, 669) require a minimum GPA of 2.75 in Special Education prefix course work.

STUDENT LEARNING OUTCOMES

Special Education teacher candidates:

- Demonstrate knowledge and understanding of the Principles of Teaching and Core Content Knowledge in Special Education.
- Demonstrate ability to assess, teach and evaluate learners with disabilities.
- Demonstrate ability to assume professional role of a Special Education teacher and demonstrate appropriate dispositions for teaching.
- Demonstrate professional research and writing capabilities.
- Demonstrate the ability to use a variety of learning strategies which may include assistive technology and universal design in instruction.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN SPECIAL EDUCATION**(81-87 Credits)****Core Requirements (12 Credits)**

This Teacher Licensure core is required of all students majoring in one of the Special Education licensure areas: ECSE, SLD, DD, or E/BD.

ED 205 Introduction to Education and Technology (2)

ED 205E Early Field Experience (1)

ED 294 Educational Psychology (3)

ED 310 Social Foundations of Education (3)

SPED 320 Educational Services for Individuals with Exceptionalities (3)

Requirements (9 Credits)

These courses are required of all students majoring in one of the Special Education licensure areas: ECSE, SLD, DD, or E/BD.

SPED 443 Consultation and Collaboration in Special Education and Human Services (3)

SPED 471 Behavior and Environment Management (3)

SPEC 494 Legal/Social Foundations of Special Education (3)

Related Requirements (15 Credits)

These courses are required of all students majoring in one of the Special Education licensure areas: ECSE, SLD, DD, or E/BD.

AMCS 233 Education and Multicultural America (3)

CMST 100 Speech Communication (3)

MATH 303 Foundations of Number Systems (3)

PSY 113 General Psychology (3)

PSY 202 Developmental Psychology (3)

DD OPTION (84 Credits)**Core Requirements (36 Credits)**

All students must complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

Requirements (38 Credits)

Students must take at least 10 credits in SPED 451D unless they have already received teacher certification.

SPED 413 Instructional Strategies (3)

SPED 417 Educating Students with Severe Disabilities (3)

SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)

SPED 445 Remedial and Corrective Reading (3)

SPED 451D Student Teaching: Developmental Disabilities (8-10)

SPED 456 Functional Assessment and Curriculum (3)

SPED 459 Communication Programming for Persons with Severe Disabilities (3)

SPED 463 Assessment Strategies (3)

SPED 463L Assessment Lab (1)

SPED 467D Practicum: Developmental Disabilities (3)

SPED 470 Transitional Planning (3)

Related Requirements (10 Credits)

ED 343 Curricular Issues (3)

ED 367 Practicum: General Education (1)

EECE 341 Reading and Language Arts I (3)

MATH 306 Mathematics for Special Education (3)

E/BD OPTION (81 Credits)**Core Requirements (36 Credits)**

All students must complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

Requirements (35 Credits)

Students must earn at least 10 credits in SPED 451C unless they have already received teacher certification.

SPED 413 Instructional Strategies (3)

SPED 445 Remedial and Corrective Reading (3)

SPED 451C Student Teaching: E/BD (8-10)

SPED 463 Assessment Strategies (3)

SPED 463L Assessment Lab (1)

SPED 464 Educational Planning and Adaptation for Students with Learning Problems (3)

SPED 467A Secondary Practicum: Mild Disabilities (3)

SPED 470 Transitional Planning (3)

SPED 473 Emotional/Behavioral Disorders (3)

SPED 478 Educational Interventions: Emotional/Behavioral Disorders (3)

Related Requirements (10 Credits)

ED 343 Curricular Issues (3)

ED 367 Practicum: General Education (1)

EECE 341 Reading and Language Arts I (3)

MATH 306 Mathematics for Special Education (3)

ECSE OPTION (82 Credits)**Core Requirements (36 Credits)**

All students must complete the courses listed as “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

Requirements (35 Credits)

Students must take at least 10 credits in SPED 451E unless they have already received teacher certification.

SPED 417 Educating Students with Severe

Disabilities (3)

SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)

SPED 423 Young Children with Disabilities and Their Families (3)

SPED 424 Assessment in Early Childhood Special Education (3)

SPED 426 Infant Strategies (3)
SPED 427 Instructional Strategies: Preschool (3)
SPED 451E Student Teaching: ECSE (8-10)
SPED 459 Communication Programming for Persons
with Severe Disabilities (3)
SPED 467E Practicum: Young Child Disabilities (2)
SPED 467I Practicum: Infant/Interagency Services (2)

Related Requirements (11 Credits)

Students must earn at least two credits in EECE 467K.
EECE 234 Play and Development (3)
EECE 291 Foundations of Literacy (3)
EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 467K Practicum: Pre-Primary (1-4)

SLD OPTION (81 Credits)

Core Requirements (36 Credits)

All students must complete the courses listed as “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

Requirements (35 Credits)

Students must earn at least 10 credits in SPED 451B unless they have already received teacher certification.
SPED 413 Instructional Strategies (3)
SPED 445 Remedial and Corrective Reading (3)
SPED 451B Student Teaching: SLD (8-10)
SPED 461 Learning Disabilities (3)
SPED 463 Assessment Strategies (3)
SPED 463L Assessment Lab (1)
SPED 464 Educational Planning and Adaptation for
Students with Learning Problems (3)
SPED 467A Secondary Practicum: Mild Disabilities (3)
SPED 470 Transitional Planning (3)
SPED 475 Informal Assessment/Teaching Strategies:
Students with Learning Disabilities (3)

Related Requirements (10 Credits)

ED 343 Curricular Issues (3)
ED 367 Practicum: General Education (1)
EECE 341 Reading and Language Arts I (3)
MATH 306 Mathematics for Special Education (3)

Speech/Language/Hearing Sciences

**Speech/Language/Hearing /Sciences Department
Grier 100, (218) 477-2286**

Chair: Bruce Hanson

Faculty and Clinical Staff: Richard Adler,
Louis De Maio, Mary Drake, Jane McCabe,
LaRae McGillivray, Nancy Paul, Marie Swanson,
Kris Vossler

The academic programs offered in speech, language, and hearing at Minnesota State University Moorhead 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-language pathology, audiology, and communication science. The major is also appropriate for those who will pursue careers in hearing conservation, education of the deaf or hard of hearing and related areas.

To practice as a speech-language pathologist or audiologist, the master’s degree is a nationwide requirement. The title of the undergraduate major, Speech/Language/Hearing Sciences, suggests that it is a pre-professional degree designed to qualify students for admission to professional study at the graduate level at this or other universities.

The department has established clinical experience eligibility requirements. All students must meet these requirements before enrolling in any course that requires that they provide assessment or treatment to individuals with communication disorders. The requirements are as follow:

- C- grade or better in all completed SLHS courses,
- a cumulative grade point average of 3.0,
- no outstanding grades of incomplete,
- 25 hours of supervised clinical observation and a completed speech and hearing screening.

If a student does not meet the stated requirements they may initiate an appeal through the department’s clinic coordinator.

Pre-audiology

Although the undergraduate program at other universities is usually the same for future speech-language pathologists and audiologists, the Speech/Language/Hearing Sciences Department at Minnesota State University Moorhead offers a pre-audiology concentration. The purpose of the pre-audiology concentration is to allow students interested in a career in audiology to follow a program of studies better tailored to their interest.

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. Minnesota State University Moorhead’s program is accredited by the American Speech-Language-Hearing Association’s Council on Academic Accreditation.

Admission to any graduate program at Minnesota State University Moorhead is limited to those who qualify by virtue of their undergraduate grade point average, Graduate Records Examination score, and recommendations. 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.

STUDENT LEARNING OUTCOMES

Students will:

- acquire fundamental information describing the bases, nature, development, and use of speech, language, hearing, and the total communication process;
- synthesize and evaluate specialized information describing the nature, etiology, assessment, and management of speech, language, and hearing disorders or differences;
- attain appropriate skill levels for clinical competencies as they progress through the program (undergraduate through graduate study);
- demonstrate skill in oral and written language.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department's approved upper level writing requirement. See the department or faculty advisor for specific details.

B.S. DEGREE IN SPEECH/LANGUAGE/ HEARING SCIENCES (59 Credits)

Requirements (48 Credits)

- SLHS 101 Introduction to Speech/Language/Hearing Sciences (2)
- SLHS 201 Phonetics (2)
- SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
- SLHS 204 Language Development (4)
- SLHS 271 Introduction to Audiology (4)
- SLHS 321 Articulation and Phonological Disorders (4)
- SLHS 322 Language Disorders in Preschool Children (4)
- SLHS 343 Clinical Procedures (3)
- SLHS 347 Introduction to Augmentative and Alternative Communication (2)
- SLHS 372 Audiometry (3)
- SLHS 402 Neuroanatomy and Physiology of Communication (3)
- SLHS 421 Voice Science and Disorders (2)
- SLHS 424 Fluency Disorders (2)
- SLHS 446 Clinical Experience (3)

- SLHS 448 Program Management in Speech-Language Pathology (2)
- SLHS 473 Rehabilitation Audiology (3)
- SLHS 491 Research Applications in SLHS (2)

Related Requirements (11 Credits)

- CMST 100 Speech Communication (3)
- ENGL 387 Technical Report Writing (4)
- MATH 236 Applied Statistics (4)

EMPHASIS IN PRE-AUDIOLOGY (61 Credits)

Requirements (38 Credits)

- SLHS 101 Introduction to Speech/Language/Hearing Sciences (2)
- SLHS 171 American Sign Language I (3)
- SLHS 172 American Sign Language II (3)
- SLHS 201 Phonetics (2)
- SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
- SLHS 204 Language Development (4)
- SLHS 271 Introduction to Audiology (4)
- SLHS 343 Clinical Procedures (3)
- SLHS 372 Audiometry (3)
- SLHS 402 Neuroanatomy and Physiology of Communication (3)
- SLHS 446 Clinical Experience (3)
- SLHS 473 Rehabilitation Audiology (3)
- SLHS 491 Research Applications in SLHS (2)

Related Requirements (11 Credits)

- ENGL 387 Technical Report Writing (4)
- MATH 236 Applied Statistics (4)
- PHYS 105 Physics of Music (3)

Electives (12 Credits)

- Students must earn twelve elective credits from the following list of courses. These electives should be chosen in close consultation with a faculty advisor.
- ACCT 230 Principles of Accounting I (3)
- CHEM 110 Fundamentals of Chemistry (4)
- CHEM 180 Introduction to Organic and Biochemistry (4)
- ECON 202 Principles of Economics I: Micro (3)
- FINC 340 Financial Management (3)
- MGMT 405 Small Business Management (3)
- PSY 113 General Psychology (3)
- PSY 202 Developmental Psychology (3)
- PSY 348 Cognition and Perception (3)
- PSY 402 Child/Adolescent Psychology (3)
- PSY 403 Adulthood and Aging (3)
- SLHS 321 Articulation and Phonological Disorders (4)
- SLHS 322 Language Disorders in Preschool Children (4)
- SLHS 347 Introduction to Augmentative and Alternative Communication (2)
- SLHS 421 Voice Science and Disorders (2)
- SOC 308 Social Gerontology (3)

MINOR IN SPEECH/LANGUAGE/HEARING SCIENCES (23 Credits)

Requirements (15 Credits)

A minor in SLHS is not equivalent to a Speech Pathology Assistant degree.

SLHS 101 Introduction to Speech/Language/Hearing Sciences (2)

SLHS 201 Phonetics (2)

SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)

SLHS 204 Language Development (4)

SLHS 271 Introduction to Audiology (4)

Electives (8 Credits)

Students must earn at least eight elective credits in SLHS courses. These courses are to be chosen in close consultation with a faculty advisor.

Curricula

Teacher Education

See Elementary and Early Childhood Education, Secondary and K-12 (Kindergarten-Grade 12) Education, Special Education, and specific Secondary and K-12 teaching fields for requirements specific to various degrees. The requirements described below apply to all teaching licensures. All Minnesota State University Moorhead education programs are accredited by NCATE (the National Council for Accreditation of Teacher Education) and meet standards set by the Minnesota Board of Teaching.

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:

- admission to teacher education and retention in good standing;
- completion of a professional education sequence of courses appropriate to the level of teacher preparation;
- a sequence of early field experiences;
- student teaching; and
- passing scores on the PPST (Pre-Professional Skills Test) and the Praxis II tests.

Selective Admission and Retention in Teacher Education (SARTE)

Formal application for admission to teacher education is begun during the student's first education course (ED 205).

To be admitted to a program in teacher education, students must meet the following requirements. The requirements must be met before enrolling in 300- and 400-level courses with the prefixes: ED, EECE, and SPED. *Art 350 also requires SARTE acceptance for enrollment.

To be admitted to Elementary and Early Childhood Education Programs students must

- complete 100- and 200-level courses in the Core Requirement section with a grade of "C-" or higher;
- have a GPA of 2.25 in Liberal Studies;
- have a cumulative GPA of 2.75;
- take the Pre-Professional Skills Test (PPST);
- submit verification of prior teaching experience with groups of children/adolescents;
- demonstrate ability to communicate effectively using written English. Students should consult with the department chair or advisor as there are a variety of ways in which this can be documented;
- write a letter requesting admission into the program that shows how experiences thus far relate to the unit's conceptual framework;
- complete and attach Disposition Self-Evaluation form;
- attach a copy of the evaluation form from the first field experience (ED 205E);
- submit application for admission to Teacher Education.

To be admitted to Secondary and K-12 Education and Special Education programs students must:

- complete 100- and 200-level courses in the Core Requirement section with a grade of "C-" or higher;
- have a GPA of 2.25 in Liberal Studies;
- have a cumulative GPA of 2.5;
- take the pre-Professional Skills Test (PPST);
- write a letter requesting admission into the program that shows how experiences thus far relate to the unit's conceptual framework;
- complete and attach Disposition Self-Evaluation form;
- attach a copy of the evaluation form from the first field experience (ED 205E);
- submit application for admission to Teacher Education.

Students who fail to maintain an overall GPA of 2.5 in Secondary Education, K-12 Education and Special Education or an overall GPA of 2.75 in Elementary and Early Childhood Education will be suspended from the respective program. The Teacher Education Admission and Retention Committee (TEARC) handles appeal processes.

NOTE: Programs may have additional requirements for admission to programs, admission to field experiences, graduation, or licensure. See your advisor for those requirements.

Dismissal from Teacher Education

A faculty member, cooperating teacher, or administrator of a school to which a student is assigned may request a review of a student's professional dispositions or academic competence. As a result of this review, students may be required to complete remediation. Failure to successfully complete remediation will result in removal from the Teacher Education program.

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 MSUM Teacher Education program to comply with requirements of the Minnesota State Board of Teaching.

Early Field Experiences

All teacher education majors are required to complete a series of field experiences prior to student teaching. Education 205E is the first early field experience for all licensure areas and is usually taken during the sophomore year. Students must be admitted to Teacher Education to enroll in the subsequent 300- and 400-level early field experiences. Students need to arrange their schedules so that the required blocks of time needed to complete the field experiences are available during the school day. Transportation to the assigned school and liability insurance are arranged and paid for by the student.

Student Teaching

Students are to apply by posted deadlines for admission to student teaching. Deadlines are posted in the Field Experiences Office and on the web site.

Application forms are available online at www.mnstate.edu/fieldexp/.

Student teaching placements are limited based upon availability of classroom teachers. Students should be prepared to travel within a radius of 60 miles. Transportation, food, lodging and liability insurance are arranged and paid for by the student.

Student teaching will be scheduled by the Field Experience Office for a predetermined period of time each semester. Student teachers will follow the calendar of the school in which they are placed during the assignment.

The requirements for admission to student teaching include:

- Admission and retention in teacher education, including GPA of 2.5 for secondary, K-12, and Special Education majors or 2.75 for Elementary and Early Childhood Education majors;

- GPA of 2.5 or higher in education core courses with a grade of "C" or higher in each course;
- GPA of 2.25 in liberal studies;
- Completion of program requirements including methods courses;
- Submission of application for student teaching by posted deadline.

NOTE: Programs may have additional requirements for admission to field experiences. See your advisor for those requirements.

License Programs and Applications

Completion of a degree including a teaching major and teacher education requirements are necessary to qualify for licensure. In addition, students must submit passing scores for both the Pre-Professional Skills Test (PPST) and the Praxis II, which comprises the Principles of Learning and Teaching, and required subject area content tests. Several majors include different concentrations or options leading to one or more specialized licenses in the major field.

Students who plan teaching careers are advised to examine all license options and contact the coordinator 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) 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.

Minnesota State University Moorhead is authorized to endorse license applications to other states only for students who have fulfilled all requirements for approved license programs in Minnesota.

In 1998 the federal government passed Section 207 of the Higher Education Act (HEA) mandating that all institutions with teacher preparation programs in which students receive federal financial assistance prepare annual reports on teacher preparation and licensing. The reporting process started with all

teacher education students graduating in the 1999-2000 academic year. The state of Minnesota mandates that students must pass the PRAXIS I and II battery of tests to receive a teaching license. Passing rates of MSUM candidates are available online at (www.mnstate.edu/edhuman/teachered/forms/MSUM_Title_IIa.pdf).

If you have any questions concerning Title II, please contact the Dean of Education and Human Services at (218) 477-2096.

STUDENT LEARNING OUTCOMES

MSUM teacher candidates:

- apply liberal studies content knowledge;
- understand student/child development and learning;
- demonstrate multicultural, gender-fair and disability sensitive values;
- employ appropriate group and individual instructional strategies;
- establish and maintain a productive learning environment;
- effectively use communication and interpersonal skills;
- design an organized, effective and appropriate curriculum;
- use appropriate group and individual assessment strategies;
- engage in lifelong learning;
- demonstrate professionalism, ethical behavior, and leadership;
- use technology in support of classroom instruction.

Candidates within the unit are becoming professionals who are knowledgeable, humanistic, creative and reflective.

Technology

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Ronald Williams

Faculty: Norma Andersen, Tristia Conzemius, Aziz Kian, Michael Ruth, Scott Seltveit, Wade Swenson

The Department of Technology houses four B.S. degree programs and two pre-professional transfer programs. Please see the listings by program:

- B.S. Construction Management - see Construction Management
- B.S. Graphic Communications - see Graphic Communications
 - Option in Digital Design and Production
 - Option in Multimedia Development

- B.S. Industrial Technology - see Industrial Technology
 - Option in Industrial Distribution
 - Option in Industrial Management
- B.S. Operations Management – see Operations Management (2+2)
- Pre-transfer: Architecture - see Architecture
- Pre-transfer: Engineering - see Engineering

Theatre Arts

Communication Studies, Film Studies, and Theatre Arts Department

Roland Dille Center for the Arts 116, (218) 477-2126

Chair: Craig Ellingson

The Minnesota State University Moorhead Theatre Arts program is dedicated to two primary goals. The first is to provide our students with high-caliber training in theatre that prepares them to create theatre of any kind at any level. The second is to provide the Red River Valley area with a multifaceted, high-quality theatrical experience. These goals interweave to provide entertainment and education to those on both sides of the curtain.

Theatre Arts at MSUM is production oriented and students are involved in construction, costuming, lighting, sound, and make-up, as well as performing, stage directing, and publicity. Students may pursue one or more emphases including Acting, Directing, and Theatre Technology and Design.

The faculty and students of the Communication Studies, Film Studies, and Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. In each of the three areas of the department – Communication Studies, Film Studies, and Theatre Arts – we provide a challenging, contemporary, relevant curriculum within the contest of the Liberal Arts that prepares our graduates to become contributing and ethical citizens in a diverse, global community. We promote creativity, critical thinking, and lifelong discovery through courses that integrate theory and history with practice and application.

STUDENT LEARNING OUTCOMES

Students who graduate with a degree from Minnesota State University Moorhead with a major in Theatre Arts should meet the following objectives:

- Students will demonstrate knowledge and understanding of theatre history, literature, and dramatic theory, and have an ability to communicate effectively about these topics.

- Students will demonstrate the ability to analyze, design and construct theatrical scenery, lighting, costumes, sound and props using appropriate tools and technology, and have an ability to effectively communicate about this process.
- Students will act in a variety of performance styles, and demonstrate the ability to communicate effectively their knowledge and understanding of this process.
- Students will direct for the theatre, and demonstrate the ability to effectively communicate their knowledge and understanding of this process.

UPPER LEVEL WRITING REQUIREMENT

Majors in Theatre Arts will meet the upper level writing requirement through THTR 322 – Drama II and THTR 323 – Drama III.

B.A. DEGREE IN THEATRE ARTS (51 credits)

Core Requirements (33 Credits)

The core is required of all students majoring in one of the Theatre Arts emphases: Acting, Directing, or Theatre Technology and Design. A grade of “C-” or higher in THTR 496 is required for graduation. In addition to these requirements for a Theatre Arts degree, students must fulfill other university requirements.

THTR 101 A, B, C, D Theatre Practicum (1)

(Must be repeated 4 times for 4 credits.)

THTR 140 Dance for the Stage I (3)

THTR 221 Drama I (3)

THTR 230 Principles of Acting (3)

THTR 232 Principles of Make-up for Stage and Film (2)

THTR 235 Principles of Stage Directing (3)

THTR 255 Technical Theatre Methods (3)

THTR 322 Drama II (3)

THTR 323 Drama III (3)

THTR 355 Scene Design I (3)

THTR 496 Senior Seminar (3)

In addition to the core of 33 credits, an emphasis of 18 credits is also required. Students may choose from the emphases listed below.

EMPHASIS IN PERFORMANCE: ACTING (18 Credits)

Requirements (15 credits)

THTR 331 Scene Study (3)

THTR 333 Movement for the Actor (3)

THTR 334 Voice for the Actor (3)

THTR 430 Acting Styles (Repeated twice for a total of 6 credits)

Electives (3 credits)

Students must take three credits in theatre electives which are at the 300 level or higher.

EMPHASIS IN DIRECTING (18 Credits)

Requirements (15 credits)

THTR 331 Scene Study (3)

THTR 333 Movement for the Actor (3)

THTR 334 Voice for the Actor (3)

THTR 335 Advanced Stage Directing (3)

THTR 435 Directing Theory (3)

Electives (3)

Students must take three credits in theatre electives which are at the 300 level or higher.

EMPHASIS IN THEATRE TECHNOLOGY AND DESIGN (18 Credits)

Requirements (15 credits)

THTR 233 Theatre Costuming (3)

THTR 335 Advanced Stage Directing (3)

THTR 356 Advanced Technical Theatre Methods/ Lighting (3)

THTR 434 Special Topics: Theatre Technology or Design (3)

THTR 450 Scene Design II (3)

Electives (3 credits)

Students must take three credits in theatre electives which are at the 300 level or higher.

MINOR IN THEATRE ARTS (25 Credits)

Requirements (19 Credits)

THTR 140 Dance for the Stage I (3)

THTR 160 Technical Theatre Production (2 @ 1)

THTR 220 Introduction to Theatre (3)

THTR 221 Drama I (3)

THTR 230 Principles of Acting (3)

THTR 232 Principles of Makeup for Stage and Film (2)

THTR 235 Principles of Stage Directing (3)

THTR 255 Technical Theatre Methods (3)

Electives (6 credits)

Students must take six credits in theatre electives which are at the 300 level or higher.

MINOR IN THEATRE DANCE (25 Credits)

Requirements (21 Credits)

THTR 140 Dance for the Stage I (3)

THTR 240 Dance for the Stage II (3)

THTR 324 Musical Theatre History (3)

THTR 333 Movement for Acting (3)

THTR 340 Principles of Choreography (3)

THTR 440 Dance Production (6)

Related Requirements (4 credits)

HLTH 250 Injury Management (2)
MUS 110 Musicianship for Non-majors (2)

University Studies

Center for Business

Room 100D (218) 477-4649

Program Advisor: Yvonne Johnson

The University Studies major is intended for those students whose goals have changed and who no longer want, or are able, to complete their original major.

Requirements (128 credits)

- 45 credits: Liberal Studies requirements
- 36 credits: a partial major program or rubric;
- no more than 30 total credits from the areas of Accounting, Finance, Management and Marketing may be included in the partial major program or rubric;
- 21 credits: additional single rubric coursework or an area of concentration
- 26 credits: free electives

Students must also fulfill the following requirements:

- 40 credits of the degree program must be at the 300-400 level;
- 30 credits of the last 64 credits and 8 of the last 12 credits must be earned at MSUM;
- major may be declared as late as the semester prior to graduation, but not before attaining junior standing;
- both the partial major or rubric and the additional single rubric or concentration must include courses with at least a 2.0 GPA;
- areas of the concentration are proposed by the advisor and student and approved by the dean as a part of the degree program;
- if business is the "partial major program or rubric," it may include up to a maximum of 30 credits in business;
- students will meet MSUM graduation requirements; including the upper-level writing requirement.

Any advisor may approve this type of major, as long as all the requirements above are met. The Records Office will check, as they do for all degrees, to see that all requirements are completed. The dean's approval is required.

Wildlife Management

**Cooperative Degree Program
Biosciences Department**

Hagen Hall 407, (218) 477-2572

Chair: Donna Bruns Stockrahm

Students interested in jobs or graduate school in Wildlife Biology complete a pre-wildlife management program within the Biology major through selection of appropriate upper-division electives.

Women's Studies

Women's Studies Office

Flora Frick Hall 152, (218) 477-4056

Program Coordinator: Laurie Blunsom

Affiliated Faculty: Karen Branden, Ellen Brisch, Layna Cole, Linda Fuselier, Susan Hamphers-Ginther, Britney Goodman, Paul Harris, Cecilia Mafla-Bustamante, Michelle Malott, Phyllis May-Machunda, Katherine Meiners, Annette Morow, Carol Okigbo, Cynthia Phillips, Gail Pohlhaus, Hazel Retzlaff, Chris Walla, Deborah White

Women's Studies Curriculum

The Women's Studies program at MSUM has been ongoing since 1971 and provides an interdisciplinary study of women from the perspectives of the arts, humanities, social and natural sciences. Students will evaluate and integrate various kinds of knowledge to critically analyze current attitudes toward women and gender and to examine the experiences of women. The Women's Studies Minor provides students a valuable opportunity to study women's roles and experiences throughout history.

For further information about the Women's Studies Program, please visit our website: www.mnstate.edu/women.

B.A. DEGREE IN WOMEN'S STUDIES

(45-47 Credits)

Core Requirements (15-16 Credits)

WS 100 Women Today: Contemporary Women's Issues (3)

WS 247 Women's Studies (3)

WS 314 Introduction to Feminist Theory (3)

OR PHIL 314 Introduction to Feminist Theory (3)

WS 412 Seminar in Women's Studies (3-4)

Requirements (12 Credits)

Students must complete a minimum of six credits in the Social and Natural Sciences Area and 6 credits in the Arts and Humanities Area. At least 9 of these credits must be at the upper division level.

Social and Natural Sciences Area**(Minimum of 6 credits)**

- ANTH 303 Cross Cultural Gender (3)
 BIOL 300 Biology of Women (3)
 PSY 310 Psychology of Women (3)
 SOC 333 Sociology of Gender (3)

Arts and Humanities Area (Minimum of 6 credits)

- ART 408 Women and Art (4)
 ENGL 246 Women in Literature (3)
 HIST 350 Women in European History (4)
 HIST 375 Women in United States History (3)
 WS 312 Women and the Humanities (3)

Restricted Electives (12 Credits)

Students may use ENGL 248 or MC 496 only when topic relates to Women's Studies content. Other courses not applied in a concentration area may be used for elective credits.

- ENGL 248 Introduction to American Ethnic Literature (3)
 MC 415 Gender and Media (3)
 MC 496 Mass Communications Seminar (3)
 MDS 232A Women's Roles and Socialization in 19th and 20th Century America (2)
 MDS 232B Women's Roles and Socialization in 19th and 20th Century America (1)
 PE 294 Women and Sport (3)
 PHIL 235 Philosophy of Sex and Love (3)
 PHIL 495 Topics in Feminist Theory (3)
 SOC 219 Sociology of Sexual Behavior (3)
 SOC 308 Social Gerontology (3)
 SOC 320 Sociology of the Family (3)
 SOC 416 Violence in the Family (3)
 WS 390 Topics in Women's Studies (1-3)
 WS 410 Directed Readings in Women's Studies (1-3)

Related Requirements (6-7 Credits)

- WS 420 Feminism in Global Perspective (3)
 AMCS 372 Dynamics of Prejudice and Oppression (4)
 OR SOC 310 Dominant-Subordinate Group Relations (3)

MINOR IN WOMEN'S STUDIES (24-25 Credits)**Requirements (15-16 Credits)**

- WS 100 Women and Society (3)
 WS 247 Women's Studies (3)
 WS 314 Introduction to Feminist Theory (3)
 WS 412 Seminar in Women's Studies (3-4)
 OR WS 495 Topics in Feminist Theory (3)
 WS 420 Feminism in Global Perspective (3)

Electives (9 Credits)

Three courses are required. Students may use only two courses from the same academic area. Other courses may be allowed with prior approval of the program coordinator. If you choose ENGL 248 or MC 496, the topic must relate to Women's Studies.

- AMCS 372 Dynamics of Prejudice and Oppression (4)
 ENGL 248 Introduction to American Ethnic Literature (3)
 HIST 350 Women in European History (4)
 HIST 375 Women in United States History (3)
 MC 415 Gender and Media (3)
 MC 496 Mass Communications Seminar (3)
 PHIL 235 Philosophy of Sex and Love (3)
 PSY 310 Psychology of Women (3)
 WS 219 Sociology of Sexual Behavior (3)
 WS 232A Women's Roles and Socialization in 19th and 20th Century America (2)
 WS 232B Women's Roles and Socialization in 19th and 20th Century America (1)
 WS 246 Women in Literature (3)
 WS 294 Women and Sport (3)
 WS 300 Biology of Women (3)
 WS 303 Cross Cultural Gender (3)
 WS 308 Social Gerontology (3)
 WS 310 Dominant-Subordinate Group Relations (3)
 WS 312 Women and the Humanities (3)
 WS 320 Sociology of the Family (3)
 WS 333 Sociology of Gender (3)
 WS 390 Topics in Women's Studies (3)
 WS 408 Women and Art (4)
 WS 410 Directed Readings in Women's Studies (1-3)
 WS 416 Violence in the Family (3)
 WS 495 Topics in Feminist Theory (3)

Curricula



Course Descriptions

The Course Description section lists undergraduate courses offered at Minnesota State University Moorhead as of June 2005, arranged in alphabetical order by subject. The first line indicates the department offering the course, course number, Liberal Studies/Dragon Core (the specific Liberal Studies/Dragon Core category is enclosed in brackets), course title, and credit value. The second line indicates the semester the course will typically be offered. The paragraph below each course describes content and lists required prerequisites.

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. Numbers below 100 designate remedial or technical courses which are not applicable to college degree requirements.

Accounting

ACCT 130 Fundamentals of Accounting (3)

Spring: All Years

General purpose accounting and reporting issues and procedures that affect small businesses and their operators. May not be applied to any business major. May not be taken for credit by anyone who has completed ACCT 315 or ACCT 330, or any equivalent course.

ACCT 230 Principles of Accounting I (3)

Fall: All Years

Spring: All Years

Introduction to the content and concepts underlying the basic financial statements prepared by management for use by investors and creditors.

ACCT 230M Beginning Managerial Accounting Concepts (1)

Fall: On Demand

Spring: On Demand

Managerial topics in ACCT 230 include: Cost-volume analysis, cost behavior and budgeting in manufacturing and non-manufacturing environments. Prepares transfer students for ACCT 231. This class is designed for transfer students whose Principles of Accounting sequence excluded these topics. The course is delivered in a self-study format.

ACCT 231 Principles of Accounting II (3)

Fall: All Years

Spring: All Years

Financial statement analysis and fundamentals of managerial accounting decision making.
Prerequisite: ACCT 230

ACCT 304 Legal Environment of Business (3)

Fall: All Years

Spring: All Years

Introduction to the American legal system, legal and regulatory environment of business, ethics and social responsibility, contracts, agency, and business organizations.

ACCT 306 Contracts and Business Entities (3)

Fall: All Years

Study of contracts, agency, business organizations (including all forms of partnerships, corporations and limited liability companies), and securities regulation.

Prerequisite: ACCT 304

ACCT 307 Commercial Transactions, Property and Special Topics (3)

Fall: All Years

Spring: All Years

Detailed study of Uniform Commercial Code (sales contracts, commercial paper and secured transactions), creditors' remedies, bankruptcy, property (real, personal and intellectual), bailments, trusts and estates, insurance law and professional responsibilities. **Prerequisite:** ACCT 304

ACCT 315 Accounting Systems (3)

Fall: All Years

Spring: All Years

Developing, organizing, and using accounting data in a computerized environment; emphasis on accounting applications using computerized spreadsheets, databases, and general ledger software.

Prerequisite: ACCT 230, CSIS 104

ACCT 321 Employment Law (3)

Fall: On Demand

Spring: On Demand

An exploration of the legal nature of the employment relationship including contract and liability issues and major stages of the employment relationship, including hiring, evaluation and termination.

Coverage includes antidiscrimination law and the Family and Medical Leave Act. Same as PARA 321.

Prerequisite: ACCT 304

ACCT 330 Intermediate Accounting I (3)

Fall: All Years

Spring: All Years

Review of the accounting process and basic financial statements. Analysis of conceptual framework, working capital and fixed assets. Research using the Financial Accounting Research System (FARS). May be taken concurrently with Acct 315 or Mgmt 370.

Prerequisite: ACCT 231, ACCT 315, or MGMT 370

ACCT 331 Intermediate Accounting II (3)**Fall:** All Years **Spring:** All Years

Valuation and reporting of investments, liabilities, leases, pensions, deferred taxes, owners' equity/EPS and cash flows, including financial analysis and disclosures. Continues development of research skills using FARS. **Prerequisite:** ACCT 330

ACCT 340 Introduction to Taxation (3)**Fall:** All Years **Spring:** All Years

Outline of federal tax system: tax elements of business planning, including capital investment and employment decisions. **Prerequisite:** ACCT 231

ACCT 350 Cost Accounting (3)**Spring:** All Years

Emphasis on costing systems, including job order and process costing, joint and operation costing, ABC, variable costing and standard costing with variance analysis. **Prerequisite:** ACCT 231

ACCT 420 International Accounting (3)**Fall:** All Years

Focus on current applied managerial and financial methodologies in the international environment. Theoretical and philosophical arguments will be presented and discussed concerning the world-wide diversity of accounting policies.

Prerequisite: ACCT 231**ACCT 430 Advanced Accounting (3)****Fall:** All Years

Study of consolidations, partnerships, and other advanced topics. Continues development of research skills using FARS. **Prerequisite:** ACCT 331

ACCT 431 Non-Profit Accounting (3)**Spring:** All Years

Study of accounting, legal, and tax issues of governmental and other not-for-profit entities.

Prerequisite: ACCT 330**ACCT 441 Individual Income Tax (3)****Spring:** All Years

Fundamentals of federal income tax preparation for individuals. **Prerequisite:** ACCT 340

ACCT 443 Corporate/Partnership Tax (3)**Fall:** All Years

Tax planning and return preparation for corporations, S corporations, and partnerships.

Prerequisite: ACCT 340**ACCT 446 Estate, Gift and Trust Taxation (3)****Fall:** All Years

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of estate planning. Same as PARA 446. **Prerequisite:** ACCT 340

ACCT 460 Audit I (3)**Fall:** All Years

Coverage includes the theory of auditing, generally accepted auditing standards, audit reports, quality control, ethical decisions, accountants' liability, fraud detection, audit objectives and procedures, management assertions, audit planning analytical review, risk analysis, internal control evaluation, and tests of controls. **Prerequisite:** ACCT 331

ACCT 461 Audit II (3)**Spring:** On Demand

Coverage includes the concepts of testing balances, auditing by cycles, audit sampling and applications, and compilation and review engagements. There will be additional coverage of generally accepted auditing standards, audit reports, quality control, fraud detection audit objectives and procedures, management assertions, audit planning, analytical review, risk analysis, internal control evaluation, and tests of controls. The course will include an integrated audit case. **Prerequisite:** ACCT 460

ACCT 469 Internship (1-12)**Fall:** On Demand **Spring:** On Demand

Practical experience in accounting.

Prerequisite: ACCT 231, ACCT 315**ACCT 490 Topics in Accounting (1-3)****Fall:** On Demand **Spring:** On Demand

This course may be repeated since content may vary.

American Multicultural Studies**AMCS 100 [2] America's Mosaic (3)****Fall:** All Years **Spring:** All Years

This course is an introduction to the cultural experiences of historically underrepresented cultures in the U.S. (African American, American Indian, Hispanics, and Asian Americans). The purpose of this course is to make sense of the diversity between and within cultures.

AMCS 102 [F1] Contemporary American Indians (3)**Fall:** All Years

The political, economic and social issues of the indigenous peoples of North America, focusing on the past quarter century of both reservation and urban Indians.

AMCS 103 [F1] Contemporary Chicanos (3)

Fall: On Demand **Spring:** On Demand
Political, economic and social developments within the Chicano community.

AMCS 190 Topics in American Multicultural Studies (1-3)

Fall: On Demand **Spring:** On Demand
Exploration of a specific American Multicultural Studies topic. This course may be repeated as topic varies.

AMCS 202 [F1] Traditional American Indian Cultures (3)

Fall: All Years **Spring:** All Years
A historical perspective on living, traditional cultures of American Indian groups. Topics include tribal entities, religion, arts, life-styles and ecological adaptations. Same as ANTH 202.

AMCS 203 [F1] Chicano Culture (3)

Fall: On Demand **Spring:** On Demand
Key aspects of Chicano culture with an emphasis on literature, history and philosophy.

AMCS 210 [F1] African American Humanities: Roots (4)

Fall: On Demand **Spring:** On Demand
A multidisciplinary survey of the forces shaping the arts and humanities of African Americans from the cultural resources of African traditional roots and American slave experiences through the 20th century.

AMCS 211 [F1] Contemporary African Americans (3)

Fall: On Demand **Spring:** On Demand
Political, economic, and social issues of contemporary African Americans within the United States since the post Civil Rights era.

AMCS 225 [F1] Ojibwe Culture (3)

Fall: Even Years **Spring:** Odd Years
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.

AMCS 233 [F1] Education and Multicultural America (3)

Fall: On Demand
This course provides an introduction to multicultural fundamentals for education majors. Given that the United States is becoming more culturally diverse and operates with an increasingly globalized world, future teachers need to be equipped to understand the diverse cultures with which they work and from which their students come. It exposes students to the marvelous complexity and diversity of African Americans, American Indians, Chicano/Latinos and Asian Americans from historical and contemporary perspectives. The course content demystifies stereotypes and myths attributed to diverse groups and stresses the need for equitable access to quality education.

AMCS 270 American Indian Education (3)

Spring: On Demand
This course is an overview of the nature, purpose, philosophy and programs of traditional and contemporary American Indian education. It is 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. Classroom methods and curriculum materials designed for Indian students as well as those designed for introducing non-Indian students to Indian culture will be discussed and evaluated.

AMCS 290 Topics in American Multicultural Studies (1-3)

Fall: On Demand **Spring:** On Demand
Exploration of a specific American Multicultural Studies topic. This course may be repeated as topic varies.

AMCS 300 Theories and Methods in American Multicultural Studies (3)

Fall: On Demand **Spring:** On Demand
This course is an introduction to theories, issues and research methodologies in American Multicultural Studies. This course is open to majors and minors who have successfully completed at least two AMCS courses.

AMCS 301 [F1] African American Music (3)

Fall: On Demand
A survey of African American non-jazz musicians and music traditions.

AMCS 303 [F1] Latinos in the United States (3)**Spring:** On Demand

An interdisciplinary study of the diversity of the culture, history, economic and political situation of the Latino population in the United States.

AMCS 311 [F1] African American Art (2)**Fall:** On Demand

An appreciation and understanding of the art and artists of Black America from the beginning of their folk art expression to the present.

AMCS 312 [F1] Origins of Multicultural America (4)**Fall:** All Years

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.

AMCS 313 [F1] Modern Multicultural America (4)**Spring:** All Years

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 312.

AMCS 315 [F1] African American Images in Film (3)**Fall:** On Demand**Spring:** On Demand

This course is a broad survey of selected 20th/21st century films by and for African Americans. It introduces students to filmmakers, actors, and themes in African American film. Through this course, students explore the aesthetic dimensions of film as a medium of African American creative and political expression.

AMCS 319 [F1] Plains Indian Cultures (3)**Fall:** On Demand

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. Same as ANTH 319.

Prerequisite: ANTH 110 or ANTH 202 or AMCS 202**AMCS 320 [F1] American Indian Belief Systems (3)****Spring:** All Years

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. Same as ANTH 320.

Prerequisite: ANTH 110 or ANTH 202 or AMCS 202**AMCS 325 [F1] African American Theatre (3)****Spring:** On Demand

Survey of selected plays by African American writers from the 19th and 20th centuries. Focus on aesthetic and interpretative dimensions grounded in African American historical and cultural contexts. AMCS 210 or 211 or THTR 220 are highly recommended as prerequisites.

AMCS 332 [F1] Indians of the Southwest (3)**Fall:** Odd Years

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. Same as ANTH 332.

AMCS 372 [F1] Dynamics of Prejudice and Oppression (4)**Spring:** On Demand

An examination of philosophical dimensions, dynamics and consequences of prejudices and oppression based on race, class, gender, sexual orientation and ability. Students will be expected to recognize, critically analyze and identify both shared and unique structural dimensions of various forms of oppression and discuss potential strategies for dismantling oppression. No more than 3 credits to be applied to the Philosophy major.

AMCS 390 Topics in American Multicultural Studies (1-3)**Fall:** On Demand**Spring:** On Demand

Exploration of a specific American Multicultural Studies topic. This course may be repeated as topic varies.

AMCS 461 Readings: American Multicultural Studies (1-3)**Fall:** On Demand**Spring:** On Demand

Independent reading and research.

AMCS 469 Internship (3-12)**Fall:** On Demand **Spring:** On Demand

A supervised, practical experience in the field.

AMCS 498 Capstone Seminar in American Multicultural Studies (3)**Fall:** On Demand **Spring:** On Demand

As a capstone requirement, students will demonstrate their mastery of interdisciplinary research skills through the development of a research project on a given seminar theme in American Multicultural Studies. Themes vary each year. Possible themes are: Civil Rights, Education, Popular Culture, Folklore, Women's Studies, Interracial Relationships. This course is open to majors of junior/senior standing and minors with permission. **Prerequisite:** AMCS 300

American Studies

AMST 117 [D1/6] Introduction to the American Culture (3)**Fall:** All Years

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 [D1] 20th Century I (4)**Fall:** All Years

A study of representative works of literature, art, architecture and music as they reflect central themes of the 20th century to World War II.

AMST 222 [D1] 20th Century II (4)**Spring:** All Years

A study of representative works of literature, art, architecture and music as they reflect central themes from 1940 to present.

AMST 317 [D] The Midwest (3)**Fall:** On Demand **Spring:** On Demand

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. **Prerequisite:** AMST 217, AMST 217

AMST 350 [D1] American Popular Culture (3)**Fall:** On Demand **Spring:** On Demand

An interdisciplinary course that examines theoretical approaches to the study of the historical development of popular culture in the United States. Issues of gender, race and ethnicity, and class identity will be presented. Texts will include film, music, dance, fiction.

AMST 390 Topics in American Culture (1-3)**Fall:** On Demand

An interdisciplinary approach to a selected issue or era in American life. Topics vary.

AMST 417 Seminar: Violence in American Culture (4)**Spring:** Odd Years

This seminar focuses on violence in American culture. Selected problems in American culture, employing the objectives and approach of interdisciplinary studies. Emphasis upon student research and writing.

Prerequisite: AMST 217, AMST 317**AMST 419 Success in American Society (4)****Fall:** All Years

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

AMST 420 Directed Reading in American Studies (1-3)**Fall:** On Demand **Spring:** On Demand

Tutorial in American Studies.

Prerequisite: AMST 217**AMST 469 Student Internship (1-12)****Fall:** On Demand **Spring:** On Demand

A supervised, practical experience in the field.

Prerequisite: AMST 217

Anthropology

ANTH 100 [F/2] Debating Humankind (3)**Fall:** All Years **Spring:** All Years

Designed to instruct students in critical thinking skills using multicultural examples spanning time and space. Students will review and engage in a series of debates, including among others, topics on race, the importance and nature of science, cultural norms, how humans are different from other animals, and the validity of research methods presently used in social science.

ANTH 110 [F/7] Introduction to Cultural Anthropology (3)**Fall:** All Years **Spring:** All Years

Introduction to the concept of culture and to the study of language.

ANTH 115 [C/5] Introduction to Archaeology (3)**Fall:** All Years **Spring:** All Years

Review of archaeological study with special emphasis on the interdisciplinary nature of archaeology.

Archaeological methods and techniques are explained as aspects of the process of discovery. Introduction to the major phases in human culture history from the earliest toolmakers to the rise of civilization.

ANTH 120 [B] Introduction to Physical Anthropology (3)**Fall:** All Years **Spring:** All Years

A survey of the field of physical anthropology. The course will include a review of the fossil record, concentrating on theories about human evolution. Other topics include taphonomy, primate behavior and taxonomy, and the origins of contemporary human variation.

ANTH 202 [F1] American Indian Culture (3)**Fall:** All Years **Spring:** All Years

A historical perspective on living, traditional cultures of American Indian groups. Topics include tribal entities, religion, arts, life-styles and ecological adaptations.

ANTH 210 [F1] Midwest/Plains Prehistory (3)**Fall:** On Demand **Spring:** On Demand

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 216 [C/5] The Paleolithic Age (3)**Fall:** Odd Years

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 [C] The Rise of Civilization (3)**Spring:** Even Years

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 220 [F] Peoples and Cultures of Africa (3)**Spring:** All Years

An anthropological survey of the major cultural areas of the African continent with particular reference to sub-Saharan Africa.

ANTH 265 Language and Culture (3)**Fall:** On Demand **Spring:** On Demand

The relationship between language and culture with emphasis on historical linguistics, sociolinguistics, psycholinguistics, and ethnolinguistics.

Prerequisite: ANTH 110**ANTH 270 [B] Human Biological Variation (3)****Spring:** On Demand

This course examines from an evolutionary perspective, the biological and physiological variation of modern humans. Principles of evolutionary biology and population genetics are used to explain the incidence and distribution of various human traits.

Prerequisite: ANTH 120**ANTH 290 Topics in Anthropology (2-3)****Fall:** On Demand **Spring:** On Demand

Topics from the subdisciplines of anthropology.

Prerequisite: ANTH 115, ANTH 110**ANTH 300 Archaeology (3)****Fall:** Even Years

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 115**ANTH 301 Archaeological Prospection (3)****Fall:** On Demand **Spring:** On Demand

Examination of geophysical prospecting methods available for archaeological research. Emphasis on the conceptual basis of different prospecting methods and their application in archaeological and geotechnical studies. Hands-on experience with geophysical instruments. **Prerequisite:** ANTH 115

ANTH 303 [F] Cross Cultural Gender (3)**Spring:** On Demand

A survey of gender roles in various cultures. This class examines the relationship of gender to kinship, economics, political and biological factors. It also addresses culture change and the effect on gender role assignments. **Prerequisite:** ANTH 110

ANTH 306 Medical Anthropology (3)**Fall:** On Demand **Spring:** On Demand

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

ANTH 307 Ecological Anthropology (3)**Fall:** On Demand **Spring:** On Demand

An anthropological examination of cultural adaptation to the environment. Detailed analysis of the major human subsistence strategies in diverse ecological settings worldwide. **Prerequisite:** ANTH 110

ANTH 315 [F1] North American Archaeology (3)**Spring:** Odd Years

An overview of the prehistory of North America from the end of the Ice Age. **Prerequisite:** ANTH 115

ANTH 316 [F] Magic, Witchcraft and Religion (3)**Spring:** On Demand

Introduction to the study of religion in cross cultural perspective. The origins of supernatural beliefs will be studied. Functional and non-functional explanations of religious beliefs will be examined. The relationship between culture change and religious movements will be explored. **Prerequisite:** ANTH 110

ANTH 318 [C/5] Archaeology and the Bible (3)**Fall:** On Demand

Review of the archaeological record of Palestine during the time periods represented in the biblical chronology. Subjects highlighted are the Near Eastern origins of agriculture, the rise of urbanism, imperial context of Syria-Palestine, and the history of the peoples of ancient Palestine as known from archaeological materials. **Prerequisite:** ANTH 115

ANTH 319 [F1] Plains Indian Cultures (3)**Fall:** On Demand

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. **Prerequisite:** ANTH 110 or ANTH 202 or MCS 202

ANTH 320 [F1] American Indian Belief Systems (3)**Spring:** On Demand

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. **Prerequisite:** ANTH 110 or ANTH 202 or MCS 202

ANTH 325 Reading Landscape: Ways of Seeing (3)**Spring:** On Demand

Explores the landscape concept as developed and applied within anthropology and the geosciences. Considers the interaction of culture and perception in the way we view our physical world.

ANTH 332 [F1] Indians of the Southwest (3)**Fall:** On Demand

Indians of the Southwest 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. Same as AMCS 332.

ANTH 348 [C] Ideas of Culture (3)**Fall:** On Demand **Spring:** On Demand

Presentation of the major schools of thought in the history of anthropology and related social sciences from the 19th and 20th centuries. The course includes discussion of evolutionism, historicism, functionalism, structuralism and contemporary social theories. **Prerequisite:** ANTH 110

ANTH 350 Geoarchaeology (3)**Spring:** On Demand

Examines the application of Geosciences methods and techniques to archaeological deposits and materials. Emphasis on critical evaluation and interpretation of geoarchaeological data using a series of case studies. **Prerequisite:** ANTH 115 or GEOS 117

ANTH 380 [F] Traditional Cultures (3)**Spring:** On Demand

An examination of traditional cultures before widespread westernization, including a review of the anthropological literature, such as ranking, non-market exchange and systems of production, domestic organization, power, authority, and traditional religious systems. **Prerequisite:** ANTH 110

ANTH 445 Seminar in Anthropology (3)**Fall:** On Demand **Spring:** On Demand

Selected topics in Anthropology. Students are expected to do research in subjects related to the topic of the course. May be repeated when topic varies.

Prerequisite: ANTH 110, ANTH 115, ANTH 120**ANTH 450 Field Work in Anthropology (6)**

An applied course in archaeology involving excavations at archaeological sites during the summer months. Emphasis on field techniques including map reading, photography, excavation techniques, artifact processing and analysis. **Prerequisite:** ANTH 115

ANTH 451 Archaeology Lab (2-4)**Spring:** On Demand

Laboratory training in archaeology including inventory, treatment and curation of collections, basic laboratory drawing, photography, data entry and reporting. Students will work on collections from regional archaeological sites. **Prerequisite:** ANTH 115

ANTH 455 Field Methods in Geoarchaeology (4)

Provides field experience with a variety of geoarchaeological techniques applied within the context of an interdisciplinary research program. Research design and the research process will also be emphasized. In addition to the listed pre-requisite, students must have taken at least one introductory course in geology. **Prerequisite:** ANTH 115

ANTH 460 Ethnographic Research Methods (3)**Spring:** On Demand

Presentation of appropriate methods for conducting field research in cultural anthropology. This includes: research design, sampling strategies, participant-observation, questionnaire formulation, interviewing techniques, and report writing.

Prerequisite: ANTH 110**ANTH 469 Internship in Anthropology (2-10)****Fall:** All Years **Spring:** All Years

A supervised, practical experience in the field.

ANTH 497 Research in Anthropology (1-5)**Fall:** All Years **Spring:** All Years

Research in anthropology under the supervision of a member of the faculty.

Art and Design**ART 100 [D] Elements of Art (3)****Fall:** All Years **Spring:** All Years

The course focuses on the basic principles of creative design. Studio studies encourage the experimental use of various media in drawing and painting. Students are expected to complete a weekly creative design project.

ART 101 Basic Drawing I (4)**Fall:** All Years

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

ART 102 Basic Drawing II (4)**Spring:** All Years

Intermediate visual inquiry using representational and imaginative studies. Use of composition, color and contemporary concepts of drawing emphasized. Wet media and figure drawing included.

Prerequisite: ART 101**ART 125 Foundation Design I (4)****Fall:** All Years

Introduction to elements and principles of visual language, color, form/shape, line, space and texture as they relate to basic design. The course will include an introduction to constructive, perceptual, symbolic and expressive aspects of color within a variety of relationships.

ART 126 Foundation Design II (4)**Spring:** All Years

Introduction of the basic 3-dimensional concepts of visual organization (line, plane, volume, shape, form). Exploration of object-making with clay, wire, paper, foam and wood, emphasizing technical skills, craftsmanship and communication abilities.

Prerequisite: ART 125**ART 170 [D1/6] Art Appreciation: Content and Form (3)****Fall:** All Years **Spring:** All Years

Designed for non-art majors, this course introduces basic visual arts vocabulary and design concepts. The course also provides a historical framework and introduction to the diverse media in the visual arts.

ART 200 Individualized Studies (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

Prerequisite: ART 125, ART 126

ART 203A Introduction to Ceramics and Clay Processes (4)

Fall: All Years **Spring:** All Years
 An introduction to the technical and aesthetic issues involved in working with clay. The course covers the fundamental techniques used on the potter's wheel and in handbuilding with clay. Slip work and glazing are also covered. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 203B Introduction to Graphic Design (4)

Fall: All Years **Spring:** All Years
 Studio inquiry into the nature of graphic design. Including: Visual problem-solving, introduction to typography, symbols, lettermarks, logotypes, publication design, information design, three-dimensional design, as well as client/designer relations, studio operations and production procedures. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 203C Introduction to Painting (4)

Fall: All Years **Spring:** All Years
 Study of basic materials, techniques, and formal issues of painting. Topics include historical and contemporary painting approaches. Emphasis on oil and acrylic painting media. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 203D Introduction to Printmaking (4)

Fall: All Years **Spring:** All Years
 An introduction to relief printing, intaglio, lithography and serigraphy. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 203E Introduction to Sculpture (4)

Fall: All Years **Spring:** All Years
 Survey of basic materials, methods, techniques, and concepts associated with space and sculptural forms. Topics include wood and steel construction and fabrication, bronze casting, and mold making. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 203F Introduction to Photography (4)

Fall: All Years **Spring:** All Years
 Introduction to photographic equipment, materials, processes, and philosophy. Includes experiments with paper, film, small camera operation, roll-film processing, enlarging, mounting, and matting. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 203H Introduction to Figure Drawing (4)

Fall: All Years **Spring:** All Years
 Studies from live models emphasizing interpretation and anatomical accuracy. **Prerequisite:** ART 101, ART 102

ART 203K Introduction to Fiber/Textile Design (4)

Fall: On Demand **Spring:** On Demand
 Introduction to a variety of surface and three-dimensional design techniques as they apply to textiles and fiber materials and forms. Printing on fabric, dying, batik, applique, weaving, basketry, felting and papermaking will be explored. A survey of textile history and past and contemporary artists is also addressed.

ART 203L Introduction to Illustration (4)

Fall: All Years **Spring:** On Demand
 Study of basic concepts of pictorial illustration. Traditional and contemporary trends in image making also adaptable for publishing in narrative. Content exploration in the areas of advertising, editorial and scientific illustration. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 210 Introduction to Watercolor (3)

Fall: On Demand **Spring:** On Demand
 Techniques and creative expression in water media. Emphasis on transparent watercolor. Representational and non-objective approach. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

ART 220 Papermaking (4)

Fall: On Demand **Spring:** On Demand
 Survey of materials, methods and techniques of hand papermaking. **Prerequisite:** ART 125

ART 233 [D1] History of Art I: Prehistory through the Middle Ages (4)

Fall: All Years
 Survey of architecture, painting, and sculpture in their historical and cultural contexts from Prehistory through the Middle Ages.

ART 234 [D1] History of Art II: Renaissance through Modern (4)

Spring: All Years
 Survey of architecture, painting and sculpture in their historical and cultural contexts from the Renaissance to the contemporary world.

ART 290 Topics in Art (1-4)

Fall: On Demand **Spring:** On Demand
 Studio, seminar or discussion of topics not included in other art courses. Up to three credits may be applied to the major.

ART 298 Gallery Management (1-2)

Fall: On Demand **Spring:** On Demand
 A study of the design installation and lighting of exhibitions of art, documentation, public relations, publicity and financial management. Repeatable to 6 credits.

ART 300 Individualized Studies (1-6)

Fall: All Years **Spring:** All Years
Individualized instruction in media not regularly offered in studio concentrations.

ART 303A Intermediate Pottery/Wheel Throwing (4)

Spring: All Years
An in-depth investigation involving the skills, techniques, and aesthetics of forms thrown on the potter's wheel. Exercises in decorating as well as firing are included. Students may take 303A, 304A, and 305A in any order. **Prerequisite:** ART 203A

ART 303B Graphic Design Studio (4)

Fall: All Years **Spring:** All Years
In-depth studio investigations in selected areas of graphic image making and planning, i.e. symbols, typography, information design, visual concepts, displays, packaging, and illustrative and photographic applications. **Prerequisite:** ART 203B

ART 303C Painting Studio (4)

Fall: All Years **Spring:** All Years
Strengthens the development of introductory level technical skill, media investigation, compositional elements and conceptual ideas.
Prerequisite: ART 203C

ART 303D Printmaking Studio (4)

Fall: All Years **Spring:** All Years
Development of the technical facility and appropriate imagery in any one of the traditional printmaking media such 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. **Prerequisite:** ART 203D

ART 303E Intermediate Sculpture (4)

Fall: All Years **Spring:** All Years
Technical development of casting methods and mold making techniques in conjunction with concept development, using materials such as bronze, resin, plaster, concrete, polyurethane and silicone rubbers, clay, and wax. ART 303E, 304E, and 305E may be taken out of sequence as long as all three courses are completed before registering for ART 404E and 405E.
Prerequisite: ART 203E

ART 303F Photography Studio (4)

Spring: All Years
This course addresses aesthetic and technical concerns in photography. Instruction includes darkroom experimentation with papers, toners, and films and experimentation with lighting techniques. Special emphasis is given to projects involving the development of camera vision and conceptual ideas.
Prerequisite: ART 203F

ART 303H Figure Drawing II (4)

Spring: All Years
Intermediate study from life models emphasizing the figure in composition, using a variety of media. May be repeated for up to eight credits.
Prerequisite: ART 203H

ART 304A Intermediate Handbuilding/Ceramic Sculpture (4)

Fall: All Years
This course delves into the techniques of producing larger sculptural objects as well as conceptual approaches to sculpture. The course also introduces the use of paperclay and alternative surface effects appropriate to sculptural work. Students may take 303A, 304A, and 305A in any order.
Prerequisite: ART 203A

ART 304B Graphic Design Studio (4)

Fall: All Years
This is Part 1 of the junior year for Art and Design majors choosing the option in Graphic Design. In ART 304B, you will begin to study systems designed to create an overall aesthetic and related visual program for a particular project. Emphasis is placed on research and development to support a strong visual concept. Part 1 begins with logo development and applications to various elements within a fictitious business, such as: stationary, envelope, business card, signage, etc. The course will also include multiple symbol development with visual relationships. **Prerequisite:** ART 303B

ART 304C Painting Studio (4)

Fall: All Years
Refinement of technical facility and concentration on the subjects of portraiture and figure painting. In-depth studio investigation in historical and contemporary figure painting.
Prerequisite: ART 303C

ART 304D Printmaking Studio (4)**Fall:** All Years

Students may choose any combinations of relief, intaglio, lithography, monoprinting, or screenprinting. Printmaking processes are taught beyond the introductory level. Non-toxic processes are explored. Students may take ART 304D and 305D in any order.

Prerequisite: ART 303D**ART 304E Sculpture Studio (4)****Fall:** All Years

This course covers the progression and further development of technical skill, media investigation, and concept development in wood and steel. ART 303E, 304E, and 305E may be taken out of sequence as long as all three courses are completed before registering for ART 404E and 405E.

Prerequisite: ART 203E**ART 304F Photography Studio (4)****Fall:** All Years

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: ART 303F**ART 304H Drawing Studio (4)****Fall:** All Years**Spring:** On Demand

Refinement of previously acquired introductory knowledge and experimentation at the intermediate level. The emphasis is on strengthening visual language skill through observational study using perceptual learning models. In conjunction with the faculty member, each student will develop a contractual agreement of study for the final weeks of the semester based on individual interests in both media and concept. Students may take ART 304H and 305H in any order.

Prerequisite: ART 200H or ART 203H**ART 305A Technical Ceramics (4)****Spring:** Even Years

Explores the fundamentals of glaze and clay chemistry with an emphasis on glaze development and coloration. Students also investigate firing theory, image transfers, mold making and slip casting. Students may take 303A, 304A, and 305A in any order. **Prerequisite:** ART 203A

ART 305B Graphic Design Studio (4)**Spring:** All Years

This is Part 2 of the junior year for Art and Design majors choosing the option in Graphic Design. In ART 305B, further exploration into systems will include integrated design approaches to visual concepts, diagrams, and 3D graphics.

Prerequisite: ART 303B, ART 304B**ART 305C Painting Studio (4)****Spring:** All Years

Further development of conceptual and formal qualities of painting for a variety of topics and media. Individual research in historical or technical fields is encouraged. Emphasis on investigation of form, composition, color, space and imagery.

Prerequisite: ART 304C**ART 305D Printmaking Studio (4)****Spring:** All Years

A continuation of study begun in ART 304D. Students may choose any combinations of relief, intaglio, lithography, monoprinting, or screenprinting. Printmaking processes are taught beyond the introductory level. Non-toxic processes are explored. Personal expression is encouraged. Students may take ART 304D and 305D in any order.

Prerequisite: ART 303D**ART 305E Sculpture Studio (4)****Spring:** All Years

The emphasis of this course is on traditional and non-traditional interpretations of the human figure as format subject matter and as a vehicle for further concept development. ART 303E, 304E, and 305E may be taken out of sequence as long as all three courses are completed before registering for ART 404D and 405E. **Prerequisite:** ART 203E

ART 305F Photography Studio (4)**Spring:** All Years

A continuation of study begun in ART 304F. 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: ART 303F

ART 305H Drawing Studio (4)

Fall: On Demand **Spring:** All Years
Refinement of previously acquired introductory knowledge and experimentation at the intermediate level, based on an initial contractual agreement between student and instructor. Continued investigation of media, including color, and conceptual emphasis. Students may take ART 304H and 305H in any order. **Prerequisite:** ART 203H

ART 310 Watercolor (4)

Fall: On Demand **Spring:** On Demand
Creative painting in transparent and opaque watercolor. Painting problems and solutions.
Prerequisite: ART 210

ART 320 [D] Philosophy of the Arts (3)

Fall: On Demand **Spring:** On Demand
Philosophical questions in fine arts. Topics include the nature of art and aesthetic experience and criticism. Same as PHIL 320. **Prerequisite:** PHIL 101 or PHIL 105

ART 338 [F] Non-Western Art (4)

Fall: On Demand **Spring:** On Demand
Survey of the principal art forms of Non-Western cultures, with emphasis on their cultural and philosophical context. Topics vary, but may include consideration of the art forms of Africa, Oceania, Pre-Columbian America, as well as India, China and Japan. **Prerequisite:** ART 233, ART 234

ART 350 Methods and Materials: Art for the Elementary Classroom (3)

Fall: All Years **Spring:** All Years
Students investigate materials and techniques for creating meaningful expression in the visual arts. Theoretical topics include: developmental stages of children's art making, lesson planning, curriculum development, assessment, organizing museum/gallery experiences for children and integrating art into the elementary curriculum. **Prerequisite:** ED 205, ED 205E

ART 375 Art Methods 7-12 (3)

Fall: All Years
A preparatory course for art teachers, required for students majoring in Art Education. The course focuses on current practices in secondary art education, curriculum development, DBAE lesson planning, classroom management, assessment, and application of Minnesota and National Standards for learning in the Visual Arts. **Prerequisite:** ART 101, ART 102, ART 125, ART 126, ART 350

ART 390 Topics in Art (1-4)

Fall: All Years **Spring:** All Years
Studio, seminar or discussion of topics not included in other art courses. This is a topical course and may be repeated when the topic changes.

ART 400 Individualized Studies (1-6)

Fall: All Years **Spring:** All Years
Individualized instruction in media not regularly offered in studio concentrations.

ART 402 Advanced Methods: Art Education (3)

Spring: All Years
Developing, planning, and presenting art experiences to K-12 students will be the primary component of this course. Topics concerning the art room environment, safety, ordering supplies, current topics in art education, and professional preparation are also addressed. **Prerequisite:** ART 350, ART 375

ART 404A Ceramics Studio (4)

Fall: All Years **Spring:** All Years
Individual contracts are employed to allow students to seek their own voice and direction in ceramics, preparing them to continue as active individually expressive artists after graduation. Work produced is frequently connected to the senior exhibition. Students may take ART 404A and 405A in any order. **Prerequisite:** ART 303A, ART 304A, ART 305A

ART 404B Graphic Design Studio, Contracted Work (4)

Fall: All Years **Spring:** All Years
Advanced studio work with contracted visual problems and production by the students. Portfolio preparation is emphasized. Students are required to have completed ART 305B prior to enrolling in this class. **Prerequisite:** ART 305B

ART 404C Painting Studio (4)

Fall: All Years
Advanced studio work with individual student research of painting in topic and medium of particular interest to the student, based on 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: ART 305C

ART 404D Printmaking Studio (4)**Fall:** All Years

Students may choose any combination of the printmaking processes (relief, intaglio, lithography, screenprinting, monoprinting), but are asked to specialize in one process for the final semester of 400 level studio. Color processes are emphasized. Personal expression is expected. Students may take ART 404D and 405D in any order.

Prerequisite: ART 303D, ART 304D, ART 305D**ART 404E Sculpture Studio (4)****Fall:** All Years

Emphasis on professional development and individual student investigation of methods, materials, and concepts intended for the development of a personal visual vocabulary resulting in a cohesive body of work. Students must have completed ART 303E, 304E, and 305E prior to enrolling in this class. Students may take ART 404E and 405E in any order.

Prerequisite: ART 303E, ART 304E, ART 305E**ART 404F Photography Studio (4)****Fall:** All Years**Spring:** All Years

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. Students are required to have completed ART 304F and 305F prior to enrolling in this class.

Prerequisite: ART 304F, ART 305F**ART 404H Drawing Studio (4)****Fall:** All Years**Spring:** On Demand

Further development of conceptual and formal qualities of drawing in media 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. Students must have completed eight credits of ART 304H, 305H, or 303H prior to enrolling in this class. Students may take ART 404H and 405H in any order.

Prerequisite: ART 303H, ART 304H, ART 305H**ART 405A Ceramics Studio (4)****Fall:** All Years**Spring:** All Years

A continuation of study begun in ART 404A. Individual contracts are employed to allow students to seek their own voice and direction in ceramics, preparing them to continue as active individually expressive artists after graduation. Work produced is frequently connected to the senior exhibition. Students may take ART 404A and 405A in any order.

Prerequisite: ART 303A, ART 304A, ART 305A**ART 405B Graphic Design Studio, Contracted Work (4)****Fall:** All Years**Spring:** All Years

A continuation of study begun in ART 404B. Advanced studio work with contracted visual problems and production by the students. Portfolio preparation is emphasized. Students are required to have completed ART 404B prior to enrolling in this class.

Prerequisite: ART 404B**ART 405C Painting Studio (4)****Spring:** All Years

Further development of advanced studio work. Emphasis on production of cohesive body of work, portfolio preparation, professional presentation, and senior exhibition.

Prerequisite: ART 404C**ART 405D Printmaking Studio (4)****Spring:** All Years

A continuation of study begun in ART 404D. Students may choose any combination of the printmaking processes (relief, intaglio, lithography, screenprinting, monoprinting), but are asked to specialize in one process for the final semester of 400 level studio. Color processes are emphasized. Personal expression is expected. Students may take ART 404D and 405D in any order.

Prerequisite: ART 304D, ART 305D**ART 405E Sculpture Studio (4)****Spring:** All Years

A continuation of study begun in ART 404E. Emphasis on professional development and individual student investigation of methods, materials, and concepts intended for the development of a personal visual vocabulary resulting in a cohesive body of work. Students must have completed ART 304E, and 305E prior to enrolling in this class. Students may take ART 404E and 405E in any order.

Prerequisite: ART 304E, ART 305E

ART 405F Photography Studio (4)**Fall:** All Years **Spring:** All Years

A continuation of study begun in ART 404F. 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. Students are required to have completed ART 304F and 305F prior to enrolling in this class.

Prerequisite: ART 304F, ART 305F**ART 405H Drawing Studio (4)****Fall:** On Demand **Spring:** On Demand

Continued emphasis on the development of a cohesive body of drawings showing an increased coordination of technical, formal and conceptual expertise in the context of personal imagery. Preparation of work for the required final exhibition or application for the B.F.A. program. Students must have completed eight credits of ART 304H, 305H, or 303H prior to enrolling in this class. Students may take ART 404H and 405H in any order.

Prerequisite: ART 304H, ART 305H or ART 303H**ART 408 Women and Art (4)****Fall:** On Demand **Spring:** On Demand

This course examines the history of women artists as well as the representation of women as subjects in art. The course also provides a historical introduction to feminist art history and methodology.

ART 410 Ancient Art (4)**Fall:** On Demand **Spring:** On Demand

History of architecture, painting, and sculpture in Ancient Greece, Etruria and Rome.

Prerequisite: ART 233, ART 234**ART 411 Medieval Art (4)****Fall:** On Demand **Spring:** On Demand

History of the art and architecture of the Byzantine and Western Medieval cultures.

Prerequisite: ART 233, ART 234**ART 420 Renaissance Art (4)****Fall:** On Demand **Spring:** On Demand

Renaissance and Mannerist art and architecture in Italy and Northern Europe.

Prerequisite: ART 233, ART 234**ART 421 Baroque Art (4)****Fall:** On Demand **Spring:** On Demand

Seventeenth- and Eighteenth-Century European painting, architecture, and sculpture.

Prerequisite: ART 233, ART 234**ART 430 Nineteenth Century Art (4)****Fall:** On Demand **Spring:** On Demand

History of Nineteenth-Century painting, sculpture, photography and architecture, including Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism.

Prerequisite: ART 233, ART 234**ART 431 Twentieth Century Art (4)****Fall:** On Demand **Spring:** On Demand

History of Twentieth-Century avant-garde painting, sculpture, photography and architecture, from Art Nouveau to Pop Art. **Prerequisite:** ART 233, ART 234

ART 433 Modern Architecture (3)**Fall:** On Demand **Spring:** On Demand

Architecture of the late 19th and 20th centuries. The materials, techniques and forms of the architectural conception. **Prerequisite:** ART 233, ART 234

ART 434 American Art (4)**Fall:** On Demand **Spring:** On Demand

Survey of architecture, painting and sculpture in America from Colonial times to the present.

Prerequisite: ART 233, ART 234**ART 450 Contemporary Art, Design, and Theory (4)****Spring:** All Years

This seminar course is designed as a capstone course for art majors. Emphasis will be placed on major art movements and theoretical concepts from 1945 to the present day. In addition to the listed prerequisites, students must complete one upper-level art history course prior to enrolling in this class.

Prerequisite: ART 233, ART 234**ART 451A Ceramic Studio (4-12)****Fall:** All Years

Assuming that the accepted student has mastered all of the preceding experiences and has presented a portfolio demonstrating high competency, the hours devoted to the BFA program are concentrated on a single-minded project in ceramics-decorating, glazing, firing, formal elements and/or sets and other explorations. Students must complete ART 404A and 405A prior to enrolling in this class.

Prerequisite: ART 404A, ART 405A**ART 451B Graphic Design Studio (4-12)****Fall:** All Years

Senior project preparation for BFA candidacy fulfillment, portfolio preparation, and project presentation. Students must complete ART 404B and 405B prior to enrolling in this class.

Prerequisite: ART 404B, ART 405B

ART 451C Painting Studio (4-12)**Fall:** All Years

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. Students must complete ART 404C and 405C prior to enrolling in this class.

Prerequisite: ART 404C, ART 405C**ART 451D Printmaking Studio (4-12)****Fall:** All Years

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. Students must complete ART 404D and 405D prior to enrolling in this class.

Prerequisite: ART 404D, ART 405D**ART 451E Sculpture Studio (4-12)****Fall:** All Years

Self-directed and in-depth development of personal imagery resulting in a skillfully executed and conceptually sound body of work suitable for professional presentation in required BFA Exhibition. Students must complete ART 404E and 405E prior to enrolling in this class.

Prerequisite: ART 404E, ART 405E**ART 451F Photography Studio (4-12)****Fall:** All Years

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. Students must complete ART 404F and 405F prior to enrolling in this class. **Prerequisite:** ART 404F, ART 405F

ART 451H Drawing Studio (4-12)**Fall:** All Years

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. Students must complete ART 404H and 405H prior to enrolling in this class.

Prerequisite: ART 404H, ART 405H**ART 452A Ceramic Studio (4-12)****Spring:** All Years

Assuming that the accepted student has mastered all of the preceding experiences and has presented a portfolio demonstrating high competency, the hours devoted to the BFA program are concentrated in a single-minded project in ceramics-decorating, glazing, firing, formal elements and/or sets and other explorations. Students must complete ART 404A and 405A prior to enrolling in this class.

Prerequisite: ART 404A, ART 405A**ART 452B Graphic Design Studio (4-12)****Spring:** All Years

Senior project preparation for BFA candidacy fulfillment, portfolio preparation, and project presentation. Students must complete ART 404B and 405B prior to enrolling in this class.

Prerequisite: ART 404B, ART 405B**ART 452C Painting Studio (4-12)****Spring:** All Years

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. Students must complete ART 404C and 405C prior to enrolling in this class.

Prerequisite: ART 404C, ART 405C**ART 452D Printmaking Studio (4-12)****Spring:** All Years

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. Students must complete ART 404D and 405D prior to enrolling in this class.

Prerequisite: ART 404D, ART 405D**ART 452E Sculpture Studio (4-12)****Spring:** All Years

Self-directed and in-depth development and refinement of personal imagery resulting in a skillfully executed and conceptually sound body of work suitable for professional presentation in required BFA Exhibition. Students must complete ART 404E and 405E prior to enrolling in this class.

Prerequisite: ART 404E, ART 405E

ART 452F Photography Studio (4-12)

Spring: All Years

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. Students must complete ART 404F and 405F prior to enrolling in this class. **Prerequisite:** ART 404F, ART 405F

ART 452H Drawing Studio (4-12)

Spring: All Years

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. Students must complete ART 404H and 405H prior to enrolling in this class.

Prerequisite: ART 404H, ART 405H

ART 455 [C] Psychology of the Arts (3)

Fall: On Demand

Spring: On Demand

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. Same as PSY 455.

Prerequisite: PSY 113

ART 469 Student Internship (2-12)

Fall: All Years

Spring: All Years

A one semester self-directed exploration or professional experience with an artist, designer, illustrator, art museum or studio.

ART 480 BFA Seminar (3)

Fall: All Years

Spring: On Demand

Consideration of social, economic and legal concerns of the contemporary visual artist. Topics include: Art law, copyright law, portfolio development, exhibition preparation, and other issues pertinent to performance in the professional art world. This course is open to senior-level and BFA students.

ART 490 Topics in Art (1-4)

Fall: All Years

Spring: All Years

Studio, seminar or discussion of topics not included in other art courses. Up to four credits may be applied to the major. This is a topical course and may be repeated when the topic changes.

ART 497 Topics in Art I (1-6)

Fall: All Years

Spring: All Years

Studies selected from art history, theory of ceramics, drawing, graphic design, painting, photography, printmaking, sculpture, and watercolor. May be repeated for up to 12 credits.

Astronomy

AST 101 Observational Astronomy (2)

Fall: On Demand

Spring: On Demand

Non-technical introduction to naked-eye astronomy and observing with small telescopes. The course is primarily project-oriented. Includes laboratory.

AST 102 [B1/4L] Solar System Astronomy (3)

Fall: All Years

An introduction to the history of astronomy, the Sun, the origin of the solar system, and the study of the planets. Lab included.

AST 104 [B1/4L] Stellar Astronomy (3)

Spring: All Years

An introduction to stars, stellar evolution, galaxies and the origin and structure of the universe. The course also includes a discussion of instrumentation currently used in astronomical investigations. Lab included.

AST 190 Topics in Astronomy (1-3)

Fall: On Demand

A study of a specific area of astronomy. This course may be repeated as course content may vary.

AST 350 Astronomical Image Processing (1)

Fall: On Demand

Spring: On Demand

Methods of astronomical imaging. Processing of digital images. **Prerequisite:** AST 102 or AST 104

AST 360 [B] Planetary Science (3)

Fall: On Demand

Spring: On Demand

A synthesis of current knowledge of the members of the solar system and the origin and evolution of planetary system. Lab included.

Prerequisite: AST 102 or GEOS 115

AST 365 [B] Cosmology (3)

Fall: On Demand

Spring: On Demand

Theoretical principles and observational evidence regarding the large-scale structure and evolution of the universe. **Prerequisite:** MATH 323, PHYS 202

AST 380 Celestial Mechanics (3)

Fall: On Demand **Spring:** On Demand
Principles of celestial mechanics, central force motion, two body problem, n-body problem, prediction and determination of orbits, perturbations.

AST 390 Projects in Advanced Astronomy (2)

Fall: On Demand **Spring:** On Demand
Consideration of special problems or the study of introductory topics at a more advanced level. May be repeated for credit with consent of instructor for no more than three times or six credits.

AST 410 Astrophysics (3)

Fall: On Demand **Spring:** On Demand
Mathematical representation and modeling of stellar structure and evolution. Mathematical consideration of nuclear processes and nucleosynthesis. Analysis of white dwarfs, neutron stars, and black holes. Astrophysics of the interstellar medium and galaxies. In-depth topics will vary depending on the interests of instructor and/or participants. **Prerequisite:** PHYS 322

Athletic Training

AT 120 Introduction to Athletic Training (1)

Fall: All Years
This course is designed to introduce the student to the profession of athletic training and the certified athletic trainer as a health care provider. Various aspects of MSU Moorhead's athletic training education program are discussed.

AT 220 Care and Prevention of Athletic Injuries (2)

Spring: All Years
This course will provide the athletic training student with the principles of athletic training. Students will learn prevention, recognition, treatment of athletic injuries, organization and administration of athletic training, and basic taping techniques. Students must take AT 220L concurrently with this course. Athletic Training Majors only.

AT 220L Care and Prevention of Athletic Injuries Lab (1)

Spring: All Years
This lab course is to be taken in conjunction with AT 220. This lab will allow the athletic training student to practice the skills of prevention, recognition, and treatment of athletic injuries. Application of taping techniques will also be demonstrated and practiced.

AT 320 Athletic Training Techniques (3)

Fall: All Years
The athletic training students will learn advanced taping/strapping techniques, fabrication, fitting, and maintenance of special pads, splints, and braces used in athletics. Development and implementation of emergency management procedures and ambulatory methods for the injured athlete will be covered. Admission to the AT program is required.

AT 321 Athletic Injury Assessment: Upper Extremity (3)

Fall: All Years
This course is an in-depth study of athletic injury assessment techniques involving the musculoskeletal and neurovascular structures of the upper extremities. Content includes the application of theoretical concepts with practical experience in the areas of care and prevention of athletic injuries and injury/illness assessment. Admission to the Athletic Training Education program is required. **Prerequisite:** AT 320, PE 320

AT 321L Athletic Injury Assessment: Upper Extremity Lab (1)

Fall: All Years
Application and practical experience of theoretical concepts in the areas of care and prevention of athletic injuries and injury/illness assessment of the upper extremities. To be taken in conjunction with AT 321. Admission to the Athletic Training Education Program is required.

AT 322 Athletic Injury Assessment: Lower Extremity (3)

Spring: All Years
This course is an in-depth study of athletic injury assessment techniques involving the musculoskeletal and neurovascular structures of the lower extremities. Content includes the application of theoretical concepts with practical experience in the areas of care and prevention of athletic injuries and injury/illness assessment. This course is a continuation of AT 321 and AT 321L. Admission to the Athletic Training Education program is required.

AT 322L Athletic Injury Assessment: Lower Extremity Lab (1)

Spring: All Years
Application and practical experience of theoretical concepts in the areas of care and prevention of athletic injuries and injury/illness assessment of the lower extremities. To be taken in conjunction with AT 322. Admission to the Athletic Training Education Program is required.

AT 323 Athletic Training Modalities (3)**Fall:** All Years

This course will investigate tissue repair, physiology of hot and cold treatments, therapeutic modalities, and therapeutic exercise relevant to athletic injury management. Admission to the Athletic Training Education program is required.

Prerequisite: AT 322, PE 320**AT 323L Athletic Training Modalities Lab (1)****Fall:** All Years

The student will demonstrate the ability to apply therapeutic modalities. This includes determining inflammatory phase, indications, contraindications, and appropriate parameters for treatment of various contemporary therapeutic modalities. To be taken concurrently with AT 323. Admission to the Athletic Training Education Program is required.

Prerequisite: AT 322**AT 324 Athletic Injury Rehabilitation (3)****Spring:** All Years

A study of therapeutic exercise and reconditioning techniques applied to various athletic injuries, including modes of muscular/cardiovascular strength and endurance, and range of motion exercises. Admission to the Athletic Training Education program is required.

AT 324L Athletic Injury Rehabilitation Lab (1)**Spring:** All Years

The student will demonstrate appropriate methods of evaluation rehabilitation and reconditioning programs and will interpret the result and the appropriate application of contemporary therapeutic exercises and equipment. To be taken concurrently with AT 324. Admission to the Athletic Training Education Program is required. **Prerequisite:** AT 363

AT 361 Athletic Training Practicum I (1)**Fall:** All Years

Students enrolled in AT 361 will receive supervised clinical education experience in a variety of clinical education settings. Clinical experience settings may include MSUM, local high schools, local junior high schools, sports medicine facilities, and other colleges and universities. This practicum will be taken concurrently with AT 320, 321, and 321L.

AT 362 Athletic Training Practicum II (1)**Spring:** All Years

Students enrolled in AT 362 will receive supervised clinical education experience in a variety of clinical education settings. Clinical experience settings may include MSUM, local high schools, local junior high schools, sports medicine facilities, and other colleges and universities. This practicum will be taken concurrently with AT 322 and AT 322L.

Prerequisite: AT 361**AT 363 Athletic Training Practicum III (1)****Fall:** All Years

Students enrolled in AT 363 will receive supervised clinical education experience in a variety of clinical education settings. Clinical experience settings may include MSUM, local high schools, local junior high schools, sports medicine facilities, and other colleges and universities. This practicum will be taken concurrently with AT 323 and AT 323L.

Prerequisite: AT 362**AT 364 Athletic Training Practicum IV (1)****Spring:** All Years

Students enrolled in AT 364 will receive supervised clinical education experience in a variety of clinical education settings. Clinical experience settings may include MSUM, local high schools, local junior high schools, sports medicine facilities, and other colleges and universities. This practicum will be taken concurrently with AT 324 and AT 324L.

Prerequisite: AT 363**AT 390 Topics in Athletic Training (1-3)****Fall:** On Demand**Spring:** On Demand

This is an upper division topics course and may be repeated when the topic changes.

AT 390L Topics in Athletic Training Laboratory (1)**Fall:** On Demand**Spring:** On Demand

This is an upper division topical laboratory course, and will commonly be offered in conjunction with an AT 390 topical lecture course.

AT 420 Athletic Training Senior Seminar (2)**Fall:** All Years

This seminar will cover a broad range of current issues and research in the athletic training profession. This is the final preparation for the student for the Board of Certification (BOC) examination. In addition, the mechanics of resume writing, interviewing, and job searching will be examined. Admission to the AT Education program is required.

AT 440 Pharmacology and Medical Issues (3)**Fall:** All Years

In-depth study of general pharmacology, medical conditions, and disabilities of athletes and others involved in physical activity. The Athletic Training student will learn pharmacological applications, including awareness of the indications, contraindications, precautions, and interactions of medications and of the governing regulations relevant to the treatment of injuries and illnesses. The athletic training student will also learn referral management, and treatments of athletes and others involved in physical activity who suffer from general medical conditions and disabilities. Admission to the Athletic Training Education program is required.

AT 460 Organization and Administration of Athletic Training (3)**Spring:** All Years

This course is designed to prepare the athletic training students for the development and administration of various procedures, records, forms, budgets, and professional contracts needed to successfully manage an athletic training program. Admission to the AT Education program is required.

AT 465 Athletic Training Practicum V (1)**Fall:** All Years

Students enrolled in AT 465 will receive supervised clinical education experience in a variety of clinical education settings. Clinical experience settings may include MSUM, local high schools, local junior high schools, sports medicine facilities, and other colleges and universities. This practicum will be taken concurrently with AT 420 and AT 440.

Prerequisite: AT 364**AT 466 Athletic Training Practicum VI (1)****Fall:** All Years

Students enrolled in AT 465 will receive supervised clinical education experience in a variety of clinical education settings. Clinical experience settings may include MSUM, local high schools, local junior high schools, sports medicine facilities, and other colleges and universities. This practicum will be taken concurrently with AT 460. **Prerequisite:** AT 465

Athletics**ATHL 181A Varsity Basketball-Men (1)****Fall:** All Years

Participation in Varsity Basketball during the Fall Semester.

ATHL 181B Varsity Basketball-Men (1)**Spring:** All Years

Participation in Varsity Basketball during the Spring Semester.

ATHL 181C Varsity Cross-Country and Indoor Track and Field-Men (1)**Fall:** All Years

Participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 181D Varsity Indoor and Outdoor Track and Field-Men (1)**Spring:** All Years

Participation in Varsity Indoor and Outdoor Track during the Spring Semester.

ATHL 181E Varsity Football (1)**Fall:** All Years

Participation in Varsity Football during the Fall Semester.

ATHL 181F Varsity Football (1)**Spring:** All Years

Participation in Varsity Football during the Spring Semester.

ATHL 181G Varsity Wrestling (1)**Fall:** All Years

Participation in Varsity Wrestling during the Fall Semester.

ATHL 181H Varsity Wrestling (1)**Spring:** All Years

Participation in Varsity Wrestling during the Spring Semester.

ATHL 181I Varsity Basketball-Women (1)**Fall:** All Years

Participation in Varsity Basketball during the Fall Semester.

ATHL 181J Varsity Basketball-Women (1)**Spring:** All Years

Participation in Varsity Basketball during the Spring Semester.

ATHL 181K Varsity Cross-Country and Indoor Track and Field-Women (1)**Fall:** All Years

Participation in Varsity Cross-Country and/or Indoor Track & Field during the Fall Semester.

ATHL 181L Varsity Indoor and Outdoor Track and Field-Women (1)**Spring:** All Years

Participation in Varsity Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 181M Varsity Golf (1)**Fall:** All Years

Participation in Varsity Golf during the Fall Semester.

ATHL 181N Varsity Soccer (1)**Fall:** All Years

Participation in Varsity Soccer during the Fall Semester.

ATHL 181O Varsity Soccer (1)**Spring:** All Years

Participation in Varsity Soccer during the Spring Semester.

ATHL 181Q Varsity Softball (1)**Spring:** All Years

Participation in Varsity Softball during the Spring Semester.

ATHL 181R Varsity Swimming (1)**Fall:** All Years

Participation in Varsity Swimming during the Fall Semester.

ATHL 181S Varsity Swimming (1)**Spring:** All Years

Participation in Varsity Swimming during the Spring Semester.

ATHL 181T Varsity Tennis (1)**Spring:** All Years

Participation in Varsity Tennis during the Spring Semester.

ATHL 181U Varsity Volleyball (1)**Fall:** All Years

Participation in Varsity Volleyball during the Fall Semester.

ATHL 181V Varsity Volleyball (1)**Spring:** All Years

Participation in Varsity Volleyball during the Spring Semester.

ATHL 281A Varsity Basketball-Men (1)**Fall:** All Years

Second year participation in Varsity Basketball during the Fall Semester.

ATHL 281B Varsity Basketball-Men (1)**Spring:** All Years

Second year participation in Varsity Basketball during the Spring Semester.

ATHL 281C Varsity Cross-Country and Indoor Track and Field-Men (1)**Fall:** All Years

Second year participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 281D Varsity Indoor and Outdoor Track and Field-Men (1)**Spring:** All Years

Second year participation in Varsity Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 281E Varsity Football (1)**Fall:** All Years

Second year participation in Varsity Football during the Fall Semester.

ATHL 281F Varsity Football (1)**Spring:** All Years

Second year participation in Varsity Football during the Spring Semester.

ATHL 281G Varsity Wrestling (1)**Fall:** All Years

Second year participation in Varsity Wrestling during the Fall Semester.

ATHL 281H Varsity Wrestling (1)**Spring:** All Years

Second year participation in Varsity Wrestling during the Spring Semester.

ATHL 281I Varsity Basketball-Women (1)**Fall:** All Years

Second year participation in Varsity Basketball during the Fall Semester.

ATHL 281J Varsity Basketball-Women (1)**Spring:** All Years

Second year participation in Varsity Basketball during the Spring Semester.

ATHL 281K Varsity Cross-Country and Indoor Track and Field-Women (1)**Fall:** All Years

Second year participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 281L Varsity Indoor and Outdoor Track and Field-Women (1)**Spring:** All Years

Second year participation in Varsity Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 281M Varsity Golf (1)**Fall:** All Years

Second year participation in Varsity Golf during the Fall Semester.

ATHL 281N Varsity Soccer (1)**Fall:** All Years

Second year participation in Varsity Soccer during the Fall Semester.

ATHL 281O Varsity Soccer (1)**Spring:** All Years

Second year participation in Varsity Soccer during the Spring Semester.

ATHL 281P Varsity Softball (1)**Fall:** All Years

Second year participation in Varsity Softball during the Fall Semester.

ATHL 281Q Varsity Softball (1)**Spring:** All Years

Second year participation in Varsity Softball during the Spring Semester.

ATHL 281R Varsity Swimming (1)**Fall:** All Years

Second year participation in Varsity Swimming during the Fall Semester.

ATHL 281S Varsity Swimming (1)**Spring:** All Years

Second year participation in Varsity Swimming during the Spring Semester.

ATHL 281T Varsity Tennis (1)**Spring:** All Years

Second year participation in Varsity Tennis during the Spring Semester.

ATHL 281U Varsity Volleyball (1)**Fall:** All Years

Second year participation in Varsity Volleyball during the Fall Semester.

ATHL 281V Varsity Volleyball (1)**Spring:** All Years

Second year participation in Varsity Volleyball during the Spring Semester.

ATHL 381A Varsity Basketball-Men (1)**Fall:** All Years

Third year participation in Varsity Basketball during the Fall Semester.

ATHL 381B Varsity Basketball-Men (1)**Spring:** All Years

Third year participation in Varsity Basketball during the Spring Semester.

ATHL 381C Varsity Cross-Country and Indoor Track and Field-Men (1)**Fall:** All Years

Third year participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 381D Varsity Indoor and Outdoor Track and Field-Men (1)**Spring:** All Years

Third year participation in Varsity Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 381E Varsity Football (1)**Fall:** All Years

Third year participation in Varsity Football during the Fall Semester.

ATHL 381F Varsity Football (1)**Spring:** All Years

Third year participation in Varsity Football during the Spring Semester.

ATHL 381G Varsity Wrestling (1)**Fall:** All Years

Third year participation in Varsity Wrestling during the Fall Semester.

ATHL 381H Varsity Wrestling (1)**Spring:** All Years

Third year participation in Varsity Wrestling during the Spring Semester.

ATHL 381I Varsity Basketball-Women (1)**Fall:** All Years

Third year participation in Varsity Basketball during the Fall Semester.

ATHL 381J Varsity Basketball-Women (1)**Spring:** All Years

Third year participation in Varsity Basketball during the Spring Semester.

ATHL 381K Varsity Cross-Country and Indoor Track and Field-Women (1)**Fall:** All Years

Third year participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 381L Varsity Indoor and Outdoor Track and Field-Women (1)**Spring:** All Years

Third year participation in Varsity Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 381M Varsity Golf (1)**Fall:** All Years

Third year participation in Varsity Golf during the Fall Semester.

ATHL 381N Varsity Soccer (1)**Fall:** All Years

Third year participation in Varsity Soccer during the Fall Semester.

ATHL 381O Varsity Soccer (1)**Spring:** All Years

Third year of participation in Varsity Soccer during the Spring Semester.

ATHL 381P Varsity Softball (1)**Fall:** All Years

Third year participation in Varsity Softball during the Fall Semester.

ATHL 381Q Varsity Softball (1)**Spring:** All Years

Third year participation in Varsity Softball during the Spring Semester.

ATHL 381R Varsity Swimming (1)**Fall:** All Years

Third year participation in Varsity Swimming during the Fall Semester.

ATHL 381S Varsity Swimming (1)**Spring:** All Years

Third year participation in Varsity Swimming during the Spring Semester.

ATHL 381T Varsity Tennis (1)**Spring:** All Years

Third year participation in Varsity Tennis during the Spring Semester.

ATHL 381U Varsity Volleyball (1)**Fall:** All Years

Third year participation in Varsity Volleyball during the Fall Semester.

ATHL 381V Varsity Volleyball (1)**Spring:** All Years

Third year of participation in Varsity Volleyball during the Spring Semester.

ATHL 481A Varsity Basketball-Men (1)**Fall:** All Years

Fourth year participation in Varsity Basketball during the Fall Semester.

ATHL 481B Varsity Basketball-Men (1)**Spring:** All Years

Fourth year participation in Varsity Basketball during the Spring Semester.

ATHL 481C Varsity Cross-Country and Indoor Track and Field-Men (1)**Fall:** All Years

Fourth year participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 481D Varsity Indoor and Outdoor Track and Field-Men (1)**Spring:** All Years

Fourth year participation in Varsity Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 481E Varsity Football (1)**Fall:** All Years

Fourth year participation in Varsity Football during the Fall Semester.

ATHL 481F Varsity Football (1)**Spring:** All Years

Fourth year participation in Varsity Football during the Spring Semester.

ATHL 481G Varsity Wrestling (1)**Fall:** All Years

Fourth year participation in Varsity Wrestling during the Fall Semester.

ATHL 481H Varsity Wrestling (1)**Spring:** All Years

Fourth year participation in Varsity Wrestling during the Spring Semester.

ATHL 481I Varsity Basketball-Women (1)**Fall:** All Years

Fourth year participation in Varsity Basketball during the Fall Semester.

ATHL 481J Varsity Basketball-Women (1)**Spring:** All Years

Fourth year participation in Varsity Basketball during the Spring Semester.

ATHL 481K Varsity Cross-Country and Indoor Track and Field-Women (1)**Fall:** All Years

Fourth year participation in Varsity Cross-Country and/or Indoor Track and Field during the Fall Semester.

ATHL 481L Varsity Indoor and Outdoor Track and Field-Women (1)**Spring:** All Years

Fourth year participation in Indoor and Outdoor Track and Field during the Spring Semester.

ATHL 481M Varsity Golf (1)**Fall:** All Years

Fourth year participation in Varsity Golf during the Fall Semester.

ATHL 481N Varsity Soccer (1)**Fall:** All Years

Fourth year participation in Varsity Soccer during the Fall Semester.

ATHL 481P Varsity Softball (1)**Fall:** All Years

Fourth year participation in Varsity Softball during the Fall Semester.

ATHL 481Q Varsity Softball (1)**Spring:** All Years

Fourth year participation in Varsity Softball during the Spring Semester.

ATHL 481R Varsity Swimming (1)**Fall:** All Years

Fourth year participation in Varsity Swimming during the Fall Semester.

ATHL 481S Varsity Swimming (1)**Spring:** All Years

Fourth year participation in Varsity Swimming during the Spring Semester.

ATHL 481T Varsity Tennis (1)**Spring:** All Years

Fourth year participation in Varsity Tennis during the Spring Semester.

ATHL 481U Varsity Volleyball (1)**Fall:** All Years

Fourth year participation in Varsity Volleyball during the Fall Semester.

ATHL 481V Varsity Volleyball (1)**Spring:** All Years

Fourth year of participation in Varsity Volleyball during the Spring Semester.

Biology**BIOL 100 [2] Issues in Human Biology (3)****Fall:** All Years**Spring:** All Years

Human biology is a wide field that includes human physiology, genetics, medical studies and how humans impact the environment. We are bombarded with information about everything from green tea to intelligent design. Our students will be the scientific resources for their families and peer groups; they need to know how to wade through non-science to get to the facts. This course uses data and “news” to teach students how to properly sift through all this material and logically draw conclusions based on fact.

BIOL 102 [B1] Matter and Life (3)**Fall:** All Years**Spring:** All Years

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.

BIOL 103 [B/4] Humanity and the Ecosystem (3)**Fall:** All Years**Spring:** All Years

Survey of general ecology emphasizing human impact on the environment, including population and pollution. For non-science majors.

BIOL 104 [B/4] Human Biology (3)**Fall:** All Years**Spring:** All Years

Biological basis of human structures and functions with references to genetics, development, nutrition and disease. For non-science majors.

BIOL 111 [B1] Cell Biology (4)**Fall:** All Years

Fundamental concepts of the structure, function and reproduction of cells. Lab included.

BIOL 115 [B1/4L] Organismal Biology (4)**Spring:** All Years

This course is designed for biology majors. The course will address biological diversity, primarily in plants and animals. Organismal diversity will be presented within an evolutionary context. Relationships between form and function as well as relationships of organisms to their environments will be addressed. Lab included. **Prerequisite:** BIOL 111

BIOL 125 Human Anatomy and Physiology I (3)**Fall:** All Years

The first semester of an introductory lecture and laboratory sequence in human anatomy and physiology for nursing students. The course examines the fundamental concepts of human structure and function including cells and tissues; integumentary, skeletal, and nervous systems; and sensory organs.

BIOL 126 Human Anatomy and Physiology II (3)**Spring:** All Years

The second semester of an introductory lecture and laboratory sequence in human anatomy and physiology for nursing students. The course examines the fundamental concepts of human structure and function including covering muscular, cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive systems. **Prerequisite:** BIOL 125

BIOL 170 [B1] Exploring Biology (3)**Fall:** All Years **Spring:** All Years

This course is specifically designed for prospective elementary teachers. Includes principles of biology with emphasis on human biology, basic concepts in ecology and the impact of specific environmental problems. Lab included.

BIOL 190 Topics: Biology (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

BIOL 226 [B1] Field Biology of Plants (3)

An introduction to plant identification, ethnobotany and ecology. Laboratory activities and field trips will focus on the local flora and vegetation.

BIOL 236 [B1] Introduction to Microbiology (3)**Spring:** All Years

Concepts and application of microbiology. For paramedical, health, physical education, agriculture majors. Not for medical technology, cytotechnology, biology majors, minors. This course includes a lab. **Prerequisite:** BIOL 102 or BIOL 104 or BIOL 111 or CHEM 110 or CHEM 200

BIOL 290 Topics: Biology (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

BIOL 300 [B1] Biology of Women (3)**Fall:** On Demand **Spring:** On Demand

A study of the gender-related aspects of the biology and behavior of women, including a critical examination of research in this field. Appropriate as a elective only for Biology majors who choose the Health and Medical Science emphasis or the Life Science Emphasis.

Prerequisite: BIOL 104, BIOL 115**BIOL 305 [B1] General Botany (4)****Fall:** All Years

This course is designed for the biology major and is a comprehensive introduction to the plant kingdom including the following topics: life-history, reproduction, structure, and physiology. A laboratory is included and involves self-paced microscopic and macroscopic analysis of living and preserved specimens. **Prerequisite:** BIOL 115

BIOL 321 Invertebrate Zoology (3)**Fall:** Odd Years

This course is a survey of major invertebrate taxa, with some emphasis on insects. Course content includes identification of major groups and their ecology. Some emphasis will be placed on important parasites and agricultural pests. Each student will be responsible for creating a labeled collection of invertebrates. **Prerequisite:** BIOL 115

BIOL 322 Vertebrate Zoology (3)**Spring:** Even Years

This course is a survey of major vertebrate taxa, with emphasis on the evolutionary relationships among these groups and the interaction between anatomical structure and ecology. **Prerequisite:** BIOL 115

BIOL 323 Human Anatomy (4)**Fall:** All Years

Anatomical structure of the human body, from individual organ systems to the integrated whole. Includes cadaver dissection.

Prerequisite: BIOL 111 or BIOL 115**BIOL 325 Plant Taxonomy (3)****Spring:** Odd Years

Identification, principles of classification and phylogeny of the vascular plants with emphasis on the angiosperms. With lab and field work.

Prerequisite: BIOL 115**BIOL 326 Field Botany (3)**

Identification and ecology of vascular plants with an emphasis on local flora and regional vegetation types. With lab and fieldwork. Students who have completed Biology 226 may not enroll in Biol 326.

Prerequisite: BIOL 115

BIOL 335 Tropical Field Biology (3)**Spring: Even Years**

Two lectures per week during the spring semester discuss general concepts of ecology applied to tropical ecosystems. Topics covered include: global climate patterns that produce tropical conditions, evolution of biodiversity, rain forests, cloud forests, dry forests, mangrove swamps, coral reef ecology, principles and application of conservation biology to tropical flora and fauna, and balancing human resource use with habitat preservation and restoration. The “lab” component of this course is a mandatory, 10-day class trip to Costa Rica over spring break. In Costa Rica, students and faculty spend 4 days in an ecolodge in dry forest in Cabo Blanco on the Pacific Ocean, another 4 days in cloud forest near Monteverde. A special fee is required to cover the costs of travel, food, and accommodation. **Prerequisite:** one course in the sciences.

BIOL 341 Genetics (4)**Spring: All Years**

A survey of the modern molecular and classical Mendelian principles underlying biological inheritance. With lab. **Prerequisite:** BIOL 111

BIOL 345 Principles of Ecology (4)**Fall: All Years**

The structure and function of ecological systems. With lab and field work that will emphasize local species and ecosystems. **Prerequisite:** BIOL 115

BIOL 347 Plant Physiology (3)**Spring: All Years**

Structure and function of higher plants with emphasis on molecular and cellular physiology as related to whole plant functions. Topics include growth and development, photosynthesis, and environmental aspects of plant physiology. With Lab.

Prerequisite: CHEM 210, CHEM 210L

BIOL 348 Evolutionary Biology (3)**Spring: All Years**

Concepts, principles and evidence of evolutionary processes in biological systems.

Prerequisite: BIOL 115, BIOL 341, BIOL 345

BIOL 349 Human Physiology (4)**Spring: All Years**

The study of human physiology from cellular homeostasis through organ systems. Includes the study of normal function, regulation, and integration of organ systems, and the implications of abnormal function. **Prerequisite:** BIOL 111, CHEM 210L or CHEM 110, BIOL 115, CHEM 210

BIOL 350 Microbiology (4)**Fall: All Years**

Covers concepts of basic and applied microbiology, emphasizing bacteriology and introducing virology and immunology. Laboratory covers basic microbiological techniques, identification of unknowns as well as a group research project. With lab. **Prerequisite:** BIOL 111, BIOL 115, and CHEM 210, CHEM 210L

BIOL 360 Cell and Vertebrate Systems**Physiology (4)****Fall: All Years**

Cellular physiology including protein function, membrane function, signal transduction and electrical properties of cells and a comparative overview of vertebrate organ system function, regulation, and integration. **Prerequisite:** BIOL 115, CHEM 210, CHEM 210L

BIOL 365 Developmental Biology (4)**Spring: All Years**

A study of the mechanisms of development in a variety of biological systems, with analyses of changes from conception through aging. With lab.

Prerequisite: BIOL 341, BIOL 115

BIOL 372 Aquatic Biology (4)**Fall: All Years**

A general overview of aquatic ecosystems. This course includes basic physical and chemical properties of water (limnology), evolution and ecology of fishes (ichthyology), and resource conservation and management. With lab.

Prerequisite: BIOL 111, CHEM 110, BIOL 115, CHEM 210, CHEM 210L

BIOL 385 Molecular Biology (3)**Fall: All Years**

Molecular biology of the gene with emphasis on gene structure and expression in eukaryotes. Topics include current techniques used to study genomes, genes and regulation of gene expression.

Prerequisite: BIOL 341, CHEM 210, CHEM 210L

BIOL 385L Biology 385 Lab (1)**Fall: All Years**

This course is required for students in the Biology/Chemistry double major with an emphasis in Biochemistry and Biotechnology. The course may be used as an elective by students in other biology programs.

BIOL 390 Topics: Biology (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

BIOL 391 Medical Observations and Evaluation I (2)**Spring:** All Years

This course is designed specifically for students interested in pursuing a career as a physician. It consists of a series of 4-hour observations of physicians or other health professionals at Innovis Health (Dakota Specialty Institute). Accompanying each observation is a 3-hour class session that is dedicated to the discussion of people's observational experiences. This class session will also be used to discuss selected readings pertaining to health care and ethics. Participants will maintain an observation/experience journal throughout the semester. Requirements for registration include a minimum GPA of 3.4 and junior standing. This course is for MSUM students only; TCU registration is not allowed.

BIOL 400 Biochemistry I (3)**Fall:** All Years

A survey of the chemistry and metabolism of living systems. Topics include structure, function and chemistry of biomolecules, and introduction to metabolism and metabolic pathways.

Prerequisite: CHEM 350**BIOL 402 Principles of Animal Behavior (3)****Spring:** All Years

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, BIOL 345**BIOL 405 Biochemistry Laboratory I (1)****Fall:** All Years

Representative experiments in the quantitation, isolation and metabolism of naturally occurring substances. Techniques include: assay development, column chromatography, protein and nucleic acid isolation and analysis, protein electrophoresis, and enzymology. **Prerequisite:** CHEM 355

BIOL 410 Biochemistry II (3)**Spring:** All Years

A survey of the chemistry and metabolism of living systems and nucleic acids biochemistry. Topics include biosynthetic biochemical pathways and nucleic acids biochemistry, signal transduction, biochemistry and cancer, protein synthesis and recombinant DNA theory.

Prerequisite: CHEM 400 or BIOL 400**BIOL 415 Biochemistry Laboratory II (1)****Spring:** All Years

Course builds on acquired skills and presented techniques of CHEM 405. New techniques include: use of radionuclides in biochemical research, affinity and high performance liquid chromatography, electrophoresis and an introduction to recombinant techniques. **Prerequisite:** BIOL 405 or CHEM 405

BIOL 430 Immunobiology (4)**Spring:** All Years

Covers the components and functioning of the immune system: emphasizes the immune system at the organismal level as well as the cellular and molecular levels. Coverage includes topics in immunohematology. Case studies are employed. Listed prerequisites may be waived by consent of instructor. **Prerequisite:** BIOL 350, CHEM 210, CHEM 210L

BIOL 438 Medical Microbiology (4)**Spring:** All Years

A survey of the major infectious disease agents (bacterial, viral, fungal and parasitic) and their associated diseases in humans. Case studies will be employed. **Prerequisite:** BIOL 350, CHEM 210

BIOL 440 Middle School/Secondary Science**Teaching Methods (3)****Spring:** All Years

Materials and methods appropriate for middle/junior and senior high school science classes and laboratories. Same as CHEM 440 and PHYS 440.

BIOL 442 Middle School Science Teaching Methods (1)**Spring:** All Years

Materials, methods and activities appropriate for middle school science classes and laboratories. Junior standing in elementary education (Science Specialty). Must be taken prior to student teaching.

BIOL 455 Wildlife Ecology (3)**Fall:** All Years

The application of ecological principles to the management of wildlife populations. Population dynamics and field techniques are stressed. With lab and field work. **Prerequisite:** BIOL 345

BIOL 460 Medical Technology Clinical Education (8-12)**Fall:** All Years **Spring:** All Years

Clinical education in a school of medical technology in an affiliated hospital. Year-long sequence requires a total of 32 credits.

BIOL 469 Student Internship in Biology (1-12)**Fall:** On Demand **Spring:** On Demand

A supervised work experience generally involving research in a governmental agency or the private sector. May be repeated for credit.

BIOL 470 Undergraduate Laboratory Teaching (1)**Fall:** All Years **Spring:** All Years

Students will serve as undergraduate laboratory teaching assistants in selected biology classes under the supervision of a faculty mentor. May be repeated for credit.

BIOL 472 Field Biology Research Techniques (4)**Fall:** All Years

Hands-on experience using field biology research techniques including such things as experimental design, habitat sampling, animal sampling, radiotelemetry, population estimation, and aging techniques. Students are required to complete a research project. Course includes lab and field work.

Prerequisite: BIOL 345**BIOL 475 Biotechniques I (5)****Fall:** All Years

This course includes three blocks of advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell physiology taught in a research setting. Additionally, students will work in teams to identify a faculty research mentor, prepare and present formal research proposals, and begin their research projects. Students must have senior standing in the biotechnology emphasis, which requires the completion of each of the biotechnology core courses with a grade of C or above. **Prerequisite:** BIOL 347, BIOL 385, CHEM 415, CHEM 380, CHEM 410 or BIOL 360

BIOL 476 Biotechniques II (5)**Spring:** All Years

This course is the second in a sequence for seniors in the biotechnology emphasis. The course includes two blocks of advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell physiology taught in a research setting along with one seminar block. Student research teams will continue to work on their research projects that were initiated in Biotechniques I. In the seminar block, students will make oral presentations critically evaluating scientific literature, prepare an abstract and written paper of their research, and finally prepare a poster to present the data from their research project.

Prerequisite: BIOL 475**BIOL 484 Biology Seminar (1)****Fall:** All Years **Spring:** All Years

Oral presentations by students and staff based on critical evaluation of scientific literature and/or independent research.

BIOL 490 Topics: Biology (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

BIOL 497 Undergraduate Research in Biology (1-3)**Fall:** All Years **Spring:** All Years

Individual research; project and its format must be accepted by the research advisor prior to registration. May be repeated for credit.

Business**BUS 160 Introduction to Modern Business (3)****Fall:** All Years **Spring:** All Years

This course is a survey of business, introducing the major operations of a business, including production, marketing, finance and human resources management. This course also examines the economic, social, and political environment of business. This course cannot be used to satisfy major or minor requirements in any area of business.

BUS 365 Entrepreneurship (3)

Fall: On Demand **Spring:** On Demand
 Entrepreneurship will take students through the process of conceiving, creating, managing, and potentially selling a business. The goal is to provide a solid background with practical application of important concepts for business and non-business majors who may have limited experience in an entrepreneurial environment. Finance, accounting, marketing and management issues will be addressed from an entrepreneurial perspective.

BUS 490 Topics in Business Administration (1-3)

Fall: On Demand **Spring:** On Demand
 This is a Senior level topics course and may be repeated as topic varies.

BUS 498 Business Policy and Strategy (3)

Fall: All Years **Spring:** All Years
 Students take a top management perspective in studying strategic management principles, concepts and analytical techniques. Strategic management entails the analysis of internal and external environments of a firm to maximize the utilization of resources in relation to objectives. This capstone course will be taken after completion of all other business core courses. **Prerequisite:** ACCT 230, ACCT 231, MGMT 360, MGMT 380, MKTG 310, ACCT 304, FINC 340, MGMT 370 or ACCT 315

Chemistry

CHEM 102 [B/4] Survey of Basic Principles of Chemistry (3)

Fall: All Years **Spring:** All Years
 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 (1-3)

Fall: On Demand **Spring:** On Demand
 Study of some elementary aspects of chemistry and chemical concepts as applied to topical interest. Designed for the non-science major. Credit not applicable to a chemistry major or minor. May be repeated when topic varies. **Prerequisite:** CHEM 102

CHEM 104 [B] Environmental Chemistry (3)

Spring: On Demand
 Study of chemical processes in the environment. Provides an appreciation and understanding of environmental chemistry. **Prerequisite:** CHEM 102

CHEM 110 [B] Fundamentals of Chemistry (4)

Fall: All Years
 Introduction to basic chemical principles. Intended for students requiring a year sequence in general, organic, and biochemistry. Credit not applicable to a chemistry major or minor. Elementary Education majors who choose the Specialty Area in Science will need to take Chem 200L concurrently with this course.

CHEM 180 [B1] Introduction to Organic and Biochemistry (4)

Spring: All Years
 Introduction to organic chemistry and structure and metabolism of carbohydrates, lipids, proteins, and nucleic acids. Concurrent registration with CHEM 185. Credit not applicable to a chemistry major or minor. **Prerequisite:** CHEM 110

CHEM 185 [B1] Introduction to Organic and Biochemistry Lab (1)

Spring: All Years
 To be taken concurrently with CHEM 180. Experiments exploring properties of selected functional groups, enzymes as diagnostic reagents and isolation and properties of carbohydrates, lipids, proteins and nucleic acids. Credit not applicable to a chemistry major or minor.

CHEM 190 Topics in Chemistry (1-3)

This is a topical course and may be repeated when the topic changes.

CHEM 200 [B1] General Chemistry I (4)

Fall: All Years **Spring:** All Years
 General chemistry principles: atomic structure, stoichiometry, solutions, bonding, periodic properties of the elements, thermochemistry, and properties of solids, liquids and gases. Lab included. Safety exam must be passed to remain in CHEM 200 or subsequent lab courses. One of the following is required: a minimum MnSCU math placement exam score, a minimum ACT mathematics score, or successful completion of PDEV 100. **Prerequisite:** PDEV 100

CHEM 210 [B1] General Chemistry II (4)

Fall: All Years **Spring:** All Years
 General chemistry principles: kinetics, chemical equilibrium, acid-base chemistry, solubility equilibrium, thermodynamics, oxidation-reduction, electrochemistry, coordination chemistry, and nuclear chemistry. Lab included. **Prerequisite:** CHEM 200

CHEM 212 [B] Principles of Biochemistry (4)

Introductory Biochemistry for nursing and other preprofessional students. The course will cover necessary topics in atomic structure, bonding, acid/base chemistry, organic groups and chemical reactions for study of the major classes of biomolecules, metabolism and nucleic acids.

Prerequisite: CHEM 110 or CHEM 200

CHEM 300 Inorganic Chemistry I (3)

Fall: All Years

Aspects of bond theory, periodicity, acid-base chemistry, redox chemistry, reaction kinetics, energetics and chemistry of the elements.

Prerequisite: CHEM 210

CHEM 350 Survey of Organic Chemistry: Part I (3)

Fall: All Years

Introduction to the classification, structure, reactions, and reaction mechanisms of carbon compounds.

Prerequisite: CHEM 210

CHEM 355 Organic Chemistry Laboratory I (1)

Fall: All Years

Techniques for the purification, synthesis, and characterization of organic compounds and the study of organic reactions. **Prerequisite:** CHEM 210L

CHEM 360 Survey of Organic Chemistry: Part II (3)

Spring: All Years

The structure, nomenclature, reactions, reaction mechanisms, and synthesis of carbon compounds that contain oxygen and nitrogen.

Prerequisite: CHEM 350

CHEM 365 Organic Chemistry Laboratory II (1)

Spring: All Years

Purification, synthesis, and identification of organic compounds, and the study of organic reactions.

Prerequisite: CHEM 355

CHEM 380 Analytical Chemistry I (4)

Spring: All Years

Analytical applications of chemical equilibrium. Error analysis, chromatography, IR spectroscopy, UV spectroscopy, fluorescence and phosphorescence spectroscopic techniques in chemical analysis. Lab included. **Prerequisite:** CHEM 210

CHEM 400 Biochemistry I (3)

Fall: All Years

A survey of the chemistry and metabolism of living systems. Topics include structure, function and chemistry of biomolecules, and introduction to metabolism and metabolic pathways. This course is not an approved biology elective for the Biology Major. **Prerequisite:** CHEM 350

CHEM 405 Biochemistry Laboratory I (1)

Fall: All Years

Representative experiments in the quantitation, isolation and metabolism of naturally occurring substances. Techniques include: assay development, column chromatography, protein and nucleic acid isolation and analysis, protein electrophoresis, and enzymology. This course is not an approved biology elective for the Biology Major.

Prerequisite: CHEM 355

CHEM 410 Biochemistry II (3)

Spring: All Years

A survey of the chemistry and metabolism of living systems and nucleic acids biochemistry. Topics include biosynthetic biochemical pathways and nucleic acids biochemistry, signal transduction, biochemistry and cancer, protein synthesis and recombinant DNA theory.

Prerequisite: CHEM 400 or BIOL 400

CHEM 415 Biochemistry Laboratory II (1)

Spring: Odd Years

Course builds on acquired skills and presented techniques of CHEM 405. New techniques include: use of radionuclides in biochemical research, affinity and high performance liquid chromatography, electrophoresis and an introduction to recombinant techniques. **Prerequisite:** CHEM 405 or BIOL 405

CHEM 420 Inorganic Chemistry II (3)

Spring: Odd Years

Transition metal chemistry, valence bond, molecular orbital, crystal field, and ligand field theory, molecular symmetry. Bio-inorganic models.

Prerequisite: CHEM 300, CHEM 450

CHEM 425 Inorganic Chemistry Laboratory (1)

Spring: Odd Years

A synthesis and spectroscopic study of inorganic compounds. Techniques include: vacuum line synthesis, high temperature methods, inert gas techniques and organometallic synthesis.

Prerequisite: CHEM 300

CHEM 429 Topics in Analytical Chemistry (1-3)**Fall:** On Demand **Spring:** On Demand

Selected topics such as mass spectroscopy, nmr, electrochemical techniques, chemical separations and interfacing instruments with computers.

Prerequisite: CHEM 380**CHEM 439 Topics in Biochemistry (1-3)****Fall:** On Demand **Spring:** On Demand

Selected biochemical topics. Topics may include carbohydrates, lipids, proteins, enzymology, nucleic acids, metabolism or lab techniques such as chromatography, HPLC, and electrolysis.

Prerequisite: CHEM 400**CHEM 440 Secondary Science Teaching Methods (3)****Spring:** All Years

Materials and methods appropriate for junior and senior high school classes and laboratories. Must be taken prior to student teaching. Same as BIOL 440 and PHYS 440.

CHEM 442 Middle School Science Methods (1)**Spring:** All Years

Materials, methods and activities appropriate for middle school science classes and laboratories. Junior standing in elementary education (Science specialty). Must be taken prior to student teaching.

CHEM 449 Topics in Inorganic Chemistry (1-3)**Fall:** On Demand **Spring:** On Demand

Selected topics such as coordination chemistry, bonding, acid-base and nonaqueous solvent theory, organometallic chemistry and inorganic biochemistry. May be repeated when topic is changed.

Prerequisite: CHEM 300**CHEM 450 Physical Chemistry I (3)****Fall:** All Years

A survey of applications of physics and mathematics to chemical phenomena including thermodynamics, kinetics, and electrochemistry.

Prerequisite: MATH 262, PHYS 161, CHEM 210**CHEM 455 Physical Chemistry Laboratory I (1)****Fall:** All Years

Measurement of thermodynamic properties of gases, thermochemistry, electrochemistry, transport properties, and treatment of experimental data.

Prerequisite: MATH 262, PHYS 161, CHEM 210**CHEM 459 Topics in Physical Chemistry (1-3)****Fall:** On Demand **Spring:** On Demand

Selected topics such as kinetics, statistical thermodynamics or quantum chemistry.

Prerequisite: CHEM 450**CHEM 460 Physical Chemistry II (3)****Spring:** Even Years

A continuation of physical chemistry 450. Topics include introduction to quantum theory, group theory, spectroscopy and statistical mechanics.

Prerequisite: MATH 262, CHEM 450**CHEM 465 Physical Chemistry Laboratory II (1)****Spring:** Even Years

A continuation of physical chemistry laboratory 455. Chemical kinetics, spectroscopy and molecular orbital calculations. **Prerequisite:** CHEM 455

CHEM 469 Student Internship (2-8)**Fall:** On Demand **Spring:** On Demand

Supervised work experience. For majors only.

CHEM 475 Biotechniques I (5)**Fall:** All Years

This course includes three blocks of advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell physiology taught in a research setting. Additionally, students will work in teams to identify a faculty research mentor, prepare and present formal research proposals, and begin their research projects. Students must have senior standing in the biotechnology emphasis, which requires the completion of each of the biotechnology core courses with a grade of C or above. **Prerequisite:** BIOL 347, BIOL 385, CHEM 415, CHEM 380, CHEM 410 or BIOL 360

CHEM 476 Biotechniques II (5)**Spring:** All Years

This course is the second in a sequence for seniors in the biotechnology emphasis. The course includes two blocks of advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell physiology taught in a research setting along with one seminar block. Student research teams will continue to work on their research projects that were initiated in Biothechniques I. In the seminar block, students will make oral presentations critically evaluating scientific literature, prepare an abstract and written paper of their research, and finally prepare a poster to present the data from their research project.

Prerequisite: CHEM 475**CHEM 479 Topics in Organic Chemistry (1-3)****Fall:** On Demand **Spring:** On Demand

Selected topics such as natural product chemistry, advanced synthesis, advanced reaction mechanisms, and molecular modeling. **Prerequisite:** CHEM 350

CHEM 480 Analytical Chemistry II (4)**Fall:** Odd Years

(3 lecture credits, 1 laboratory credit) Instrumental analysis involving chromatography, spectroscopy and electrochemical techniques. QA/QC addressed.

Prerequisite: CHEM 380**CHEM 497 Undergraduate Research (1-3)****Fall:** All Years**Spring:** All Years

Research studies in all areas of chemistry. A research paper and oral presentation are required. May be repeated.

CHEM 498 Seminar (1)**Fall:** On Demand**Spring:** On Demand

Presentation by students based on critical evaluations of scientific literature and/or independent research.

Chinese

CHIN 101 [E] Beginning Chinese I (4)**Fall:** All Years

An introduction to the basic sounds and structure of Mandarin Chinese. Intended to provide a foundation in the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Chinese culture is also presented as an integral part of the course. Applicable toward East Asian Studies major and minor.

CHIN 102 [E] Beginning Chinese II (4)**Spring:** All Years

Fundamentals of Mandarin Chinese, second semester. Continues to develop the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Applicable toward East Asian Studies major and minor.

Prerequisite: CHIN 101**CHIN 132 [F/7] Introduction to Chinese Culture (3)****Fall:** All Years**Spring:** All Years

An introduction to the major aspects of Chinese culture from ancient times to the present. Topics include language, folklore, festivals, philosophy, religion, family, education, literature and daily life. Lecture, discussion, readings, and films in English. Applicable toward East Asian Studies major and minor. Same as HUM 132.

CHIN 190 Topics in Chinese Language, Literature, and Culture (1-4)**Fall:** On Demand**Spring:** On Demand

Topics in Chinese language, literature, and culture. May be repeated since content may vary. Applicable toward East Asian Studies major and minor.

CHIN 201 [E] Intermediate Chinese I (4)**Fall:** All Years

Continued practice and development of the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. An expanded awareness of Chinese culture is also an integral part of the course. Applicable toward East Asian Studies major and minor.

Prerequisite: CHIN 102**CHIN 202 [E] Intermediate Chinese II (4)****Spring:** All Years

Continued practice and development of the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. An expanded awareness of Chinese culture is also an integral part of the course. Applicable toward East Asian Studies major and minor.

Prerequisite: CHIN 201**CHIN 250 Beginning Chinese Calligraphy (2)****Spring:** All Years

Foundation course for learning the structures and various writing styles of Chinese characters. Students will discover the history and aesthetic values of Chinese calligraphy and will learn to write Chinese characters as an art form with a calligraphy brush and ink. Students will also learn the basic elements necessary to evaluate calligraphic works.

CHIN 290 Topics in Chinese Language, Literature, and Culture (1-4)**Fall:** On Demand**Spring:** On Demand

Topics in Chinese language, literature, and culture. May be repeated since content may vary. Applicable toward East Asian Studies major and minor.

CHIN 297 Independent Study in Chinese - Intermediate Level (1-2)**Fall:** On Demand**Spring:** On Demand

Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits. Credits may be applied toward East Asian Studies major and minor. **Prerequisite:** CHIN 201

CHIN 301 Advanced Chinese Grammar (4)**Fall:** All Years

Intensive study and practice of Chinese grammar, vocabulary, and writing. Applicable toward East Asian Studies major and minor.

Prerequisite: CHIN 202

CHIN 302 Chinese Conversation and Composition (4)**Spring:** All Years

Intensive practice in conversation, composition and stylistics for the development of both oral and written proficiency. Includes extensive reading of graded and culturally authentic materials. Applicable toward East Asian Studies major and minor.

Prerequisite: CHIN 301**CHIN 350 Chinese Calligraphy (2)****Spring:** All Years

This course is the second level of Chinese Calligraphy. Included is analysis and synthesis of famous Chinese proverbs, sayings, and poems and their transcription with a calligraphy brush. Learn how to evaluate calligraphic works through in-depth study of selected works by major calligraphers. This course is applicable toward the East Asian Studies major or minor. **Prerequisite:** CHIN 101, CHIN 250

CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)**Fall:** On Demand**Spring:** On Demand

Topics in Chinese language, literature, and culture. May be repeated since content may vary. Applicable toward East Asian Studies major and minor.

Prerequisite: CHIN 202**CHIN 397 Independent Study in Chinese - Advanced Level (1-2)****Fall:** On Demand**Spring:** On Demand

Selected project of advanced studies in Chinese language, literature, or culture as agreed upon by student and instructor. May be repeated up to a total of 4 credits. Applicable toward East Asian Studies major and minor. **Prerequisite:** CHIN 202

Criminal Justice**CJ 200 Introduction to Criminal Justice (4)****Fall:** All Years**Spring:** All Years

Overview of the criminal justice field focusing on the history and description of the contemporary United States system. The overview will include both the adult and the juvenile justice system.

CJ 300 Criminology (3)**Fall:** All Years

This course will survey the history of crime in society, including theories, research and commentaries on crime and delinquency.

CJ 309 Law and Society (4)**Fall:** All Years**Spring:** All Years

Relationships of law and society; social forces in law making; dynamics of law administration; social, cultural and behavioral effects of law; history and development of the legal profession; analysis of legal language and reasoning. Prerequisite may be waived with the consent of the instructor. Same as SOC 309.

CJ 335 Criminal Law (3)**Fall:** All Years

Substantive criminal law, development and meaning of principles of criminal law, current issues.

CJ 337 Criminal Procedure (3)**Spring:** All Years

The course will examine contemporary interpretations of the U.S. Constitution's protections for the criminally accused, which are primarily found in the 4th, 5th, 6th, 8th, and 14th Amendments.

CJ 390 Topics in Criminal Justice (1-3)**Fall:** On Demand**Spring:** On Demand

Varying topics from the discipline of criminal justice.

CJ 400 Seminar in Criminal Justice (2)**Fall:** All Years**Spring:** All Years

An in-depth analysis of a topic in criminal justice.

CJ 430 Minnesota Criminal Law and Procedure (4)**Fall:** All Years

The Minnesota criminal statutes as well as the Minnesota rules of criminal procedure are examined. Technical study of police report writing designed to meet the standards of the POST Board licensing examination will be covered.

Prerequisite: CJ 335 or POL 335**CJ 469 Internship in Criminal Justice (3-12)****Fall:** All Years**Spring:** All Years

Credits may not be applied to the criminal justice major.

CJ 497 Readings in Criminal Justice (1-3)**Fall:** All Years**Spring:** All Years

Selected readings in Criminal Justice under the close supervision of a member of the CJ program.

Construction Management

CM 105 Introduction to Construction Management (1)

Fall: All Years **Spring:** All Years
An overview of the construction industry which introduces the student to the duties and responsibilities of the professional construction manager. Lectures, field trips, and speakers will expose students to the fundamentals of construction techniques and methods employed by professionals in the industry with an emphasis on career opportunities.

CM 190 Topics in Construction Management (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division topical course in Construction Management. The course may be repeated when the topic is different.

CM 205 Professional Growth Seminar I (1)

Fall: All Years
This course is directed towards the overall growth of the student. As students progress from their sophomore through senior years, they will be required to complete 20 units of combined professional growth and community outreach to be eligible for graduation. As a requirement of CM 496 Capstone Experience, students are required to provide documentation that they have completed the 20 unit requirement.

CM 214 Residential Building Construction (3)

Spring: On Demand
An analytical study of residential building plans and specifications. Coursework will focus on the design, layout, and selection of appropriate building materials. Other topics including building codes, zoning ordinances, and energy efficiency will be emphasized.

CM 216 Construction Graphics (3)

Fall: All Years **Spring:** All Years
This course dedicates one credit hour each to sketching/construction graphics, introduction to 2-D Auto CAD, and 3-D architectural AutoCAD. Students are required to complete a design project that will reinforce the materials presented while emphasizing the design process of a construction project. This background would give students the CAD and design process background needed for CM 496-Capstone Experience.

CM 220 Commercial Building Methods and Materials (3)

Fall: All Years
Theories and principles of commercial building construction materials and methods will be discussed. The course lectures will be structured in accordance with the Construction Specifications Index (CSI) format of work divisions.

CM 290 Topics in Construction Management (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division topical course in Construction Management. The course may be repeated when the topic is different.

CM 325 Heavy/Highway Construction Materials (3)

Spring: All Years
Course subjects include a study of the basic engineering properties of soils and compaction applications. Other topics include how concrete and asphalt are used as construction materials and analysis of their engineering properties. Design and construction applications of flexible and rigid pavements are presented. **Prerequisite:** MATH 229

CM 326 Heavy/Highway Construction Materials Lab (1)

Spring: All Years
Lab will include activities which help the student better understand the engineering properties and field processes associated with fine and coarse-grained soils, concrete, and asphalt. Must enroll concurrently in CM 325.

CM 330 Estimating I: Quantity Survey (3)

Fall: All Years
Students will study basic principles and practices of estimating focusing on quantity survey. From a set of commercial building working drawings and specifications, students will perform material takeoffs associated with Divisions 1-14. They will determine all quantities necessary to effectively price a construction project in CM 430. **Prerequisite:** CM 220, CM 216

CM 334 Construction Cost Analysis (3)

Spring: On Demand
This course will analyze a contractor's ability to bid, bond, and perform a construction project. Students will also set up and analyze a construction budget/cost control system that will effectively identify cost overruns and which can be used to bid future similar projects. **Prerequisite:** ACCT 230

CM 340 Planning and Scheduling (3)**Spring:** All Years

Theories and principles of construction planning and scheduling will be studied. Students will use the Critical Path Method as a primary technique of planning, scheduling, and monitoring work. Students will use “Primavera” scheduling software when scheduling projects are assigned.

Prerequisite: CM 330**CM 350 Structural Design and Analysis (3)****Spring:** All Years

The course will cover concepts for analyzing and designing beams and columns. Principles of shear and moment diagrams and their applications to the selection of adequate structural members under given loading conditions are analyzed. Structural steel, timber, and reinforced concrete materials will be discussed. **Prerequisite:** ENG 243

CM 354 Mechanical/Electrical Systems (3)**Fall:** All Years

A study of mechanical and electrical construction, emphasizing principles of heating, cooling, ventilation, water supply, waste disposal and electrical distribution. Temporary services and code requirements are analyzed. Lab activities cover basic applications and overview of product.

Prerequisite: CM 330**CM 370 Construction Documents and Specifications (3)****Fall:** On Demand

This course will focus on the terms and concepts of construction contracts and documents. Procedures used to prepare construction specifications and contracts using the CSI format will be covered. The course discusses the liabilities and incentives for various kinds of construction contracts.

CM 390 Topics in Construction Management (1-3)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course in Construction Management. The course may be repeated when the topic is different.

CM 425 Equipment Productivity and Analysis (3)**Fall:** All Years

A study of planning, estimating, and managing performance of commonly recognized construction equipment. This course will emphasize the factors that govern or control equipment productivity on construction projects. Students will also study operating and ownership costs.

Prerequisite: CM 325, CM 330**CM 430 Estimating II-Pricing and Productivity (3)****Spring:** All Years

Students will learn the fundamentals of pricing out a quantity survey and the relationship of how productivity factors are used to formulate unit pricing. They will estimate the material, labor, equipment, subcontractor, and overhead cost of the commercial building project that was completed in CM 330. “Timberline” estimating software is utilized extensively as a basis for learning principles of computerized estimating. Job cost accounting procedures are emphasized. **Prerequisite:** CM 330

CM 440 Project Control (3)**Spring:** All Years

The course topics will include cash flow forecasting, resource leveling, resource allocation, schedule updating, short-interval scheduling, earned value, and linear scheduling techniques. “Primavera” scheduling software is utilized when completing class projects. Students must have Junior standing.

Prerequisite: CM 340, CM 430**CM 455 Heavy/Highway Estimating and Work Plan Analysis (3)****Spring:** All Years

A study of heavy/highway construction projects including roads, bridges, water/wastewater treatment, and large earthwork projects. In addition to estimating H/H projects, students will apply production techniques and principles to properly manage the heavy/highway construction process.

Prerequisite: CM 340, CM 425, CM 430**CM 460 Project Administration (3)****Fall:** All Years

Students will be exposed to the daily construction administrative procedures and responsibilities which occur when managing a construction project. Reporting procedures will be emphasized, along with job site and home-office documentation.

Prerequisite: CM 340, CM 370, CM 430**CM 465 Construction Safety (2)****Spring:** All Years

The course focus will be on the planning and administration of construction safety programs. Other topics include the history and development of Federal and State Construction safety standards and methods for abatement and control of job site hazards to develop a safe construction project. Junior standing is required.

Communication Studies

CM 469 Internship (2-12)

Fall: On Demand **Spring:** On Demand
Available to all majors in Construction Management. Approved practical work experience. Supervised by departmental faculty. Maximum of 12 credits may be applied to graduation requirements.

CM 470 Construction Law (3)

Fall: All Years
An in-depth study emphasizing the legal issues involved in the implementation and management of contracts, specifications, and other construction documents. Other issues, strictly related to the construction industry, will be discussed including labor laws, unions, and the rights and responsibilities of the contracting parties. **Prerequisite:** CM 370

CM 485 Computer Integrated Construction (3)

Fall: On Demand **Spring:** On Demand
Students are required to develop a construction website to assimilate all construction project information at a single location via the web. Every aspect of project information essential to manage construction projects will be controlled from the construction website. **Prerequisite:** CM 315, CM 440, CM 460

CM 490 Topics in Construction Management (1-3)

Fall: On Demand **Spring:** On Demand
This is an upper division topical course in Construction Management. The course may be repeated when the topic is different.

CM 496 Capstone Experience (3)

Fall: All Years **Spring:** All Years
The course will be an individualized project, which will integrate the coursework concepts of the core program into an application activity. Students will utilize all of the construction software used throughout the core program. In addition, materials assembled by the student over a two-year period for their professional growth portfolio will be evaluated during this course. Any student failing to meet the professional growth portfolio requirements will receive an incomplete for CM 496. **Prerequisite:** CM 205, CM 216, CM 440, CM 460

CMST 100 [E/1A] Speech Communication (3)

Fall: All Years **Spring:** All Years
The theory and practice of oral communication in public and interpersonal situations, stressing both content and delivery.

CMST 101A Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Communication.

CMST 101B Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Communication.

CMST 101C Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Communication.

CMST 101D Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Communication.

CMST 102 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Communication.

CMST 105 [E] Beginning Oral Interpretation (3)

Fall: On Demand **Spring:** On Demand
The theory and practice of the oral presentation of literature, critical listening and constructive criticism; performances include poetry, prose and drama.

CMST 110 [E/5] Introduction to Communication Studies (3)

Fall: All Years
This course provides an overview of many of the contexts, concepts, and areas of research in the field of Communication Studies. This course will provide students with opportunities to explore and apply various communication competencies.

CMST 111 [E/2] Argumentation and Debate (3)

Fall: All Years **Spring:** All Years
This course introduces students to argumentation theory and provides the opportunity to practice skills in reasoning, argumentation, and critical thinking. The course focuses on multicultural arguments as they appear in politics, society, and the media.

CMST 161 Forensics Practicum (1)**Fall:** All Years **Spring:** All Years

Practical experience in public speaking, oral interpretation, and/or Lincoln-Douglas debate for inter-collegiate tournaments and on-campus activities. May be repeated for credit.

CMST 190 Topics in Communication (1-3)**Fall:** On Demand **Spring:** On Demand

This is a lower division topics course and may be repeated when the topic changes.

CMST 202 Practicum (1)**Fall:** All Years **Spring:** All Years

Practical experience in a performance activity in Communication.

CMST 210 [E] Introduction to Communication Theory (3)**Fall:** All Years

Through lecture, writing, and discussion, students will explore the discipline of communication including basic theories of interpersonal, group, intercultural, and organizational communication.

CMST 215 Communication Research Methods (3)**Spring:** Even Years

Research in communication studies employs a variety of empirical methods to generate theories about human communication phenomena. This class introduces students to social-scientific methodologies including quantitative and qualitative approaches. Students are expected to both critically evaluate research and perform original research related to the discipline.

CMST 290 Topics in Communication (1-3)**Fall:** On Demand **Spring:** On Demand

This is a lower division topical course and may be repeated when the topic changes.

CMST 300 [F] Intercultural Communication (3)**Spring:** Even Years

Examines selected major theories of intercultural communication and applies them in analyzing, understanding and comparing the communication practices of different cultures and sub-cultures. Focuses upon how culture and society affect the specific rhetorical communication tactics and processes as well as non-verbal communication practices.

CMST 301 Business and Professional Communication (3)**Fall:** All Years **Spring:** All Years

Focuses on the application and practice of both oral and written communication skills for a variety of business and professional situations including job interviews, team and group interactions, and public presentations. This course also provides opportunities for students to explore issues of diversity and technology as related to professional communication. **Prerequisite:** CMST 100

CMST 302 Practicum (1)**Fall:** All Years **Spring:** All Years

Practical experience in a performance activity in Communication.

CMST 308 [E] Leadership and Group Communication (3)**Spring:** Odd Years

Presents theories of small group communication, group dynamics, communication patterns, role norms and leadership. Class designed around two fundamental components: experiential and cognitive. A substantive group research and problem-solving assignment is included. **Prerequisite:** CMST 100

CMST 309 Training and Development (3)**Spring:** Even Years

This course examines the application of communication theories in the context of training and development. Development, design, and presentation of training materials will be covered, along with facilitation of training sessions. Class includes significant experience in program development and implementation. **Prerequisite:** CMST 100

CMST 310 [E] Rhetorical Theory and Criticism (3)**Fall:** Odd Years

Examines the theory and criticism of rhetoric from its beginnings in classical times to its contemporary development. Discusses classical, British, contemporary, and postmodern theories of rhetoric and rhetorical criticism.

CMST 311 [E] Principles of Persuasion (3)**Fall:** Even Years

This course will explore the logical and psychological theories of persuasion as they occur in a range of communication situations. **Prerequisite:** CMST 100

CMST 313 Communication, Technology, and Culture (3)**Spring:** Odd Years

Advancements in communication technology, including the Internet, have transformed the ways in which individuals communicate and form communities and has become a hallmark of contemporary Western culture. This course explores the dramatic changes in human communication as a result of such technology. Particular emphasis is given to epistemological and ontological implications of the move to a digital culture.

CMST 315 Interpersonal Communication (3)**Fall:** Even Years

This course is designed to explore various communication theories, based on the development of self and the development and maintenance of relationships with others.

Prerequisite: CMST 100 or CMST 210**CMST 361 Advanced Forensics (1)****Fall:** All Years **Spring:** All Years

Practical experience in tournament management and/or coaching. May be repeated for credit.

Prerequisite: CMST 161**CMST 390 Topics in Communication (1-3)****Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic changes.

CMST 401 Organizational Communication (3)**Fall:** Odd Years

Focuses on the study of communication processes, the management of meaning through symbolic interactions, within organizational contexts. To study symbolism is to explore how meanings on which people base action are constructed, communicated, contested, and changed. The first part of the class examines perspectives/theories of organizing and communication. The second part of the class investigates specific topics of organizational communication research (e.g., power, technology, democracy). **Prerequisite:** CMST 210

CMST 402 Practicum (1)**Fall:** All Years **Spring:** All Years

Practical experience in a performance activity in Communication.

CMST 405 Research Practicum (1)**Fall:** On Demand **Spring:** On Demand

Provides opportunity for students to conduct research. May be repeated for credit. **Prerequisite:** CMST 215 or CMST 310 or CMST 410

CMST 406 Academic Service-Learning Practicum (1)**Fall:** On Demand **Spring:** On Demand

Provides opportunity for students to apply classroom concepts and theories to an academic service-learning project. May be repeated for credit.

CMST 410 The Rhetoric of Popular Culture (3)**Spring:** Odd Years

Examines how popular culture artifacts generate meanings in contemporary society. Surveys various rhetorical approaches to understanding popular culture including dramatic, Marxist, feminist, media-centered, and cultural.

CMST 414 Health Communication (3)**Fall:** On Demand **Spring:** On Demand

Focuses on how health, illness, and healing acquire meaning through symbolic interactions located within social, political, economic, and cultural structures. This course explores various arenas in which health is socially constructed including interpersonal interactions, small group and organizational settings, public discourse and popular culture. Across contexts, there is an emphasis on exploring current issues facing the health care industry including telemedicine, financial reform, the patients' rights movement, and other factors influencing health communication.

Prerequisite: CMST 210**CMST 415 Teaching Methods: Communication Studies (3)****Spring:** Odd Years

Methods of conducting high school communication studies courses and activities, structuring of curriculum, selecting and developing course materials, and methods of evaluation.

CMST 416 Special Projects in Speech Communication (1-3)**Fall:** On Demand **Spring:** On Demand

Advanced individualized creative or investigative work in a particular phase of communication studies. May be taken more than once if content is substantially different.

CMST 469 Internship (3-12)**Fall:** On Demand **Spring:** On Demand

Offered on demand.

CMST 490 Topics in Communication (1-3)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic changes.

CMST 496 Senior Seminar (3)

Spring: All Years

Capstone course for Communication Studies majors; proposal, completion, and presentation of projects; pre-professional skills; written exam integrating and applying knowledge from separate courses. Grade of "C-" or higher is required for graduation.

Computer Science & Information Systems

CSIS 101 Introduction to the Internet (2)

Fall: On Demand **Spring:** On Demand

Introduces the student to the facilities of the Internet for information exchange. Topics covered include search and retrieval tools, file transfer, electronic mail and bulletin board systems. Personal and commercial applications on local area networks and wide area networks are considered.

CSIS 103 Computer Concepts and Applications (3)

Fall: All Years **Spring:** All Years

Introduction to basic computer concepts including hardware and software. Introduction to and hands-on experience with Windows, spreadsheets, word processors, database management systems, and presentation software as used in a business setting.

CSIS 104 Spreadsheet and Database Applications (3)

Fall: All Years **Spring:** All Years

A brief review of Windows, word processing and presentation software. In-depth coverage of a spreadsheet and a database management system as used in a business setting. Students should be familiar with Windows and word processing. Familiarity with Windows and word processing is required.

CSIS 130 Introduction to Visual Programming (3)

Fall: All Years **Spring:** All Years

Introduction to computer programming in a visual programming environment. The course is designed for non-majors wanting a hands-on introduction to computer programming.

CSIS 140 Introduction to Information Systems and Internet Technologies (4)

Fall: All Years

Introduction to information systems fundamentals and modern Web-enabled information systems. Introduction to contemporary Internet technologies based on the emerging set of applications, services, and standards that make it possible for information systems and software programs to communicate with each other and share information over the Web.

CSIS 152 Introduction to Computers and Programming I (4)

Fall: All Years **Spring:** All Years

Introduction to problem solving, algorithm development, elementary data structures, data abstraction, and structured programming in a high-level language. **Prerequisite:** MATH 142

CSIS 190 Special Topics (1-3)

Fall: On Demand **Spring:** On Demand

A study of special topics not offered regularly in other CSIS courses. May be repeated when the topic is different.

CSIS 220 Digital Logic and Lab (4)

Fall: All Years

An introduction to the logical design of computers including Boolean algebra, logical devices, combinational and sequential circuit analysis and synthesis. Includes a three-hour per week laboratory devoted to the implementation and testing in computer logic circuits. **Prerequisite:** CSIS 252

CSIS 250 File Organization, Processing, Maintenance and Reporting (4)

Spring: On Demand

Sequential and random access storage devices, file manager, I/O control, buffering, ISAM and VSAM index structures. Multi-level control break reporting of enterprise master files with and without a report writer. Batch updates to sequential and indexed master files with transaction audit reports.

Prerequisite: CSIS 252

CSIS 251 Assembly Language Programming (3)

Fall: On Demand **Spring:** On Demand

Introduction to an assembly language, machine architecture and assembly language programming.

Prerequisite: CSIS 220

CSIS 252 Introduction to Computers and Programming II (4)

Fall: All Years **Spring:** All Years

Continuation of CSIS 152 with emphasis on data structures. Discussion of representations and processing techniques for lists, strings, trees, graphs, and records. **Prerequisite:** CSIS 152

CSIS 257 Object-Oriented Software Development (3)**Spring:** On Demand

The course will discuss Object-Oriented (OO) concepts, analysis, and design, and implementation using OO programming languages. Features of these programming languages are illustrated with programming examples from popular OO programming languages such as C++ and Java. Students are expected to carry out a software development project using OO analysis and design.

Prerequisite: CSIS 252**CSIS 260 Current Programming Languages (3)****Fall:** On Demand **Spring:** On Demand

A study of a current programming language that is popular in industry. **Prerequisite:** CSIS 252

CSIS 290 Special Topics (1-3)**Fall:** On Demand **Spring:** On Demand

A study of special topics not offered regularly in other CSIS courses. May be repeated when the topic is different. Consent of instructor is required.

CSIS 316 Ethics in the Information Age (3)**Fall:** On Demand **Spring:** On Demand

An introduction to ethical issues associated with the Information Age. A description of what the Information Age is, how it came to be, and what makes it different from the previous age. Study of new ethical issues arising from, or given increased prominence by, the Information Age advances in information collection, storage, retrieval, processing, and dispersion. Ethical issues to be covered include privacy, surveillance, accuracy, free speech, intellectual property, Internet crime, identify theft, spam, information access, information dispersion, and some consequences of data mining and emerging technologies. Sophomore status or completion of the Inner Cluster core is required.

CSIS 320 Architecture (3)**Spring:** All Years

This course builds on the concepts and techniques of CSIS 220. Basic principles of processor organization, machine instructions, addressing modes, memory management, and input/output operations.

Prerequisite: CSIS 220**CSIS 330 Analysis and Design of Algorithms (3)****Fall:** On Demand

Apriori and aposteriori complexity analysis. Problem solving strategies: Divide and Conquer, Greedy, Dynamic Programming, Backtracking, and Branch-and-Bound. Applications to AI. Problem state spaces and search strategies. Parallel and Distributed Algorithms. Computability and Undecidability. Complexity Classes.

Prerequisite: MATH 225, CSIS 252**CSIS 335 Graphical User Interface Programming (3)****Fall:** All Years

Techniques and tools for the development of graphical user interfaces will be discussed. Event-driven and object-oriented programming techniques will be highlighted. The course provides experience with a visual programming environment, and introduction to design issues for user interfaces, and an introduction to creating visual interfaces for database environments. **Prerequisite:** CSIS 252

CSIS 336 C#.Net Programming (3)**Spring:** All Years

A comprehensive introduction to programming using Visual C#.Net for students with experience in at least one high-level programming language. The course provides students with all the necessary skills to build Windows applications, Web applications, and XML Web services. **Prerequisite:** CSIS 252

CSIS 340 Software Engineering (4)**Spring:** All Years

A study of the software development life-cycle including Requirements, Design, Implementation, Testing, Maintenance and Quality Assurance. Tools, techniques and methods will be studied. Project required. **Prerequisite:** ENGL 387 CSIS 252

CSIS 345 Analysis and Design of Information Systems (3)**Fall:** All Years

Use information systems methodologies to solve enterprise wide managerial and organizational problems. Students will use the system development life-cycle and other methodologies with CASE tools to develop multi-user systems including using database. Project required. Junior standing in a CSIS major is required.

CSIS 346 Design, Implementation and Support of Information Systems (3)**Spring:** All Years

This course reviews and builds on the concepts, methodologies and tools studied in CSIS 345. An in-depth study of the Software Development Life-Cycle, User Interface and Input/Output design. Introduction to Object-Oriented Analysis and Design. Projects required. **Prerequisite:** CSIS 345

CSIS 349 Networks and Data Communications (3)**Fall:** All Years

Introduction to concepts and terminology of data communications technology. Local area and Long-haul networks; network architecture models and protocols; communications hardware, standards, media, signaling concepts, and channel characteristics; error prevention, detection and correction; distributed data processing and data communications trends. Project required. Junior standing in a CSIS major is required.

CSIS 352 Advanced Concepts in Programming (3)**Spring:** All Years

Continuation of CSIS 252 with emphasis on the implementation of data structures, implementation alternatives, and algorithm analysis.

Prerequisite: CSIS 252**CSIS 355 Systems Software (3)****Spring:** On Demand

Introduction to concepts in systems programming including assembly, relocation, linking and loading, translation and sequential operating systems. Project required. In addition to the listed prerequisites, CSIS 340 is recommended. **Prerequisite:** CSIS 251 or CSIS 320

CSIS 358 Introduction to Parallel Computing (3)**Spring:** On Demand

History of large scale computing and architectural classification of various parallel processing machines. Measurement of performance and methods of optimization. Dependencies and their influences upon vectorization and parallelism. Introduction to distributed systems, interconnection topologies and communication issues. A platform for parallel programming will be introduced.

Prerequisite: CSIS 252**CSIS 360 UNIX Programming and Development Tools (3)****Fall:** On Demand

An introduction to UNIX programming and program development tools. Considers the UNIX file system, shells, scripting languages, system calls, signal handling, interprocess communication, and tools for constructing, archiving, debugging, testing and installing software products. **Prerequisite:** CSIS 252

CSIS 390 Topics in Computer Science (1-3)**Fall:** On Demand**Spring:** On Demand

Discussion of current topics not included in other computer science courses.

CSIS 405 E-Commerce Technology (3)**Spring:** All Years

The defining characteristic of modern e-commerce firms is that they are profitable, sustainable, efficient, and innovative firms with powerful brand names. The course focuses on the technology infrastructure that forms the foundation for all e-commerce. This infrastructure drives developments in payment systems, security, marketing strategies and advertising, financial applications, business-to-business trade, and retail commerce.

Prerequisite: CSIS 140, CSIS 340 or CSIS 345**CSIS 430 Operating Systems (4)****Fall:** All Years

A study of operating systems as a resource manager with emphasis on process management and synchronization, CPU scheduling, deadlocks, memory management, virtual memory, file management, I/O systems, and distributed systems. Project required.

Prerequisite: ENGL 387, CSIS 320**CSIS 435 Compilers (4)****Spring:** All Years

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. Students are expected to carry out a project which involves developing a front-end (lexical analyzer, parser and 3AC generator) of a compiler for a hypothetical Pascal-like language. In addition to the listed prerequisite, Junior standing in a CSIS major is required. **Prerequisite:** MATH 225

CSIS 440 Computer Networks Software Concepts (3)

Spring: On Demand

A study of how TCP/IP protocol software functions and interacts to facilitate communication across an internet. The Client/Server Model, its service techniques, efficiency and security issues are investigated in detail. Programming project(s) required. **Prerequisite:** CSIS 349

CSIS 443 Artificial Intelligence (3)

Spring: On Demand

Introduction to artificial intelligence including theorem proving, heuristic searches, problem solving, computer analysis of scenes, robotics, natural language understanding and knowledge base systems. Junior standing in a CSIS major is required.

CSIS 444 Database Concepts, Design and Implementation (4)

Fall: All Years

A brief history of file systems and database models. An in-depth study of the Relational Database Model and Database Design. SQL will be used to create, manipulate, and query a relational database using a DBMS. Other topics include Transaction Management, Concurrency Control, Distributed Databases, and Database Administration. Project required. **Prerequisite:** CSIS 340 or CSIS 345

CSIS 445 Graphics (3)

Spring: On Demand

Introduction to graphics display technology and graphics standards. Software issues for scan conversion, interactive graphics, and 2- and 3-dimensional graphics, along with their related mathematical theory are investigated. Project required. Junior standing in a CSIS major is required.

CSIS 446 Decision Support Systems (3)

Spring: All Years

Introduction to the concepts and tools used in the development of decision support systems, executive information systems and expert systems including the systems development process and strategy for developing such systems. Junior standing in a CSIS major is required.

CSIS 450 Programming Languages (3)

Fall: All Years

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. Junior standing in a CSIS major is required.

CSIS 469 Internship (1-6)

Fall: All Years

Spring: All Years

Opportunity for students to supplement classroom learning with field work with a computer-using agency. A maximum of 3 credits applicable toward the major. Junior standing in a CSIS major is required.

CSIS 485 Senior Seminar (1)

Fall: All Years

Library and independent study of advanced computing topics followed by oral and written presentations. Students should plan to take this course in the year that they graduate.

CSIS 490 Topics in Computer Science (1-3)

Fall: On Demand

Spring: On Demand

Discussion of current topics not included in other computer science courses. Up to 3 credits can be applied to the major. Junior standing in a CSIS major is required.

CSIS 497 Undergraduate Research (1-3)

Fall: On Demand

Spring: On Demand

Undergraduate research of advanced topics under the guidance of department faculty. Up to 3 credits can be applied to the major. Junior standing in a CSIS major is required.

E-Business

EBUS 280 Intro to E-Business (3)

Fall: On Demand

Spring: On Demand

This course will introduce students to the area of electronic business and its major components. Students will examine the infrastructure of electronic commerce and understand the process a business goes through when incorporating electronic transactions into its business processes.

EBUS 340 E-Commerce and Enterprise Resource Planning (3)

Fall: On Demand

Spring: On Demand

This course will detail the technological relationships between the four functional business areas and the possibilities for integration among the areas. Students will utilize Great Plains e-Enterprise software to apply both e-Commerce and ERP methodology to case study situations in a lab setting.

EBUS 360 Law and Ethics in E-Business (3)**Fall:** On Demand **Spring:** On Demand

This course involves an analysis of major legal and ethical issues involved in electronic business. Topics include intellectual property, contracts, cybercrimes, privacy, government regulation, torts and jurisdiction issues from the perspective of law and ethics in an electronic environment. **Prerequisite:** EBUS 280

EBUS 410 Web-Based Marketing (3)**Fall:** On Demand **Spring:** On Demand

This course will study the two main areas of Internet marketing: the web site as a marketing tool and Internet demand creation activities. Students will develop a business marketing plan utilizing the Internet as a marketing medium and work with Internet marketing tools used in electronic business.

Prerequisite: EBUS 280, EBUS 340**EBUS 420 Online Customer Relationship Management (3)****Fall:** On Demand **Spring:** On Demand

This course will study how automated customer relationship management systems are used to identify, attract, service and retain customers. Course study will include the areas of Sales Force Automation (SFA), Call Center Automation (CCA), and Marketing Automation.

Prerequisite: EBUS 280, EBUS 340**EBUS 430 Electronic Supply Chain Management (3)****Fall:** On Demand **Spring:** On Demand

This course will be on the study of electronic supply chain management, a function of electronically integrating a company's external operations with its supply chain partners. Students will utilize Great Plains Supply Chain Planning (SCP) and Warehouse Management System (WMS) software to apply supply chain methodologies to case study situations in a lab setting. **Prerequisite:** EBUS 280, EBUS 340

EBUS 470 E-Business Project Management (3)**Fall:** On Demand **Spring:** On Demand

This course will emphasize the importance of effective project planning to the success of building an online business. Areas of study will include project scoping, project timeline, resource planning and budgeting (planning for sufficient capital), and implementation issues.

Economics**ECON 100 The American Economy (3)****Fall:** All Years **Spring:** All Years

A one semester course in principles of economics with special emphasis in developing critical thinking skills and understanding the unique economic experiences of different groups in the American Economy. This course is for non-business and non-economics majors.

ECON 202 [C] Principles of Economics I: Micro (3)**Fall:** All Years **Spring:** All Years

An introductory study of the price system, resource allocation, and income distribution.

ECON 204 [C] Principles of Economics II: Macro (3)**Fall:** All Years **Spring:** All Years

An introductory study of national income, fiscal and monetary theory and policy, unemployment and inflation. Prerequisite can be waived with consent of the instructor. **Prerequisite:** ECON 202

ECON 300 [F] Global Economic Issues (3)**Fall:** All Years **Spring:** All Years

An introductory study of global economic issues of a selected region or country from Asia, Africa or Latin America. Topics include international trade theory, views of writers from selected regions, economic development, demographic trends, foreign investment, and international distribution of income and wealth. **Prerequisite:** ECON 202, ECON 204

ECON 302 Intermediate Microeconomic Theory (3)**Fall:** All Years

Theories of consumer and producer behavior under various market structures; theory of production and distribution; general equilibrium and welfare criteria.

Prerequisite: ECON 202, ECON 204**ECON 304 Intermediate Macroeconomic Theory (3)****Spring:** All Years

An examination of national income accounting, income determination, employment, growth theory and economic policy.

Prerequisite: ECON 202, ECON 204**ECON 305 [F1] The Economics of Poverty, Discrimination, and Inequality (3)****Fall:** On Demand **Spring:** On Demand

An examination of poverty, discrimination, and income inequality among diverse populations in the United States. Topics include causes of poverty, economics of discrimination in terms of majority and minority groups, and historical perspective of ethnic minorities. **Prerequisite:** ECON 100 or ECON 202

ECON 315 Government and Business (3)**Fall:** Odd Years

A survey course which includes governmental enforcement of competition, regulation of public utilities, and public enterprise. Same as MGMT 315.

Prerequisite: ECON 202, ECON 204**ECON 317 History of Economic Thought (3)****Spring:** On Demand

The origins and development of economic ideas from ancient times to the present are examined.

Prerequisite: ECON 202, ECON 204**ECON 320 Money and Banking (3)****Fall:** All Years **Spring:** All Years

Roles of money, banking and the financial market place; monetary policy; relationship of monetary variables to general economic policy.

Prerequisite: ECON 204, ECON 202**ECON 335 Comparative Systems and Economic Development (3)****Fall:** On Demand **Spring:** On Demand

A survey of alternative economic systems and theories of economic development. Examines the relationship between economic development of a country or group of countries and the economic system it/they have adopted.

Prerequisite: ECON 300**ECON 350 Public Finance (3)****Fall:** On Demand **Spring:** On Demand

Study of taxes and expenditures of federal, state, and local governments and their effects upon economic activity; fiscal policy and national debt.

Prerequisite: ECON 202, ECON 204**ECON 370 Quantitative Economic Analysis (3)****Fall:** All Years

Study of quantitative techniques employed in economics.

Prerequisite: ECON 202, ECON 204, MATH 234**ECON 390 Topics in Economics (1-3)****Fall:** On Demand **Spring:** On Demand

Topics of current interest not covered elsewhere in curriculum.

ECON 411 Economic History of the United States (3)**Fall:** On Demand **Spring:** On Demand

Survey of the economic history of the United States from the colonial period to the present.

Prerequisite: ECON 202, ECON 204**ECON 415 Industrial Organization and Public Policy (3)****Spring:** Even Years

Analysis of market structure, market conduct, and economic performance. It combines the latest theories with empirical evidence about the organization of firms and industries. Same as MGMT 415.

Prerequisite: ECON 202, ECON 204**ECON 416 Labor Economics (3)****Fall:** On Demand **Spring:** On Demand

Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation. Same as MGMT 416.

Prerequisite: ECON 202, ECON 204**ECON 425 International Trade and Finance (3)****Spring:** All Years

Theories and institutions of trade and finance are examined in traditional and contemporary contexts.

Prerequisite: ECON 202, ECON 204**ECON 430 Managerial Economics (3)****Fall:** On Demand **Spring:** On Demand

Integration of quantitative methods and economic theory used in managerial decision-making. Same as MGMT 430. **Prerequisite:** ECON 202, MGMT 360

ECON 469 Internship (1-12)**Fall:** On Demand **Spring:** On Demand

Supervised economic field work through placement in governmental, volunteer or commercial agencies.

ECON 492 Individual Study in Economics (1-3)**Fall:** On Demand **Spring:** On Demand

Individual inquiry in economics. May be repeated for credit. **Prerequisite:** ECON 202, ECON 204

ECON 497 Undergraduate Research in Economics (1-3)**Fall:** On Demand **Spring:** On Demand

Individual inquiry in economics resulting in a research paper. May be repeated for credit.

Prerequisite: ECON 202, ECON 204**ECON 498 Economics Seminar (3)****Fall:** On Demand **Spring:** On Demand

A capstone course requiring a research paper using tools of economic analysis, and a written and oral presentation.

Education

ED 205 Introduction to Education and Technology (2)**Fall:** All Years **Spring:** All Years

An introduction to the career of teaching along with the development of technology skills. Specific variables related to the teaching as a profession are explored including professional roles and responsibilities, students, curriculum, and the structure of schools.

ED 205E Early Field Experience (1)**Fall:** All Years **Spring:** All Years

A 40 hour field experience to be taken concurrently with ED 205.

ED 294 Educational Psychology (3)**Fall:** All Years **Spring:** All Years

Explains psychological theory and research related to learning and instruction in various classroom settings.

ED 310 Social Foundations of Education (3)**Fall:** All Years **Spring:** All Years

Historical, social, and multicultural foundations of education will be studied. Social and ethical issues will be examined with consideration of implications for teaching in order to better understand education within a context of a changing society. A variety of interactive methods will be employed. Students in all teaching licensure programs will enroll in ED 310.

Prerequisite: ED 205E, ED 294, ED 205**ED 343 Curricular Issues (3)****Fall:** All Years **Spring:** All Years

Curricular issues in general education, including standards-based instruction, current educational debates, and practical applications provide the framework for ED 343. This course is required for students earning licensures in Special Education.

Prerequisite: ED 205, ED 205E, ED 294, PSY 202**ED 350 Diverse Distance Technologies (2)****Fall:** On Demand **Spring:** On Demand

Knowledge related to media education with emphasis upon the use of audiovisual media and technology in the classroom. With lab.

ED 352 Production of Instructional Materials (2)**Fall:** On Demand **Spring:** On Demand

Basic methods and techniques for the production of graphic, audio and photographic instructional media. With lab.

ED 367 Practicum: General Education (1)**Fall:** All Years **Spring:** All Years

Field experience in general education classrooms—elementary level and secondary level.

Prerequisite: ED 205, ED 205E, ED 294**ED 395 Practicum in Multicultural Education (1-3)****Fall:** On Demand **Spring:** On Demand

Field work (e.g., classroom observations, teacher, student, and principal interviews, evaluation of curriculum materials, classroom assisting) and readings directed towards study of multicultural education. Study includes examination of oppression, dominant and subordinate group ideologies, and value systems to better understand appropriate teaching and learning in culturally and racially diverse classroom settings.

ED 398 Field Experience in Secondary Education (2)**Fall:** All Years **Spring:** All Years

This practicum course provides up to 60 hours of field work in the student's specific area of study. A seminar including an online unit on reading strategies will accompany this class. Students will take the course concurrently with or following a discipline-specific methods course in the major field of study.

Prerequisite: SPED 320, ED 205**ED 401 Managing and Monitoring Student Learning (2)****Fall:** On Demand **Spring:** On Demand

Using formal and informal assessment strategies to evaluate and ensure the continuous development of the learner. Applying teaching principles associated with high academic performance in students of all ages and grades.

ED 407 Independent Study in Education (1-3)**Fall:** On Demand **Spring:** On Demand

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 Human Relations for Educators (3)**Fall:** All Years **Spring:** All Years

Understanding of personal and institutional oppression, socially, historically, psychologically, and educationally, in our culture. Exploring the dynamics of power. Dealing with biases, myths, and stereotypes that affect the teaching/learning relationship and learning how to convey the experiences and contributions of groups within our diverse society.

ED 411 Technology for Teachers (1)**Fall:** On Demand **Spring:** On Demand

Educational technology for classroom teachers. Covers knowledge of office and web design software, national technology standards, online learning, technology-enhanced teaching, internet resources, internet ethics, and critical perspectives on technology. This course does not count toward the Teaching and Learning with Technology certificate or the Educational Leadership program.

ED 418 Sociology of Education (2)**Fall:** On Demand **Spring:** On Demand

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. Examination of inequality in education as it applies to specific ethnic groups and social classes will be considered. Same as SOC 418.

ED 419 Creating Web-Based Curriculum Materials (2)**Fall:** On Demand **Spring:** On Demand

This course will assist educators in the design and implementation of a classroom web site containing web-based lesson plans. It will also assist educators with web-based delivery methods and collaborative projects. Participants will create web-based classroom materials and collaborate with others via the Internet to extend the boundaries of the classroom.

ED 422 Electronic Resources: Issues and Practice (2)**Fall:** On Demand **Spring:** On Demand

This course covers many areas of the electronic research process, enhanced by the use and implications of emerging technology. There will be four main modules/sections: Internet Search Techniques, Evaluation and Selection of Internet Resources, Copyright Issues in Cyberspace, and Internet Privacy Issues.

ED 425 Methods of Computer-mediated Communication in Education (2)**Fall:** On Demand **Spring:** On Demand

This course provides an introduction to modern electronic communication tools, considers strategies and issues involved in incorporating them into education, and offers experience in using them.

ED 428 Effective Use of Multimedia (2)**Fall:** On Demand **Spring:** On Demand

This course covers how multimedia enhances instruction and learning. Participants will plan and implement multimedia for classroom instruction. They will also review the use of multimedia to create multisensory learning experiences.

Prerequisite: ED 419**ED 433 Technology Troubleshooting for your Computer (2)****Fall:** On Demand **Spring:** On Demand

This course will cover basic diagnosis and repair of common software related problems for the non-technical user. It will examine general diagnostic methods as well as specific failures in both Windows and Macintosh environments. With the increase of technology use in education, it is becoming necessary for education personnel to be able to do basic computer troubleshooting. This course will prepare instructors to work smoothly in a technical environment.

ED 435 Infusing Technology into Mathematics (2)**Fall:** On Demand **Spring:** On Demand

This course will examine and evaluate both commercial and free-software available for mathematics instruction. Students will design learning activities that foster equitable, ethical, and legal use of technology. **Prerequisite:** ED 419

ED 439 Infusing Technology into Literacy Instruction (2)**Fall:** On Demand **Spring:** On Demand

This course is designed to help K-12 teachers thoughtfully integrate technology into their literacy instruction. **Prerequisite:** ED 419

ED 442 Infusing Technology into the Science Curriculum (2)**Fall:** On Demand **Spring:** On Demand

This course will provide a guided exploration of the use of technology in the science classroom and as a tool for professional development in science teaching. Technology resources, tools and applications will be examined and evaluated. The course will address the design, delivery and assessment of lessons and student learning activities that integrate technology in the study and practice of science.

Prerequisite: ED 419

ED 443E Classroom Management/Consultation (3)**Fall:** All Years **Spring:** All Years

Understanding and development of skills necessary to create a positive learning environment, encourage appropriate social interactions, and advance engagement in learning. Secondary focus on the development of the professional consultation skills necessary to initiate and apply appropriate and effective teaming techniques across school and home environments. Applications for elementary and early childhood settings will be a focus.

Prerequisite: ED 205, ED 310, ED 294**ED 443S Classroom Management/Consultation (3)****Fall:** All Years **Spring:** All Years

Understanding and development of skills necessary to create a positive learning environment, encourage appropriate social interactions, and advance engagement in learning. Secondary focus on the development of the professional consultation skills necessary to initiate and apply appropriate and effective teaming techniques across school and home environments. Applications for K-12 settings will be a focus. **Prerequisite:** ED 205, ED 310, ED 294

ED 451 Middle School Philosophy (2)**Fall:** On Demand **Spring:** On Demand

This course is intended for those individuals preparing to become middle level school leaders and educators. It investigates the philosophical basis for middle level education and all phases of duties and responsibilities for educational leadership as they interact with the components of appropriate middle level education.

ED 452 Adolescent Development and Advisor/Advisee Programs (2)**Fall:** On Demand **Spring:** On Demand

The purpose of the course is to explore pre-adolescent development and the role adults play in the unique development of middle school students to build positive relationships through a team using planned advisory programs.

ED 453 Interdisciplinary Instructional Strategies (2)**Fall:** On Demand **Spring:** On Demand

The purpose of the course is to provide instruction in the design and preparation of interdisciplinary instructional units with appropriate instructional strategies for classroom use. The instructional units and strategies will be designed for use in grades 5-8 middle school classrooms using an interdisciplinary team approach to instruction.

ED 460S Student Teaching: Secondary (5)**Fall:** All Years **Spring:** All Years

Supervised student teaching experience in a secondary school (7-12). Applications due as per posted deadlines in Field Experiences Offices.

Prerequisite: ED 294, ED 398, SPED 320, ED 205, ED 310**ED 461S Student Teaching: Secondary (10)****Fall:** All Years **Spring:** All Years

Supervised student teaching experience in a secondary school (7-12). Applications due as per posted deadlines in Field Experiences Offices.

Prerequisite: ED 294, ED 398, SPED 320, ED 205, ED 310**ED 461V Student Teaching:Secondary/K-12 (1-16)****Fall:** All Years **Spring:** All Years

Supervised student teaching in a middle school or a secondary school (9-12). Applications due per posted deadlines in Field Experiences Office. Students must have completed the education core and all major coursework.

ED 462 Seminar in Secondary Education Student Teaching (1)**Fall:** All Years **Spring:** All Years

Analysis, evaluation, and reflection of teaching experience; assuming responsibility for establishing positive relationships with students, colleagues, and parents; making choices among competing and conflicting demands felt by teachers. This course must be taken concurrently with student teaching.

ED 465S Student Teaching (5-10)**Fall:** On Demand **Spring:** On Demand

Student teaching experience to qualify for additional licensure or supplemental student teaching experience. Advisor and consent of instructor required. **Prerequisite:** ED 460S, ED 461S, SPED 320

ED 469 Student Internship Program (2-10)**Fall:** On Demand **Spring:** On Demand

Opportunities for on-the-job experience. Appropriate for students with individualized majors.

ED 470 Educational Alternatives for Learning (1-2)**Fall:** On Demand **Spring:** On Demand

Construction of both established and innovative educational programs.

ED 471 Issues in Education (1-2)**Fall:** On Demand **Spring:** On Demand

Seminar to examine current issues and trends in specific areas of education.

ED 482 Information Technology for Teachers (2)**Fall:** On Demand **Spring:** On Demand

An introduction to information technology in education including the use of technology, computers, and multimedia in education with attention to traditional curriculum, pupil characteristics, and the use of technology in lesson development.

Prerequisite: CSIS 103**ED 490 Topics in Education (1-3)****Fall:** On Demand **Spring:** On Demand

This is an upper division topical course which may be repeated when the topic changes.

ED 494 Study Tour in Comparative and International Education (4)**Fall:** On Demand **Spring:** On Demand

Field study in selected countries through conferences with educators, schools, universities, ministry visitation and conferences. Open to non-majors.

ED 497 Readings in Education (1-2)**Fall:** On Demand **Spring:** On Demand

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

Elementary & Early Childhood Education**EECE 190 Topics in Elementary and Early Childhood Education (1-3)****Fall:** On Demand **Spring:** On Demand

This is a topics course and may be repeated as topics vary.

EECE 230 Child Development for Teachers (3)**Fall:** All Years **Spring:** All Years

Study of the growth and development of children with and without disabilities from conception to age twelve. Includes the relationship of development to learning and its implications for teaching.

EECE 234 Play and Development (3)**Fall:** All Years **Spring:** All Years

Importance of play on the development of children with and without disabilities, birth to age 8, along with developmentally appropriate strategies for guiding children's behavior. Prior or concurrent enrollment in EECE 230 is required.

Prerequisite: EECE 230**EECE 269 Field Experience: (1-3)****Fall:** On Demand **Spring:** On Demand

Opportunities to work with students and in selected settings.

EECE 280 Introduction to Early Childhood Education (2)**Fall:** All Years **Spring:** All Years

Overview of all aspects of programming for children ages birth to eight and their parents. Terminology, history, and major issues will also be covered.

EECE 290 Topics in Elementary and Early Childhood Education (1-3)**Fall:** On Demand **Spring:** On Demand

This is a topics course and may be repeated as topics vary.

EECE 291 Foundations of Literacy (3)**Fall:** All Years **Spring:** All Years

Early language acquisition, perception, and literacy development; and an introduction to and overview of the reading-learning process. Includes the impact of sociological and cultural factors on literacy.

Prerequisite: EECE 230**EECE 297 Independent Study in Education (1-3)****Fall:** On Demand **Spring:** On Demand

Extends study beyond regular course work at the sophomore level.

EECE 333 Discovery Learning (3)**Fall:** All Years **Spring:** All Years

Developmentally appropriate practices focusing on methods and materials in art, literature, music, math, science, and social/multicultural studies. Emphasis: focusing on constructivist approaches to hands-on discovery learning of children ages three to eight.

EECE 335 Parent-Child Relations in Contemporary Families (3)**Fall:** On Demand

A study of the impact of parenting on children's development. Includes family structures and functions, life stressors, and the role of culture in parenting. Includes methods and materials in parent education.

EECE 341 Reading and Language Arts I (3)**Fall:** All Years **Spring:** All Years

An integrative approach to learning and teaching the language arts in the elementary school. Emphasis on strategies for developing knowledge and skills through the use of literature from the content areas.

Prerequisite: EECE 291**EECE 342 Curriculum Foundations (3)****Fall:** On Demand **Spring:** On Demand

Foundations of K-12 curricula in language arts, science, and social studies. Designed for special education teaching majors. Concurrent with EECE 467P. **Prerequisite:** ED 205E, ED 294, ED 205

EECE 367J Intermediate Practicum/Elementary Teaching (1-4)

Fall: All Years **Spring:** All Years
 Observation of children in classroom setting; assisting classroom teacher and teaching selected lessons under supervision. Students should have taken Ed 205E. This course should be taken concurrently with the specialty area methods course.

Prerequisite: EECE 230, EECE 280, EECE 234

EECE 369 Field Experience: (1-3)

Fall: On Demand **Spring:** On Demand
 Opportunities to work with students and curriculum in selected settings.

EECE 375 Contemporary Methods in Early Childhood Literacy (2)

Spring: All Years
 This course will extend the knowledge of appropriate strategies for supporting the development of literacy in classrooms for children from ages 3 to 8 years. The issues surrounding best practices in literacy for young children will also be explored.

Prerequisite: EECE 230, EECE 291, EECE 341

EECE 388 Classroom Assessment (3)

Fall: All Years **Spring:** All Years
 This course provides an overview of the major types of assessment methods used by teachers to evaluate student performance and improve instruction. Specifically, the course will address the use and interpretation of portfolios, standardized tests, authentic assessment, alternative assessment, standards-based assessment and performance assessment. **Prerequisite:** ED 294, ED 205

EECE 397 Independent Study in Education (1-3)

Fall: On Demand **Spring:** On Demand
 Extends study beyond regular course work at junior level.

EECE 425 Improvement of Instruction in Reading and Language Arts (2)

Fall: On Demand **Spring:** On Demand
 Assist preservice and inservice teachers in identifying and practicing teacher skills and strategies needed to effectively utilize reading and successfully integrate the language arts modes in the classroom. Includes using reading as a tool to integrate language arts in the classroom with appropriate applications of assessment and cultural diversity. Prerequisite can be waived with consent of the instructor.

Prerequisite: EECE 291, EECE 341

EECE 430 Infant/Toddler Programs and Practices (3)

Fall: All Years
 An orientation to planning and implementing programs for children ages birth to three years and their families. Guidelines for supporting development and for providing quality care and education will be examined and applied in a field experience in an infant or toddler program. The practicum, EECE 467I (one credit) accompanies this course and must be taken concurrently.

Prerequisite: EECE 230, EECE 291

EECE 431 Child Study/Adaptations for Inclusion (3)

Fall: All Years
 Child Study and Adaptations for Inclusion takes an in-depth look at child study and informal assessment for planning, modifications, and adaptations for children with and without disabilities, who are ages birth through age eight in inclusive classrooms.

Rerequisite: EECE 230, EECE 291, SPED 320

EECE 433 Preschool and Kindergarten Curriculum (3)

Fall: All Years **Spring:** All Years
 This course will provide the student with the skills and knowledge necessary to plan and implement curriculum in programs serving pre-school and kindergarten children and their families. Students apply integrated curriculum planning and demonstrate advanced use of developmentally appropriate practices and strategies in either a pre-school or a kindergarten classroom. The practicum, EECE 467K (one credit) accompanies this course and must be taken concurrently. **Prerequisite:** EECE 333, EECE 230, EECE 280, EECE 234

EECE 435 Parent-Professional Relations (3)

Fall: All Years **Spring:** All Years
 Models of implementing home-school collaboration. Barriers, strategies, communication, consultation, and cross-cultural sensitivity are included.

EECE 436 Administration of Early Childhood Education Programs (3)

Fall: On Demand
 Focuses on the competencies entailed in administering both small and large-scale programs for children from birth to age 8. Concentrates on all facets of staffing, supervising, budgeting, and operating early childhood programs including an in-depth look at legal issues.

EECE 439 Infusing Technology into Literacy Instruction (2)

Fall: On Demand **Spring:** On Demand
This course is designed to help K-12 teachers thoughtfully integrate technology into their literacy instruction. **Prerequisite:** ED 419

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

Fall: All Years **Spring:** All Years
Close reading and study of children's literature—folktales, myth, hero tales, picture books, poetry, modern fantasy, biographies and realism. Emphasis on the nature of children's literature, literature from diverse cultures, criteria for selection, and strategies for reading/teaching literature as a content field in the elementary school. This course meets the upper-level writing requirement.

Prerequisite: EECE 341, SPED 320

EECE 445 Remedial and Corrective Reading (3)

Fall: On Demand **Spring:** On Demand
Presentation of special methods and materials in teaching reading to children performing below or above grade level with emphasis on age-appropriate strategies at the primary, intermediate and secondary level. Students are expected to have taken an introductory course in literacy or have the consent of the instructor.

EECE 446 Remedial and Corrective Reading Clinic (1)

Fall: On Demand **Spring:** On Demand
Supervised practice in remediating children with reading disabilities at the primary, intermediate and secondary levels. **Prerequisite:** SPED 445, EECE 445

EECE 448 Reading Study Skills in the Content Areas (3)

Fall: On Demand
Teaching techniques to improve reading ability in content materials; vocabulary, comprehension, study skills and providing for individual learning differences. Includes child development, assessment, cultural diversity issues, and technology. Required for ESL licensure. **Prerequisite:** SPED 320

EECE 449 Linguistics in Reading (3)

Spring: On Demand
Establishes a foundation of linguistic principles and language processing as basis for understanding reading as a communication process. Required for ESL licensure. Prerequisite can be waived with the consent of the instructor. **Prerequisite:** EECE 291

EECE 467F Practicum/Elementary Teaching (1-4)

Fall: All Years **Spring:** All Years
Observing children in a classroom setting, assisting classroom teacher, and teaching selected lessons under supervision. Taken concurrently with PFY. May include seminar. Can be repeated with permission of EECE chair.

EECE 467I Practicum: Infant and Toddler (1-4)

Fall: All Years **Spring:** All Years
Observing children in a classroom setting, assisting classroom teacher, and teaching selected lessons under supervision. May include seminar and may be repeated. This course requires concurrent enrollment in EECE 430.

EECE 467K Practicum: Pre-Primary (1-4)

Fall: All Years **Spring:** All Years
Observing children in a classroom setting, assisting classroom teachers, and teaching selected lessons under supervision. May include seminar and may be repeated. This course requires concurrent enrollment in EECE 433.

EECE 467P Curriculum Foundations Practicum (1-4)

Fall: All Years **Spring:** All Years
Designed for Special Education majors. Concurrent with EECE 342. Includes observations and teaching selected lessons under direction of teachers in K-6 and in 7-12 classrooms.

EECE 469 Internship (1-4)

Fall: All Years **Spring:** All Years
Opportunities to work with students and curriculum in selected settings.

EECE 469C Intern: Early Childhood (2)

Fall: On Demand **Spring:** On Demand
Administrative experience in early childhood programs. To be taken concurrently with EECE 436/536.

EECE 473 Practicum in Early Childhood Education (2-10)

Fall: On Demand **Spring:** On Demand
Supervised practicum experience with prekindergarten children. Analysis and evaluation of classroom procedures and development of young children.

EECE 474 Methods in Teaching Elementary Science and Environmental Education (3)**Fall:** All Years **Spring:** All Years

Content, philosophy, and organization of science and environmental education program; emphasizing integration across the curriculum and development of critical thinking, and methods of instruction and assessment. Enrollment in this course requires admittance to PFY.

EECE 475 Reading and Language Arts II (3)**Fall:** All Years **Spring:** All Years

An integrative approach to learning and teaching the language arts in the elementary school. Emphasis on the role of literature in planning, organizing, and assessing reading and writing instruction. Enrollment in this course requires admittance to PFY.

EECE 476 Methods in Teaching Elementary Social Studies (3)**Fall:** All Years **Spring:** All Years

Content, philosophy, and organization of social studies program; methods of instruction and curricular issues. Enrollment in this course requires admittance to PFY.

EECE 477 Early Childhood/Kindergarten Workshop (1-2)**Fall:** On Demand **Spring:** On Demand

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

EECE 478 Professional Teacher (3)**Fall:** On Demand **Spring:** On Demand

Focuses on the study of education and the rights and responsibilities of the individual teacher within the school setting. Course content includes objectives listed in the Minnesota Board of Teaching licensure requirements.

EECE 480E Student Teaching: Elementary (5)**Fall:** All Years **Spring:** All Years

Supervised student teaching experience at the elementary level for students receiving a K-12 license only. Enrollment in ED 460S (5 credits) is also required.

EECE 481C Student Teaching: Early Childhood (1-12)**Fall:** All Years **Spring:** All Years

Supervised student teaching experience in an elementary school and in an early childhood program. Students will teach at two levels, preschool through third grade.

EECE 481E Student Teaching: Elementary (10)**Fall:** All Years **Spring:** All Years

Supervised teaching experience in an elementary school. Students must be accepted into the Professional Fourth Year (PFY) program.

EECE 481V Student Teaching: Elementary/Early Childhood (1-16)**Fall:** On Demand **Spring:** On Demand

Supervised student teaching experience in an elementary school or early education center. Only students who are student teaching in the Student Teaching Abroad Program, or being hosted by MSUM via the Common Market Program, or other approved exchange program, should register for this course.

EECE 488 Contemporary Issues and Ethics in Early Childhood Education (2)**Spring:** All Years

A capstone course to be taken near the end of student's course work in early childhood and early childhood/special education. Includes the synthesis of major ideas in the field and encourages independent scholarship using library research, discussion, written and oral presentations, and advocacy skills. Students should not enroll in this class prior to their Senior year.

EECE 490 Topics in Elementary and Early Childhood Education (1-3)**Fall:** On Demand **Spring:** On Demand

This is a topics course and may be repeated as topics vary.

EECE 494 Educational Alternatives for Learning (1-2)**Fall:** On Demand **Spring:** On Demand

Construction of both established and innovative educational programs. May be repeated.

EECE 496 Issues in Education (1-2)**Fall:** On Demand **Spring:** On Demand

Seminar to examine current issues and trends in specific areas of education. May be repeated.

EECE 497 Readings in Education (1-2)**Fall:** On Demand **Spring:** On Demand

Extends study beyond regular course work.

EECE 499 Topical Workshop (1-3)**Fall:** On Demand **Spring:** On Demand

This topical course is taught in workshop format and may be repeated when the topic varies.

Engineering

ENG 113 Engineering Graphics/CAD (3)

Fall: All Years **Spring:** All Years

Principles and applications of graphical communication, analysis, and visualization. Content includes design techniques, sketching, geometric construction, pictorials, and multiview drawings. Computer-Aided Drawing (CAD) in both 2D and 3D modes emphasizing visualization encompass 50 percent of class assignments.

ENG 130 Introduction to Engineering (2)

Fall: All Years

Introduction to engineering fields, tools and methods for problem solving. Designed for students exploring career options in engineering.

ENG 200 Surveying (3)

Fall: All Years **Spring:** All Years

Introduction to plane surveying, including: use of transits, levels, and total stations; measurements by tape, electronic, and stadia methods; traverse and coordinate calculations, GPS overview, topographic and construction surveys, and U.S. Public Lands descriptions.

ENG 200H Surveying for Highways (1)

Spring: All Years

Continuation of ENG 200 with content specific to the design and construction of highways: earthwork area and volumes, vertical curves, and horizontal curves. Required for Civil Engineering students transferring to NDSU. Recommended for other Civil Engineering and Construction Management students considering careers in heavy highway. Corequisite: ENG 200

ENG 230 Manufacturing Processes (3)

Fall: All Years

A survey course including information on traditional and non-traditional manufacturing processes. Hands-on lab experiences in metal, wood, synthetics and welding processes.

ENG 243 Engineering Mechanics I - Statics (3)

Spring: All Years

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 261

ENG 244 Engineering Mechanics II - Dynamics (3)

Fall: All Years

Principles of kinematics, particle systems and plane rigid bodies, and vector calculus in solving problems.

Prerequisite: ENG 243

ENG 245 Engineering Mechanics III - Materials (3)

Spring: All Years

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)

Spring: On Demand

A study of methods, materials and techniques of inspection and testing of industrial materials and products; quality control.

ENG 394 Computer Applications for Engineers and Technologists (3)

Fall: All Years **Spring:** All Years

The stand alone and integrated application of computer software tools such as spreadsheets, word processors, database management systems, graphics and other productivity software, to problem solving contexts specific to the disciplines of Engineering and Technology.

English

Beginning Fall 2006, ENGL 200 Introduction to Literary Theory, will be a prerequisite to all English core courses.

ENGL 101 [A/1B] English Composition I (3)

Fall: All Years **Spring:** All Years

English Composition I is the foundational writing course; special attention is devoted to learning about and using effective writing processes to create logical, engaging, and grammatically and mechanically correct essays suitable for a variety of audiences and purposes. In addition, students will read, analyze, evaluate, synthesize, and integrate appropriately and ethically information and ideas from diverse sources and points of view in their writing.

ENGL 102 [A] Composition and Literature II (4)**Fall:** All Years **Spring:** All Years

The First-Year Composition and Literature II course stresses expository writing (essays that explain, describe, compare, interpret, analyze, and persuade). In this course students will be asked to read and write with thoughtfulness, skill, and honesty, to think critically, to develop and defend their assertions, and to make use of library and other research sources that require crediting the writing of others in a responsible manner. Students will also read numerous works of poetry and drama and other genres.

Prerequisite: ENGL 101**ENGL 104 [A] Freshman Composition and Literature (1-2)****Fall:** On Demand **Spring:** On Demand

This course is designed for transfer students, or for returning MSUM students who, because of curricular conversion, do not have sufficient credits in Freshman English Composition. The course will be tailored to meet the genre or element that is missing (poetry, drama, novel, research paper, etc.). Permission to enroll in this class must be obtained from the Chairperson of the English Department or the Freshman Composition coordinator.

ENGL 105 [1B] Honors English: Ideas, Reason and Exploration (3)**Fall:** All Years **Spring:** All Years

This course is for students admitted to the Honors Program. This accelerated course is designed to develop writing skills. This course is also designed to fulfill the Written Communication Competencies and Student Learning Outcomes of the Inner Core.

ENGL 111 [A/1B] Composition for Non-Native Speakers (3)**Fall:** All Years

This course serves as the introduction to college writing and focuses on developing reading and writing skills for non-native speakers. The writing environment of English 111 is designed to help promote writing as a process involving several stages that range from proposing a substantial thesis to a final, polished and proofread revision and good paper. English 111 will help students develop effective writing habits. Some attention will be given to English idioms, grammar and stylistics as well as developing rhetorical strategies and competencies.

ENGL 112 [A] Composition and Literature for Non-Native Speakers II (4)**Spring:** All Years

The First-Year International Composition and Literature II course stresses expository writing (essays that explain, describe, compare, interpret, analyze and persuade). In this course, students will be asked to read poetry, drama, and essays and respond critically and thoughtfully as they develop and defend their assertions. Library instruction on research and documentation. Students will also discuss questions of English grammar, usage, and idiomatic situations. This course fulfills the English 102 requirement.

Prerequisite: ENGL 111**ENGL 159 [2] Cultural Perspectives in Literature (3)****Fall:** All Years **Spring:** All Years

This course will increase both student's critical thinking skills and cultural awareness through literature. Students will learn and practice the methods of argument, as they analyze works of literature from different cultures and different perspectives. Students will analyze the positions that writers and speakers take on different issues, and learn essential writing skills.

ENGL 163 [2] Who Is a Hero? (3)**Fall:** On Demand **Spring:** On Demand

This course is an introduction to and exploration of literature written by authors who write from a culturally diverse perspective. Students will be asked to analyze, interpret, and compare how the concept of hero is played out within each cultural context.

ENGL 183 [6] Introduction to the American Short Story (3)**Fall:** All Years **Spring:** All Years

This course introduces students to the American Short Story from the 19th Century to the present. In this course students will have the opportunity to cultivate an appreciation for American literature, and develop the skills of close reading and analysis of selected works.

ENGL 190 Special Topics: Freshman Composition (2-3)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

ENGL 200 Introduction to Literary Studies (3)**Fall:** All Years **Spring:** All Years

This course introduces students to the basic elements of literary study, including literary analysis, critical interpretation, and theoretical approaches. Students will study a variety of genres and styles from diverse cultural and historical perspectives. Students will also read exemplary pieces of criticism designed to demonstrate the fundamental tenets of a critical approach. Required of all English majors as a prerequisite for all core and major courses beginning Fall 2006. **Prerequisite:** Inner Core requirements

ENGL 201 English Composition II (3)**Fall:** All Years **Spring:** All Years

This course focuses on analysis and argumentation, with special attention devoted to learning about and producing effective and persuasive academic essays. Many assignments in this course will involve research and thus will require ethical and correct source citation and documentation. **Prerequisite:** ENGL 101 or performance on diagnostic exam.

Prerequisite: ENGL 101**ENGL 211 [D1] Major British Writers I (4)****Fall:** All Years

Selected major writers through Milton. Some attention to literary criticism and research techniques.

Prerequisite: ENGL 200**ENGL 212 [D1] Major British Writers II (4)****Spring:** All Years

Selected major writers, Enlightenment through Romantics, Victorians and Moderns. Some attention to literary criticism and research techniques.

Prerequisite: ENGL 200**ENGL 214 [D1] Introduction to Shakespeare (3)****Fall:** On Demand **Spring:** On Demand

A study of representative plays and poems.

Prerequisite: ENGL 101, ENGL 102**ENGL 230 Individual Authors (3)****Fall:** On Demand **Spring:** On Demand

Study of one or two major or influential authors.

Prerequisite: ENGL 101, ENGL 102**ENGL 234 [D1] Mythology (3)****Fall:** On Demand **Spring:** On Demand

Introduction to the great myths of Greece and Rome and their influence upon later literature.

Prerequisite: ENGL 101, ENGL 102**ENGL 240 [D] Masterworks (3)****Fall:** On Demand **Spring:** On Demand

Extensive reading in a particular literary genre—novel, drama, or poetry.

Prerequisite: ENGL 101, ENGL 102**ENGL 241 [D] Modern American Literature (3)****Fall:** On Demand **Spring:** On Demand

Selected major figures of 20th-century American Literature. **Prerequisite:** ENGL 101, ENGL 102

ENGL 246 [D1] Women in Literature (3)**Fall:** On Demand **Spring:** On Demand

A study of the various ways women are depicted in imaginative literature and expository prose. Readings vary. **Prerequisite:** ENGL 101, ENGL 102

ENGL 248 [F1] Introduction to American Ethnic Literature (3)**Fall:** On Demand **Spring:** On Demand

Significant writers and selected works representing several minority ethnic backgrounds, including African, Asian, Hispanic, and Native American. Repeatable if content changes.

Prerequisite: ENGL 101, ENGL 102**ENGL 280 [F] World Literature: East and West (3)****Fall:** All Years **Spring:** On Demand

Selected writers or literary traditions in world literature with at least one-half of the course focusing on the non-western literature.

Prerequisite: ENGL 101, ENGL 102**ENGL 281 [D] World Literature (3)****Fall:** On Demand **Spring:** On Demand

Selected writers or literary traditions in Western world literature. May include Bible as literature.

Prerequisite: ENGL 101, ENGL 102**ENGL 282 [D] Literature for Non-Majors (3)****Fall:** All Years **Spring:** All Years

This course is designed to introduce students to significant English, American, and World literatures from a variety of periods, cultures, and literary or critical traditions. The course will introduce students to the process of situating works within larger cultural, historical, and/or biographical contexts. Students will also receive instruction in the process of critical and interpretive reading and writing.

Prerequisite: ENGL 101 or ENGL 102

ENGL 285 [E] Scriptwriting (4)**Fall:** On Demand **Spring:** On Demand

An introductory workshop in writing scripts for the stage and the screen. Students will be expected to write a short play and a mini-screenplay of 15-20 pages. Scripts will be work-shopped in class.

Prerequisite: ENGL 101, ENGL 102**ENGL 286 [E] Practical Writing (3)****Fall:** On Demand **Spring:** On Demand

Study and practice in writing non-academic material linked to the experiences of daily life and to practical career situations.

Prerequisite: ENGL 101, ENGL 102**ENGL 288 [E] Introduction to Creative Writing (3)****Fall:** On Demand **Spring:** On Demand

Practice in the writing of poetry, short fiction, or drama. **Prerequisite:** ENGL 101, ENGL 102

ENGL 290 Topics in English (1-4)**Fall:** On Demand **Spring:** On Demand

Study of a particular literary topic: special approaches or procedures related to the study of language or literature. The course may be repeated when the topic changes. **Prerequisite:** ENGL 101, ENGL 102

ENGL 301 [D1] Medieval British Literature (3)**Fall:** On Demand **Spring:** On Demand

Study of selected major authors and works, sometimes in comparison with European counterparts, exclusive of Chaucer.

Prerequisite: ENGL 101, ENGL 102**ENGL 302 [D1] English Renaissance Literature (3)****Fall:** On Demand **Spring:** On Demand

Study of English Renaissance authors, themes, and genres from 1485 through 1649.

Prerequisite: ENGL 101, ENGL 102**ENGL 303 [D1] Literature of the English Enlightenment (3)****Fall:** On Demand **Spring:** On Demand

Study of English authors, genres, and themes from the English Restoration to the end of the eighteenth century. **Prerequisite:** ENGL 101, ENGL 102

ENGL 305 [D1] The Romantic Period (3)**Fall:** On Demand **Spring:** On Demand

Study of British authors, genres, or literary movements from roughly the 1780s through 1830. Some considerations of social and cultural context will be included in this study.

Prerequisite: ENGL 101, ENGL 102**ENGL 306 [D1] The Victorian Period (3)****Fall:** On Demand **Spring:** On Demand

Study of British authors, genres, or literary movements from roughly the 1830s through 1900. Some consideration of social and cultural context will be included in this study.

Prerequisite: ENGL 101, ENGL 102**ENGL 307 [D1] 20th-Century British Literature (3)****Fall:** On Demand **Spring:** On Demand

Study of selected major British authors from the 1890s to the present.

Prerequisite: ENGL 101, ENGL 102**ENGL 309 [D] Studies in American Literature (3)****Fall:** On Demand **Spring:** On Demand

Study of selected subjects, movements, or genres.

Prerequisite: ENGL 101, ENGL 102**ENGL 314 [D1] Topics in Shakespeare (3)****Fall:** All Years **Spring:** All Years

A close examination of Shakespeare's major works, usually divided into tragedy and comedy. Video sessions and "genre" readings generally incorporated. May not be repeated for liberal studies credits. Majors may repeat this topical course once when content varies. **Prerequisite:** ENGL 200

ENGL 314T Shakespeare: Theory (1)**Fall:** All Years **Spring:** All Years

Readings in tragedy or comedy theory in conjunction with the study of Shakespeare's plays. Concurrent enrollment in ENGL 314 is required.

Prerequisite: ENGL 200**ENGL 321 [D1] Early American Literature (3)****Fall:** On Demand **Spring:** On Demand

Early-American Literature. Study of authors, genres, or literary movements from the beginnings-1830. Subjects and focus will vary as materials address literature from the moment of Anglo-European-Indigenous contact to the constituting of the New Republic. **Prerequisite:** ENGL 101, ENGL 102

ENGL 322 [D1] 19th-Century American Literature (3)**Fall:** On Demand **Spring:** On Demand

Studies of authors, genres, or literary movements in nineteenth-century America. Subjects and focus will vary as materials address the literature of nineteenth-century America.

Prerequisite: ENGL 101, ENGL 102

ENGL 323 [D1] 20th-21st Century American Literature (3)

Fall: On Demand **Spring:** On Demand
Study of authors, genres, or literary movements from 1900-present. **Prerequisite:** ENGL 101, ENGL 102

ENGL 330 Individual Authors (2-3)

Fall: On Demand **Spring:** On Demand
Intensive study of one or two significant authors. **Prerequisite:** ENGL 101, ENGL 102

ENGL 332 Film and the Novel (3)

Fall: On Demand **Spring:** On Demand
Comparative analysis of major novels and their screen adaptations. Focus on aesthetic and interpretative similarities and differences. **Prerequisite:** ENGL 101, ENGL 102

ENGL 340 Genre Studies (3)

Fall: On Demand **Spring:** On Demand
Extensive reading in a particular literary genre—short story, novel, poetry, drama, or epic. **Prerequisite:** ENGL 101, ENGL 102

ENGL 343 [D1] Drama II (3)

Fall: All Years
Representative readings in dramatic literature from Greek theatre to the present day. Greek and Roman tragic and comic playwrights, Aristotelian criticism, and classical theatre history. Early native farce, religious drama, and the drama and theatrical innovations of the Renaissance through the 18th century. Same as THTR 322. **Prerequisite:** ENGL 101, ENGL 102

ENGL 344 [D1] Drama III (3)

Spring: All Years
Representative readings in dramatic literature from Greek theatre to the present day. The drama of the modern era, beginning with the 19th century Romantics, viewed as a revolutionary, cultural, political and artistic force. Same as THTR 323. **Prerequisite:** ENGL 101, ENGL 102

ENGL 350 Literary Criticism and Theory (3)

Fall: On Demand **Spring:** On Demand
Practice in critical evaluation of literary works and an introduction to literary theory. **Prerequisite:** ENGL 101, ENGL 102

ENGL 352 [F1] Native American Literature (3)

Fall: All Years **Spring:** All Years
This course is an introduction to and an exploration of literature written by Native Americans. Texts read in this course are produced by writers of Native American descent. Course presents core texts (fiction, essays, poetry, drama) in the development of literary history of western Indian writers with an emphasis on contemporary literature. **Prerequisite:** ENGL 101, ENGL 102

ENGL 354 Non Fiction Writing (3)

Fall: On Demand **Spring:** On Demand
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. **Prerequisite:** ENGL 101, ENGL 102

ENGL 356 [F1] African American Literature (3)

Fall: Even Years **Spring:** Even Years
The focus of the course is the African-American literary tradition. This survey course covers African-American writing from slave narratives to the present. Because of the historical sweep of the course, students will read broadly, rather than intensively—with any one writer. Students will also be instructed in the historical background for the writings. **Prerequisite:** ENGL 102, ENGL 101

ENGL 361 Introduction to Descriptive Linguistics (3)

Fall: On Demand **Spring:** On Demand
A broad survey of the field of descriptive linguistics. **Prerequisite:** ENGL 101, ENGL 102

ENGL 365 Language and Learning (3)

Fall: All Years
An interdisciplinary approach to theories of language development, and language as a mode of learning. **Prerequisite:** ENGL 101, ENGL 102

ENGL 371 [D1] Survey of American Literature I (4)

Fall: All Years
Historical and critical study of authors, genres, and literary movements from early American writings through American Romanticism. Authors may include William Bradford, John Winthrop, Anne Bradstreet, Benjamin Franklin, Phillis Wheatley, Washington Irving, James Fenimore Cooper, Ralph Waldo Emerson, Margaret Fuller, Nathaniel Hawthorne, Henry David Thoreau, Herman Melville, Edgar Allan Poe, Frederick Douglass, Harriet Beecher Stowe, Walt Whitman, and Emily Dickinson. **Prerequisite:** ENGL 200

ENGL 372 [D1] Survey of American Literature II (4)**Spring:** All Years

Historical and critical study of authors, genres, and literary movements from 19th Century American Realism, Naturalism, Modernism, Post-Modernism to the present. Authors may include Henry James, Kate Chopin, Theodore Dreiser, Edith Wharton, Robert Frost, T.S. Eliot, William Carlos Williams, Wallace Stevens, Willa Cather, Ernest Hemingway, F. Scott Fitzgerald, William Faulkner, W.E.B. DuBois, Langston Hughes, Zora Neale Hurston, Ralph Ellison, Audust Wilson, Toni Morrison, Maxine Hong Kingston, and Louise Erdrich.

Prerequisite: ENGL 200**ENGL 380 [F] World Literature (3)****Fall:** On Demand **Spring:** On Demand

Study of selected world masterpieces grouped by theme or genre. **Prerequisite:** ENGL 101, ENGL 102

ENGL 387 [E] Technical Report Writing (4)**Fall:** On Demand **Spring:** On Demand

Expository writing dealing with subjects in student's major and planned for a specialized audience: documenting, writing abstracts, preparing reports of original investigations. Recommended for students who have taken classes in their major.

Prerequisite: ENGL 101, ENGL 102**ENGL 388 Creative Writing (3)****Fall:** On Demand **Spring:** On Demand

The writing of poetry, short fiction, plays, or film. Partly a dialogue on contemporary writing, but mainly workshop. **Prerequisite:** ENGL 288

ENGL 390 Special Topics (1-4)**Fall:** On Demand **Spring:** On Demand

Study of a particular literary genre, topic, or theme.

Prerequisite: ENGL 101, ENGL 102**ENGL 394 Advanced Composition (3)****Spring:** All Years

Principles of clear and effective writing, elements of the writing process, research and methods in teaching, responding to, and evaluating writing.

Prerequisite: ENGL 101, ENGL 102**ENGL 395 Theory and Methods of Tutoring (3)****Spring:** All Years

Presentation and discussion of theories and methods for conference teaching and the writing process. Writing and responding to writing to facilitate thinking about the course content. Observing and conducting tutorial sessions to gain hands-on experience in tutoring/teaching. This course is a prerequisite for students who wish to work as tutors in The Write Site. It's a relevant course for any prospective secondary English teachers.

Prerequisite: ENGL 101, ENGL 102**ENGL 402 Introduction to Publishing (3)****Fall:** On Demand **Spring:** On Demand

This course familiarizes students with small press publishing and with the various facets of the writing, publication and marketing processes. It also includes an orientation to New Rivers Press, a working non-profit press located at MSUM, and a daylong field trip to various publishing facilities in the Minneapolis-St. Paul area.

ENGL 409 Studies in American Literature (3)**Fall:** On Demand **Spring:** On Demand

Study of selected topics, movements, or genres.

Prerequisite: ENGL 101, ENGL 102**ENGL 410 Studies in British Literature (3)****Fall:** On Demand **Spring:** On Demand

Study of selected topics, movements, or genres.

Prerequisite: ENGL 101, ENGL 102**ENGL 411 [D1] Chaucer (3)****Fall:** On Demand **Spring:** On Demand

Study of selected major works and their background.

Prerequisite: ENGL 101, ENGL 102**ENGL 412 [D1] Spenser (3)****Fall:** On Demand **Spring:** On Demand

Study of selected major works and their background.

Prerequisite: ENGL 101, ENGL 102**ENGL 416 [D1] Milton (3)****Fall:** On Demand **Spring:** On Demand

Study of selected major works and their background.

Prerequisite: ENGL 101, ENGL 102**ENGL 430 Individual Authors (3)****Fall:** On Demand **Spring:** On Demand

Intensive study of one or two significant authors.

Prerequisite: ENGL 101, ENGL 102

ENGL 450 Critical Traditions (3)**Fall:** On Demand **Spring:** On Demand

Principal works of literary aesthetics and criticism from selected periods in history.

Prerequisite: ENGL 101, ENGL 102**ENGL 463 [E] History of the English Language (3)****Fall:** On Demand **Spring:** On Demand

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.

Prerequisite: ENGL 101, ENGL 102**ENGL 469 Internship—Writing (1-12)****Fall:** On Demand **Spring:** On Demand

Supervised employment requiring substantial writing practice in government or private agency. Repeatable up to a total of 12 credits. All credits apply toward graduation, but only three may count toward a major or writing minor in English. Six credits accepted toward the B.A., Writing Emphasis.

ENGL 472 Introduction to Sociolinguistics (3)**Spring:** All Years

A survey of language variation and use in society, with particular reference to English.

Prerequisite: ENGL 361**ENGL 478 Foundations of Teaching and Learning English as a Second Language (3)****Fall:** All Years

Survey of the field of second language acquisition. Examination of factors that affect second language learning, combined with consideration of how these factors are addressed in a classroom setting.

ENGL 479 Methods for Teaching ESL and Bilingual Learners (4)**Spring:** All YearsCurrent practices in teaching ESL and bilingual learners. Examination of individual skill areas as well as how skills are integrated. **Prerequisite:** ENGL 478**ENGL 480 Advanced World Literature (3)****Fall:** On Demand **Spring:** On Demand

Intensive study of selected world masterpieces from one language, in translation.

Prerequisite: ENGL 101, ENGL 102**ENGL 485 Topics: Authors (1-2)****Fall:** On Demand **Spring:** On DemandStudy of selected authors. May be repeated when topic changes. **Prerequisite:** ENGL 102, ENGL 101**ENGL 487 Advanced Technical Report Writing (4)****Fall:** On Demand **Spring:** On Demand

Process-oriented writing class that emphasizes theoretical aspects of audience analysis, principles of document organization and design, and technical editing. Students will also learn how to design effective document supplements and visuals. Students will also learn about and use various research techniques. Course is conducted through lectures, group and individual discussions, collaborative writing, and hands-on work in the library and computer labs. ENGL 487 culminates in a professional website and an online portfolio.

Prerequisite: ENGL 387**ENGL 488 Advanced Creative Writing (1-4)****Fall:** On Demand **Spring:** On Demand

Advanced work in writing of poetry, short fiction, plays or film offered once a year in Spring as a Capstone course choice for Writing Majors. Students may repeat course once when genre changes.

Prerequisite: ENGL 388**ENGL 490 Special Topics (1-4)****Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic changes.

ENGL 491 Methods of Teaching English (4)**Spring:** All Years

Current practices and trends in teaching and assessing communication arts/literature in grades 9-12.

Prerequisite: ENGL 101, ENGL 102**ENGL 493 Grammars of English (3)****Spring:** All Years

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.

Prerequisite: ENGL 101, ENGL 102**ENGL 494 Teaching English in Middle/Junior High (3)****Fall:** All YearsReview of current trends in communication arts/literature education in middle school and junior high (grades 5-9). The course teaches approaches and techniques for teaching and assessing literacy and examining adolescent/young adult literature and media. **Prerequisite:** ENGL 101, ENGL 102

ENGL 495 Advanced Study in Language or Literature (1-3)

Fall: On Demand **Spring:** On Demand
 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 a adjunct to another class taught by the same instructor. Repeatable when subject matter varies.
Prerequisite: ENGL 101, ENGL 102

ENGL 496 Literature Capstone Seminar (4)

Fall: All Years **Spring:** All Years
 Study of selected topics, individual authors, genres or movements in American, British or World literature. Required for BA literature majors and open to BA Writing majors and BS English majors. The course is offered once per semester. It includes multiple approaches to analyzing literature and a documented research paper of substantial length with an extensive annotated bibliography. The capstone serves as a culminating course for academic study in English. Students are encouraged to take the capstone in their senior year.

ENGL 497 Tutorial (1-3)

Fall: On Demand **Spring:** On Demand
 The consideration of various problems in literature or language agreed upon by the instructor and the student.

Eurospring**EXCH 350 [D1] Eurospring Preparatory Course (2)**

Spring: All Years
 Preparatory course for Eurospring semester in England.

EXCH 351 [D1] Main Lecture Topic (4)

Spring: All Years
 The Main Lecture of Eurospring will be focused on a specific period in Western intellectual history such as The Renaissance, or Revolution to The Enlightenment, or The Enlightenment to The Industrial Age.

EXCH 352 [D1] A Topical Course in Theatre Literature (1)

Spring: All Years
 This course covers various periods in theatre literature.

EXCH 354 [D1] A Topical Course in Art and Architecture (1)

Spring: All Years
 A topical course which covers various periods in art and architecture history.

EXCH 355 [C] A Topical Course in Politics, Power, and the Law (1)

Spring: All Years
 A topical course which covers various periods of the exercise in politics, power, and law.

EXCH 356 [B] A Topical Course in Science and Discovery (1)

Spring: All Years
 A topical course which covers various periods in science and discovery.

EXCH 357 [D1] A Topical Course in Music (1)

Spring: All Years
 A topical course which covers various periods in the history of music.

EXCH 358 [D1] A Topical Course in Women's Studies (1)

Spring: All Years
 A topical course which covers various periods in women's history.

EXCH 359 [D1] European Grand Tour (4)

Spring: All Years
 This course is a 21 day coach tour which visits centers of Western civilization including Paris, Florence, Rome, Venice, Salzburg, Berlin, and Amsterdam. Guided tours are planned and students are expected to visit at least one museum per city on their own.

Film Studies**FILM 101A Practicum (1)**

Fall: All Years **Spring:** All Years
 Practical experience in a performance activity in Film.

FILM 101B Practicum (1)

Fall: All Years **Spring:** All Years
 Practical experience in a performance activity in Film.

FILM 101C Practicum (1)

Fall: All Years **Spring:** All Years
 Practical experience in a performance activity in Film.

FILM 101D Practicum (1)

Fall: All Years **Spring:** All Years
 Practical experience in a performance activity in Film.

FILM 102 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Film.

FILM 162 Film Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in film activities.

FILM 180 [6] Understanding Movies (3)

Fall: All Years **Spring:** All Years
This liberal studies film course is designed to introduce students to the vocabulary and artistic elements of cinema. It will focus on creating an understanding and appreciation for the basics of cinematography, film sound, acting, screenwriting, directing, and narrative frameworks utilized to create film. Historical and contemporary films will be viewed as text material for analysis.

FILM 190 Topics in Film (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division topics course and may be repeated when the topic changes.

FILM 202 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Film.

FILM 270 Introduction to Telecommunications and Film (3)

Fall: All 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.

FILM 272 Video Production (3)

Fall: All Years **Spring:** All Years
Theory of and practical experience with television equipment in studio and remote productions.

FILM 280 [D1] History of Film (3)

Fall: All Years
A chronological approach to the artistic and technical development of the American motion picture medium. Influential films are viewed and discussed.

FILM 281 [D] Film Appreciation (3)

Spring: All Years
A critical approach to artistically significant motion pictures, motion picture directors, and genres. Analysis of film content, structure, and directorial technique is presented through screenings and discussion.

FILM 283 Film and the Stage (3)

Fall: On Demand **Spring:** 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.

FILM 284 Beginning Filmmaking (3)

Fall: All Years **Spring:** All Years
Theory and practice for the pre-professional filmmaker. Students learn to operate basic motion picture equipment. Projects include planning, shooting, and editing short films.

FILM 290 Topics in Film (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division topical course and may be repeated when the topic changes.

FILM 302 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Film.

FILM 382 Film and the Novel (3)

Spring: Odd Years
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.

FILM 384 Techniques of Film Directing (3)

Fall: On Demand **Spring:** 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: FILM 280, FILM 281

FILM 385 [D] International Cinema (3)

Spring: Odd Years
A study of major world cinemas, including influential filmmakers, screen personalities, and motion pictures. Important films are screened, discussed, and critically evaluated.

FILM 386 Genre Studies (3)

Fall: On Demand **Spring:** On Demand
Intensive study of a particular film genre. Analysis and discussion of specific generic conventions, historical shifts within the genre, and theoretical foundations. Potential course topics include: Science Fiction, American Screen Comedy, Film Noir, Horror Film, Westerns, Animation, etc. May be repeated when genre studied is different.
Prerequisite: FILM 280

FILM 387 Director Studies (3)

Fall: On Demand **Spring:** On Demand
 Study of the work of selected film directors. The course will analyze and evaluate a director's dominant themes, creative content, historical context and cinematic style. This course may stress the work of a single director or compare elements of two or more directors. Potential course topics include: Alfred Hitchcock, John Ford, Frank Capra, Howard Hawks, Steven Spielberg, Woody Allen, etc. May be repeated when the film director studied is different.
Prerequisite: FILM 280

FILM 388 Topical Studies (3)

Fall: On Demand **Spring:** On Demand
 In-depth study of specialized forms of film, historical periods, Hollywood studios and other topical areas of film study. Potential course topics include: Films of the 40's, American Silent Film, Exploring Films: Elements of Great Movies, Cult Films, Women in Film, etc. May be repeated when the topic changes.
Prerequisite: FILM 280

FILM 390 Topics in Film (1-3)

Fall: On Demand **Spring:** On Demand
 This is an upper division topical course and may be repeated when the topic changes.

FILM 402 Practicum (1)

Fall: All Years
 Practical experience in a performance activity in Film. Film 402 must be taken during the semester immediately preceding registration for Film 496.

FILM 416 Special Projects in Film (1-3)

Fall: On Demand **Spring:** 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.

FILM 469 Internship (3-12)

Fall: On Demand **Spring:** On Demand
 Offered on demand.

FILM 472 Advanced Video Production (3)

Spring: On Demand
 Produce a series of programs to be aired. Includes all levels from writing and casting through taping and post-production effects.

FILM 480 Film Theory and Criticism (3)

Fall: All Years
 Film Theory and Criticism prepares students to "read" films with a greater understanding of the major issues and debates in film criticism of the last 70 years. The course introduces students to classical and modern film theory. Heavy emphasis is placed on analytical writing about film.
Prerequisite: FILM 280, FILM 281

FILM 484 Sixteen Millimeter Film Production (3)

Fall: All Years
 Film Production is an advanced production course that provides an introduction to and foundation in techniques of 16mm filmmaking. In addition to this technical training, the course emphasizes the development of sophisticated creative methods in the areas of visual style and storytelling. Through reading, lectures, screenings, and individual and group film projects, students will gain a solid understanding of technical concepts related to 16mm filmmaking and will begin to develop sophistication as filmmakers. This course will place special emphasis on the qualities of cinematography and lighting. **Prerequisite:** FILM 384

FILM 485 Advanced Film Production (3)

Fall: All Years
 Pre-production planning and production of short 16mm films. Special area of focus on the post-production process and advanced cinematic editing technique. **Prerequisite:** FILM 484

FILM 490 Topics in Film (1-3)

Fall: On Demand **Spring:** On Demand
 This is an upper division topical course and may be repeated when the topic changes.

FILM 496 Senior Seminar (3)

Spring: All Years
 Capstone course for Film Studies majors; proposal, completion, and presentation of projects; pre-professional skills; written exam integrating and applying knowledge from separate courses. Grade of "C-" or higher is required for graduation.
Prerequisite: FILM 402

Finance

FINC 240 Personal Financial Planning (3)**Fall:** All Years **Spring:** All Years

This course emphasizes the importance of personal financial management. This course will explore issues in individual financial planning and budgeting, management of money, and protection against losses. This course also introduces the student to principles of investments, and risk and return characteristics of several investment alternatives. This course cannot be used to satisfy major or minor requirements in any area of business.

FINC 325 Financial Institutions and Markets (3)**Fall:** All Years **Spring:** All Years

In this course, students are introduced to principles of managing and understanding the behavior of financial institutions—banks, credit unions, insurance companies, pension funds, and other financial service firms. Students are provided with the concepts, management tools, and institutional information essential for a basic knowledge of these financial institutions.

FINC 340 Financial Management (3)**Fall:** All Years **Spring:** All Years

Students are introduced to the principles of finance. Basic issues of business finance including investment, financing and dividend policies are explored. Students learn about the functioning and regulations of financial markets. Students must have Junior standing. **Prerequisite:** ACCT 231, MATH 234

FINC 352 Principles of Insurance and Risk Management (3)**Fall:** On Demand **Spring:** On Demand

This course provides a study of the basic concepts of business and personal risks from the standpoint of creation, identification, reduction, elimination, and evaluation of risks. The use of insurance in meeting problems of risk is also covered in this course.

Prerequisite: FINC 340**FINC 354 Real Estate Finance and Investments (3)****Fall:** On Demand **Spring:** On Demand

This course is a study of valuation, financial analysis, and investment analysis of real estate. Real estate development and financing sources are examined. Federal income taxes as they affect real estate investment are also considered.

Prerequisite: FINC 340**FINC 360 Principles of Investment (3)****Fall:** All Years **Spring:** All Years

This course provides a basic understanding of the functioning of securities markets, individual investment alternatives, issues involved in investment theory and practice, and investment analysis and valuation. Emphasis is placed on the understanding of the background terminology and risk/return characteristics of different investment opportunities.

Prerequisite: FINC 340**FINC 406 Small Business Management Consulting (1-2)****Fall:** All Years **Spring:** All Years

Practicum in providing management assistance to small businesses. May be retaken for a total of 3 credits. Students must have Senior standing.

FINC 425 Bank Management (3)**Spring:** All Years

This course applies traditional finance concepts to the management of commercial banks. It emphasizes decision making and specific problem-solving techniques. The course provides a basic understanding of the issues confronting bank managers today, fundamental financial models, and the risk/return impacts of various credit, investment, operational, and funding decisions. **Prerequisite:** FINC 340, FINC 325

FINC 441 Advanced Financial Management (3)**Fall:** All Years

This course provides knowledge of advanced issues in financial management. Current issues in financial management are explored. **Prerequisite:** FINC 340

FINC 445 International Financial Management (3)**Spring:** All Years

Issues involved in the financial management of a multinational firm are considered. This course evaluates the problems a multinational firm faces and how they can be addressed. Topics concerning the functioning of global financial markets, factors that influence exchange rates, and the ways investment decisions are made are explored.

Prerequisite: FINC 340

FINC 446 Financial Decision Making (3)**Fall:** On Demand **Spring:** On Demand

This course moves away from textbooks to learning the skills and issues involved in the financial management of a corporation through academic and professional articles. Several important concepts of financial management are applied to real-life situations through the use of case problems. These cases provide insights into some of the problems a firm faces and how they can be addressed.

Prerequisite: FINC 441**FINC 460 Portfolio Analysis and Management (3)****Fall:** On Demand **Spring:** On Demand

This course involves analysis of techniques used in combining securities into portfolios. Students will examine various classes of securities and investments meeting a proper balance for investor needs.

Prerequisite: FINC 360**FINC 463 Futures and Options (3)****Fall:** On Demand **Spring:** On Demand

Advanced study of the pricing and use of derivative market instruments, current topics and issues.

Prerequisite: FINC 360**FINC 466 Advanced Personal Finance (3)****Fall:** Even Years

This course reviews the fundamental principles of personal financial management and provides the student with the tools needed to develop a sound personal financial plan. Topics include analysis of consumer loans, mortgage options, insurance, stocks, bonds, mutual funds, tax planning, healthcare planning, retirement planning, and estate planning.

Prerequisite: FINC 340**FINC 469 Student Internship (2-8)****Fall:** All Years **Spring:** All Years

Students must have Junior standing.

FINC 490 Topics in Finance (1-3)**Fall:** On Demand **Spring:** On Demand

This is a Senior level topics course and may be repeated as topic varies.

FINC 495 Special Topics in Finance (3)**Fall:** On Demand **Spring:** On Demand

Selected topics of contemporary interest will be examined in this course. In the past, topics such as Futures and Options, Fixed Income Securities, and current Issues in Financial Management have been discussed. **Prerequisite:** FINC 340

FINC 497 Problems in Finance (1-3)**Fall:** All Years **Spring:** All Years

Individual inquiry into an aspect of finance not covered in the regular curriculum.

French**FREN 101 [E] Beginning French I (4)****Fall:** All Years

Basic skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes an introduction to French and Francophone culture. Language laboratory required for oral practice.

FREN 102 [E] Beginning French II (4)**Spring:** All Years

Basic skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes an introduction to French and Francophone culture. Language laboratory required for oral practice. **Prerequisite:** FREN 101

FREN 190 Topics in French Language, Literature, and Culture (1-4)**Fall:** On Demand **Spring:** On Demand

Topics in French Language, Literature, and Culture. May be repeated since content may vary.

FREN 201 [E] Intermediate French I (4)**Fall:** All Years

Further improvement of language skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes authentic French and Francophone cultural readings. **Prerequisite:** FREN 102

FREN 202 [E] Intermediate French II (4)**Spring:** All Years

Further improvement of language skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes authentic French and Francophone cultural readings. **Prerequisite:** FREN 201

FREN 290 Topics in French Language, Literature, and Culture (1-4)**Fall:** On Demand **Spring:** On Demand

Topics in French language, literature, and culture. May be repeated since content may vary.

**FREN 297 Independent Study in French -
Intermediate Level (1-2)**

Fall: On Demand **Spring:** On Demand
Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits. Requires approval by department chair upon presentation of proposal. **Prerequisite:** FREN 201

First Year Experience

FYE 101 First Year Experience (1)

Fall: All Years
An introduction to the demands and challenges of higher education. The course is designed to strengthen student success in college through personal and academic skills development. The skills include: study skills, notetaking, time management, critical thinking, career/life planning and interpersonal relationships.

Graphic Communications

**GCOM 150 Survey of Graphic Communications
Industry (1)**

Fall: All Years **Spring:** All Years
A survey of various graphic communication production processes and careers. The survey topics include, but are not limited to, computer graphics, desktop publishing, web design, multimedia, animation, virtual reality, commercial printing, photography, and television.

GCOM 152 Design for Graphic Communications I (3)

Fall: All Years
This class is the first in a series of two that will lead the student through exercises aimed at developing basic design and aesthetic skills needed by graphic communicators. The course will be broken into three distinct areas: developing one's creative processes, working with type and images, and creating visually appealing graphics.

GCOM 190 Topics in Graphic Communications (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division course in Graphic Communications and may be repeated when the topic changes.

GCOM 216 3D Modeling (3)

Fall: All Years **Spring:** All Years
3D Modeling is a course about building 3D CAD models for a variety of disciplines. Forensic animators use these models to demonstrate how accidents happen. Engineers use them to show how machines and systems work. Architects use them to let their clients participate in the design process. Video game developers use them to create virtual worlds populated with people, places, and things that exist only in the imagination.
Prerequisite: ENG 113 or TECH 113

GCOM 252 Design for Graphic Communications II (3)

Spring: All Years
Builds upon the principles of design and visual elements introduced during GCOM 152. Focus is placed on the design process. Students are required to research, plan, and execute creative design that communicates an intended message.

GCOM 255 Beginning Computer Graphics (3)

Fall: All Years **Spring:** All Years
Computer graphics pertains to the production of graphics, illustrations, typesetting, and camera-ready art by using various computer platforms and software packages. This course introduces students to the Macintosh platform and various hardware and software used in the graphic communications industry today. The main emphasis is on how and why this equipment is used for print, video, and multimedia. Not open to students who have completed MC 220.

**GCOM 259 Graphic Communications
Technologies (2)**

Spring: All Years
An exploration of technologies used in the Graphic Communications Industry. **Prerequisite:** GCOM 152

GCOM 266 Introduction to Multimedia (3)

Fall: All Years
Exploration of different modes of multimedia production to include computer-based music, television, film, and the Internet.

GCOM 290 Topics in Graphic Communication (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division topical course and may be repeated when the topic changes.

GCOM 316 Three Dimensional Animation (3)**Spring:** All Years

Study of animation techniques used in the graphic communications industry. Prime emphasis is on using 3D Studio Max software to design and animate scenes of various complexity. **Prerequisite:** GCOM 216

GCOM 355 Intermediate Computer Graphics (3)**Fall:** All Years **Spring:** All Years

This course will build on the student's basic knowledge of computer graphics, along with the applications of various software and hardware used in the preparation of materials for print, video, and multimedia. The Macintosh and PC platforms and the software programs used in the graphic communications industry will be explored in more depth. Students will be able to transfer files from one location to another. **Prerequisite:** GCOM 255

GCOM 366 Web Authoring with Dreamweaver (3)**Fall:** Odd Years

A continued study in multimedia as it applies to the Internet. Focus is on the development of advanced web presentations for business and organizations, including Scripting, Interactivity, Networks, HTML and VRML.

GCOM 368 Multimedia Authoring with Flash (3)**Fall:** All Years

This course examines the layers, facets, and the concepts of multimedia. A look at the workings of multimedia in the fields of education and training, medicine, architecture, graphic and corporate communications, and entertainment. Not open for undergraduate mass communications credit.

Prerequisite: CSIS 101, GCOM 355, GCOM 366**GCOM 390 Topics in Graphic Communication (1-4)****Fall:** On Demand **Spring:** On Demand

This is an upper division topics course and may be repeated when the topic changes.

GCOM 416 Advanced Three Dimensional Animation (3)**Fall:** All Years

Continued study in 3D Animated Graphic Application. Students will use either Mac, SGI, or Windows platforms. Study includes application of sound and video to be incorporated into projects.

GCOM 452 Graphic Communications**Management (3)****Spring:** Odd Years

A study of basic principles and theories of graphic communications estimating. Computer-based estimating programs and traditional estimating methods are studied. **Prerequisite:** GCOM 150, GCOM 255

GCOM 455 Advanced Computer Graphics (3)**Fall:** All Years

Advanced Computer Graphics is an in-depth exploration of two of the most widely used programs in the graphic communications industry today, Adobe Illustrator and Adobe Photoshop. In this course, students will learn advanced techniques in Adobe Illustrator, how to combine Adobe Illustrator and Adobe Photoshop files, and will begin learning advanced techniques in Adobe Photoshop.

GCOM 457 Digital Prepress (3)**Fall:** All Years

Digital Prepress includes all facets of a project from concept to print. It is not only important to know how to use computer applications to create projects for print, it is also important to know how to create these projects so that they are capable of being printed. This requires knowledge of printing processes and materials and how they fit together with what is created on the computer. This course is based upon the offset lithographic printing process and the digital prepress process that it uses. It utilizes Macintosh computers and programs that are used in the graphic communications industry today.

Prerequisite: GCOM 455**GCOM 458 Digital Production (3)****Fall:** All Years

Digital Production is the culminating course in the computer graphics and digital prepress course series. This course is designed to bring together all of the computer graphics and digital prepress knowledge already learned, prepare students for presenting projects and working with clients, and to continue the in-depth exploration of Adobe Photoshop begun in GCOM 455. Listed prerequisite can be waived with permission of the instructor. **Prerequisite:** GCOM 457

GCOM 459A Graphic Communications Final Project A (2)**Fall:** All Years

Capstone experience for Graphic Communications students. Culminating final project focusing on skills and knowledge ascertained from previous semesters. Students must also complete GCOM 459B.

GCOM 459B Graphic Communications Final Project B (2)

Fall: All Years **Spring:** All Years
 Capstone experience for Graphic Communications students. Culminating final project focusing on skills and knowledge ascertained from previous semesters. Students must first enroll in GCOM 459A.

GCOM 466 Advanced Multimedia/Web Authoring and Development (3)

Spring: All Years
 Continued practical study of Advanced Multimedia and Web applications. Emphasis is on production processes, CD ROM, manufacturing, and Web servers. Advanced study of Macromedia Lingo and Javascript.

Prerequisite: GCOM 366, GCOM 368, MUS 381

GCOM 469 Internship (2-12)

Fall: On Demand **Spring:** On Demand
 Available to all Graphic Communications students. Approved practical work experience. Supervised by departmental faculty. Maximum of 12 credits applied to graduation.

GCOM 490 Topics in Graphic Communication (1-3)

Fall: On Demand **Spring:** On Demand
 This is an upper division topics course and may be repeated when the topic changes.

Geoscience

GEOS 102 [B/4] Geology in the National Parks (3)

Spring: All Years
 Study of the processes that have shaped the Earth, including earthquakes, volcanoes, erosion, glaciation, sedimentation, structural deformation; and the geologic history of North America, including mountain building and ocean advances and retreats. Focus on the geological features seen in our National Parks.

GEOS 110 [B] Introductory Physical Geography (3)

Fall: All Years **Spring:** On Demand
 Basic elements of geography including weather and climate, vegetation, soils and landforms.

GEOS 111 [F] Cultures and Regions (3)

Fall: On Demand **Spring:** All Years
 This course will introduce the foundations for studying the development of cultures and cultural diversity in the world, introduce the foundation concepts of Regional Geography, and study the interrelation between cultures, regions, their environments, and their activities.

GEOS 115 [B1/4L] Physical Geology (4)

Fall: All Years
 The nature of the earth, its description and the processes that govern its formation and change; including rocks and minerals that make up the earth, their characteristics and how they form; volcanic eruptions; earthquakes; weathering and the transport and deposition of sediment; mineral and energy resources; and the nature of other planets in our solar system. Lab included.

GEOS 115L [B1/4L] Physical Geology Lab (0)

This lab must be taken concurrently with GEOS 115 Physical Geology.

GEOS 116 [B1] Historical Geology (3)

Spring: All Years
 Earth history from its beginning to present, including formation of continents, origin and destruction of mountain ranges, advances and retreats of oceans, processes that formed layers of rock and the principles by which they are "read", and what fossils tell about ancient living communities and the environments they lived in. Lab included.

GEOS 117 [B1] Water, Land, and People (4)

Fall: Even Years
 Focuses on the most recent changes in the earth and the portion of the earth with which people have the most interaction, including water, soil, air, and landforms developed by rivers, wind, and glaciers, with emphasis on how our environment influences and is influenced by human activity. Lab included.

GEOS 170 [B1] Earth Science Today (3)

Fall: All Years **Spring:** All Years
 A survey of the components of Earth Science needed for teacher licensure in Minnesota, including aspects of physical geology, historical geology, astronomy, and meteorology. Particular emphasis is placed on critical evaluation of evidence, how we know things in science, what the implications are for our society, and on actual investigation. Topics include volcanoes and earthquakes, the influence of chemical change on natural resources and environment, plate tectonics, planetary science, phases of the Moon, stories told by rocks of the Earth, how weather features form and move, and Earth's climate.

GEOS 225 Conservation (3)

Fall: All Years
 Environmental problems such as food supplies, energy resources, air and water pollution and wildlife habitat.

GEOS 235 [C] Geography of Minnesota and North Dakota (3)

Fall: On Demand **Spring:** On Demand
Survey and analysis of the physical and cultural environments of Minnesota and North Dakota.

GEOS 301 Archaeological Prospection (3)

Fall: Odd Years

Examination of geophysical prospecting methods available for archaeological research. Emphasis on the conceptual basis of different prospecting methods and their application in archaeological and geotechnical studies. Hands-on experience with geophysical instruments.

Prerequisite: ANTH 115, GEOS 115

GEOS 302 Mineralogy (3)

Fall: Even Years

This course introduces students to the crystal structure, chemistry, physical properties, geological and chemical environments of formation, and natural occurrence of minerals. Understanding of minerals and mineralogy is foundational to geology and it is recommended that this course be taken prior to other upper level geology courses where possible. Lab included. **Prerequisite:** GEOS 115, GEOS 115

GEOS 303 Petrology (3)

Spring: Odd Years

This course examines how sedimentary and metamorphic rocks form, focusing specifically on the chemical and textural information that reveals information about Earth's past and present. Understanding of petrology is foundational to geology and this course is prerequisite for several upper level geology courses. **Prerequisite:** GEOS 115, GEOS 302

GEOS 305 [B] Oceanography (3)

Fall: Even Years

Introduction to oceanography, with emphasis on: ocean-atmospheric interaction and global climate, plate tectonics and morphology of the ocean basins, marine geology, energy resources, environmental problems due to sea level rise, coastal erosion, oil spills, and life in the sea. One field trip to observe shoreline processes is required. A special fee will be assessed to students participating in the field trip to cover the transportation costs.

GEOS 310 United States and Canada (3)

Fall: All Years

Regional survey of United States and Canada with emphasis on regional contrasts and interrelationships.

Prerequisite: GEOS 110, GEOS 111

GEOS 315 Sedimentology and Stratigraphy (3)

Fall: Odd Years

Classification and description of the various kinds of sediments and sedimentary rock units; sedimentary facies; cyclic sedimentation; and techniques of correlating sedimentary rocks. Laboratory exercises will be incorporated into the lecture period. One field trip is required. A special fee will be assessed to those students electing to participate on an optional field trip to cover transportation costs.

Prerequisite: GEOS 115, GEOS 302, GEOS 303

GEOS 320 [C] Economic Geography (3)

Fall: On Demand **Spring:** On Demand

This course will focus on the geography of human economic activities, including agriculture, mining, manufacturing, trade, and the global patterns of world economics. **Prerequisite:** GEOS 110

GEOS 325 Reading Landscape: Ways of Seeing (3)

Spring: Even Years

Explores the landscape concept as developed and applied within anthropology and the geosciences. Considers the interaction of culture and perception in the way we view our physical world.

GEOS 330 [B1] Elementary Meteorology (3)

Fall: Odd Years

The basic elements of weather, including temperature, pressure, condensation and precipitation, air masses and fronts, vorticity, jet streams and storms.

Prerequisite: GEOS 110 or GEOS 115

GEOS 340 Economic and Environmental Geology (3)

Spring: Even Years

This course introduces students to aspects of geology important in understanding earth's energy and mineral resources and how human activities in extracting and using those resources affect our environment. Key topics covered include an introduction to water movements on and in the ground (hydrology), how pollutants move in that water, the geochemical interactions among earth, water, and air, ore-forming and oil-forming processes, economic considerations important in the use of natural resources, and environmental laws.

Prerequisite: GEOS 115, GEOS 302

GEOS 350 Geoarchaeology (3)**Spring:** Odd Years

Examines the application of Geosciences methods and techniques to archaeological deposits and materials. Emphasis on critical evaluation and interpretation of geoarchaeological data using a series of case studies.

Prerequisite: ANTH 115 or GEOS 117**GEOS 360 [B] Planetary Science (3)****Fall:** Odd Years

A synthesis of current knowledge of the members of the solar system and the origin and evolution of planetary systems. Lab included.

Prerequisite: GEOS 115 or AST 102**GEOS 360L Planetary Science Laboratory (0)****Spring:** Odd Years

This is a planetary science lab course that must be taken concurrently with GEOS 360.

GEOS 370 Structural Geology and Mapping (3)**Spring:** Odd Years

This course covers key aspects of structural geology including deformational structures, deformational styles, and material properties. The lab focuses on mapping skills such as interpretation of geological maps and inferring cross-sectional view based on map views. **Prerequisite:** GEOS 115

GEOS 370L Structural Geology and Mapping Lab (0)**Spring:** Odd Years

This is a structural geology and mapping lab course that must be taken concurrently with GEOS 370.

GEOS 390 Topics in Geosciences (1-3)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the course topic changes.

GEOS 397 Research in Geosciences (1-3)**Fall:** On Demand **Spring:** On Demand

Individual research in collaboration with instructor. Product may be a written report, publication, or report at a professional meeting. Project and its format must be accepted by research advisor before registration. May be repeated for different research projects.

GEOS 405 Geographic Information Systems (3)**Spring:** All Years

Geographic Information Systems are a powerful research tool combining the classic methods of cartography and map analysis with the computer's abilities to collect, store, retrieve, transform, analyze, and display spatial and statistical data from a wide variety of sources. GIS allows the user to see spatial patterns that are otherwise missed, and describe and analyze them. GIS is also a multi-disciplinary tool whose benefits to other fields of study have thus far been unlimited.

GEOS 410 Eastern Europe and Russia (3)**Spring:** Odd Years

This course is a regional study of Eastern Europe and Russia which will focus on the global importance of the nations of this region, and the origins of their influence. An understanding of the physical and cultural characteristics of the region will provide a foundation for the understanding of the events of recent history, and the geographic significance of the nation-states of the region.

GEOS 415 Reading Geochemical Fingerprints (3)**Fall:** Even Years

This course addresses the geochemical processes by which the Earth has become chemically differentiated, the impact of that differentiation on humans past and present, and the ways by which chemical fingerprints can be used to understand past human activities. Students can expect to learn about ore and soil-forming processes, processes for chemical and isotopic differentiation in the lithosphere, hydrosphere and atmosphere, statistical methodologies for studying chemical differences, analytical methods for measuring chemical and isotopic properties of earth materials, influence of geographic distribution of resources on human occupation, and the use of chemical information in archaeological studies. Students will participate in solving geochemical and archaeological puzzles using chemical, mineralogical and textural information. **Prerequisite:** GEOS 115

GEOS 416 Paleontology (3)**Spring:** Even Years

An introduction to the history of life on Earth. Lectures focus on concepts in paleontology including origin of life; evolution; ecology; and use of fossils in the solution of geologic problems. Characteristics of common fossils will be the focus of the laboratory. Two lectures and one one-hour lab per week. One field trip is required; up to two optional field trips possible (fee will be required to cover travel cost of trips). **Prerequisite:** GEOS 102 or GEOS 115 or GEOS 116 or BIOL 111

GEOS 417 Taphonomy and Paleoecology (3)**Spring:** Odd Years

This course will explore the variety of processes that affect the condition and formation of fossils, and the use of this information in the fields of paleontology, paleoecology, and archeology to make interpretations concerning environments and specific processes. Taphonomic processes in both marine and terrestrial environments, and the affects on invertebrate and vertebrate fossils will be addressed. This course will include at least one weekend field trip, and students will be expected to pay a small fee to cover transportation costs. **Prerequisite:** GEOS 102 or GEOS 115 or GEOS 116 or GEOS 117

GEOS 450 Field Geology (3)

This is a three week course that will be offered during the summer. Students will be exposed to the basics of geologic reconnaissance, measurement of stratigraphic sections, mapping on aerial photographs and topographic maps, and construction of structure sections. The course will also introduce students to the regional geomorphology, stratigraphy, and structure through South Dakota, the Black Hills, Wyoming, Montana, Yellowstone Park, and Theodore Roosevelt Park. An additional fee will be assessed to students to cover the cost of lodging, food, and transportation. **Prerequisite:** GEOS 115, GEOS 302, GEOS 303, GEOS 315, GEOS 370

GEOS 455 Field Methods in Geoarchaeology (4)**Fall:** On Demand **Spring:** On Demand

Provides field experience with a variety of geoarchaeological techniques applied within the context of an interdisciplinary research program. Research design and the research process will also be emphasized. In addition to the listed pre-requisite, students must have taken at least one entry level geology course. **Prerequisite:** ANTH 115

GEOS 460 Igneous and Metamorphic Petrology (3)**Fall:** On Demand **Spring:** On Demand

This course covers the interpretation of igneous and metamorphic rocks, including how they form and what they tell us about interior processes in the Earth. The course emphasizes interpretation of phase diagrams and phase equilibria.

Prerequisite: GEOS 102 or GEOS 110 or GEOS 115 or GEOS 116 or GEOS 117

GEOS 469 Internship in Geosciences (1-10)**Fall:** On Demand **Spring:** On Demand

A supervised, practical experience in the field, with report, journal, or other synthesis done in consultation with an MSUM advisor.

GEOS 480 Senior Seminar (1)**Fall:** All Years

Student and faculty participants will give oral presentations of their own independent research and/or critical evaluation of professional literature. The course will review methods of library research and Geoscience research. Students must have taken at least one introductory course in Geosciences and must have attained Junior status in a Geoscience major.

GEOS 490 Topics in Geosciences (1-3)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the course topic changes.

History**HIST 101 [2] Critical Issues in U.S. History (3)****Fall:** All Years **Spring:** All Years

This course aims to develop students' critical thinking and multicultural skills by using four case studies in American history. The case studies offer the opportunity for the student to experience the history of multicultural America through engagement with primary and secondary sources in a variety of written and oral exercises.

HIST 104 [F/5] World History I (3)**Fall:** All Years

World Civilizations from the ancient through classical periods and up to 1500.

HIST 105 [F/5] World History II (3)**Spring:** All Years

The World since 1500; the development of European global hegemony; the post-European world.

HIST 121 [C/5] History of the United States to 1877 (3)**Fall:** All Years

The colonial beginnings to the end of Reconstruction; the founding of the American society and growth of the new nation through the aftermath of the Civil War.

HIST 122 [C/5] History of the United States Since 1877 (3)**Spring:** All Years

The Gilded Age and 20th century; the development of modern industrial America to world power status.

HIST 190 Studies in History (2-3)

Fall: On Demand **Spring:** On Demand
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. Not applicable to History or Social Studies majors.

HIST 220 [F1] Asian-American Culture (2)

Spring: All Years
An introduction to the major aspects of Asian-American culture, including geography, history, economics, family, community, psychology and literature, with emphasis on the Asian-American experience in social adjustment.

HIST 241 History of Social Welfare (3)

Fall: All Years **Spring:** On Demand
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 280 Introduction to Public History (2)

Fall: On Demand **Spring:** On Demand
This course exposes students to a variety of historical pursuits outside of academia. Students learn new skills through participation in a group project and become acquainted with career options in history.

HIST 290 History Topics (1-4)

Fall: On Demand **Spring:** On Demand
This course is a topics course and may be repeated when the topic varies.

HIST 301 [F] East Asian History I (3)

Fall: Even Years
Traditional China, Japan, and Korea from the Neolithic cultures to mid-19th century.

HIST 302 [F] East Asian History II (3)

Spring: Odd Years
East Asia since 1830: Western intrusion, reform, revolution and contemporary issues.

HIST 303 [F] History of Africa I (3)

Fall: On Demand
African civilization up to 1800.

HIST 304 [F] History of Africa II (3)

Spring: On Demand
Africa in the 19th and 20th centuries.

HIST 307 Topics in Asian History (3)

Fall: On Demand **Spring:** On Demand
Selected topics in Asian history.

HIST 310 Topics in European History (2-3)

Fall: On Demand **Spring:** On Demand
Selected topics in European history.

HIST 311 Topics in North American History (2-3)

Fall: On Demand **Spring:** On Demand
Selected topics in North American history.

HIST 315 Minnesota and the Upper Midwest (2)

Fall: On Demand **Spring:** On Demand
Historical development of the upper midwest region with particular focus on the State of Minnesota.

HIST 316 Ancient Greece and Rome (4)

Spring: Even Years
An examination of the politics, culture, and society of Classical Greece and Rome (c. 750 BCE-500 CE). Aegean civilization, the age of Pericles, and the Hellenistic Age after Alexander the Great receive particular emphasis in the first half of the course. The second half of the course will trace Roman history in the early monarchy and republic, imperial expansion, the Pax Romana, and the decline and fall of the Empire.

HIST 317 Medieval Europe (4)

Fall: Even Years
An analysis of European history from 500 to 1450, focusing on the political, social, religious, and intellectual trends of the period. The early Germanic kingdoms, the medieval papacy, feudal relations, the expansion of towns and commerce, and the rise of national monarchies will receive particular emphasis.

HIST 319 Early Modern Europe (4)

Spring: Odd Years
Examines the transition from medieval to modern Europe between 1450 and 1750. The Renaissance and Reformation, European overseas expansion, the Scientific Revolution and Enlightenment, and the rise of the modern state, culture, and economies will receive particular emphasis.

HIST 321 [C] History of Britain I (3)

Fall: Odd Years
Survey from Neolithic settlement to 1714, with emphasis on the legacies of Britain's various settlers, the development of parliament as an institution, the relationship between England, Scotland, Ireland and Wales, the Reformation and early colonization.

HIST 322 [C] History of Britain II (3)**Spring:** Even Years

Survey from 1714 to the present, with emphasis on the formation of the British Empire, industrialization, social and political reform movements and decolonization and political devolutions of the late 20th century.

HIST 323 Nineteenth Century European History (4)**Fall:** Odd Years

Covering the French Revolution to the outbreak of WWI, this course focuses on the major powers of Europe (France, Germany, Britain, Austria-Hungary, Italy and Russia), with emphasis on the development of key concepts such as industrialization, mass society, the concert of nations, social reform and nationalism.

HIST 324 Twentieth Century Europe (4)**Spring:** Even Years

Europe's transition from imperial powers to the formation of the European Union, including both World Wars, the development, rise and decline of fascism and communism as state ideologies, the modern European welfare state, economic reorganization and ethnic conflict in contemporary Europe.

HIST 329 Modern Military History (2)**Fall:** On Demand **Spring:** On Demand

Tracing technological and social developments from 1450 to the present through military history, this course will highlight key battles and figures. Emphasis on the development of the nation-state, interaction of Europe with the non-Western world, industrialization, wars of decolonization and potential future conflicts.

HIST 333 [F] History of Latin America I (3)**Fall:** On Demand

Iberian heritage, pre-Columbian Indian cultures, the era of conquest, the colonial period and Wars of Independence.

HIST 334 [F] History of Latin America II (4)**Spring:** On Demand

Major trends in Latin America in the 19th and 20th centuries.

HIST 335 History of the Aztecs and the Incas (3)**Spring:** On Demand

A survey of the development of two pre-Columbian civilizations with emphasis on their methods of organization and imperial expansion.

HIST 336 History of Mexico (3)**Fall:** On Demand **Spring:** On Demand

An examination of the major themes in the development of the Mexican nation with the emphasis on the period since independence.

HIST 346 Modern China (3)**Fall:** Odd Years

China from the late Qing period to the present with emphasis on the revolutionary movement and attempts at modernization.

HIST 347 Modern Japan (3)**Spring:** Even Years

Japan from the Tokugawa period to the present. Focuses on the course of modern transformation: seclusion, industrialization, militarism, reform and reemergence as an economic superpower.

HIST 350 Women in European History (4)**Fall:** On Demand

The historical experience of European women as a force in politics, in economic and familial roles, in organized religion and in cultural life, and with special emphasis on the "woman question".

HIST 360 American Revolutionary Era (3)**Fall:** On Demand **Spring:** On Demand

A survey of rising British colonial protest after 1763, the subsequent war for American independence, and the ultimate establishment of the U.S. constitutional system by 1789. **Prerequisite:** HIST 121

HIST 361 Civil War and Reconstruction (3)**Fall:** On Demand **Spring:** On Demand

A survey of Civil War and Reconstruction periods in American history examining the causes and consequences in social, political, military and constitutional areas. **Prerequisite:** HIST 121

HIST 363 The United States in Vietnam, 1945-1975 (3)**Fall:** On Demand **Spring:** On Demand

A survey of the causes, conduct, and consequences of America's longest war. The political, military, and social aspects of United States involvement with Vietnam will be studied. Satisfies the North American area in the History and Social Studies majors.

HIST 366 Constitutional History of the United States to 1865 (3)**Fall:** On Demand

The origins and development of the American Constitution from Colonial times to the beginning of the industrial age. **Prerequisite:** HIST 121

HIST 367 Constitutional History of the United States since 1865 (3)**Spring:** On Demand

The American constitutional system in its historic setting from early industrial times to the present.

Prerequisite: HIST 122**HIST 368 American Life and Thought (4)****Fall:** On Demand

Topical approach to social changes that have affected the life-styles, values, and ways of thinking of diverse groups in American history.

HIST 375 Women in United States History (3)**Fall:** On Demand

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 [F1] African-Americans in U.S. History (3)**Spring:** On Demand

The historical experience of African Americans from slavery to the present; how American society has oppressed African Americans and how they have struggled against that oppression, with particular emphasis on organized resistance in the era of the Civil Rights movement.

HIST 378 Asian-American History (3)**Fall:** On Demand **Spring:** On Demand

The historical experience of Asian Americans from mid-nineteenth century to the present. Concentrates on the Asian exclusion, Japanese internment, new immigrants and problems of social adjustment.

HIST 390 History Topics (1-4)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic varies.

HIST 401 Senior Seminar (3-4)**Fall:** All Years **Spring:** All Years

Problems in history for advanced students.

HIST 440 Secondary Social Studies Instruction (3)**Fall:** All Years

Concentrates on the designing of instructional units for middle school and high school social studies' classrooms. A variety of instructional resources, teaching methodologies, and assessment techniques will be explored.

HIST 469 Internship (4-12)**Fall:** On Demand **Spring:** On Demand

History majors gain on-the-job experience in a supervised situation with cooperating private or public agencies.

HIST 497 Individual Study (1-3)**Fall:** On Demand **Spring:** On Demand

Directed readings and discussion on particular topics agreed upon by instructor and student.

Health

HLTH 110 Personal Health and Wellness (3)**Fall:** All Years **Spring:** All Years

This class assists students in examining their personal level of wellness, which includes physical fitness, making good nutrition choices, maintaining a healthy body composition, dealing effectively with stress, determining personal risk for cardiovascular disease and cancer, making wise choices in drug use and avoiding abuse, protecting one's self against sexually transmitted diseases and identifying skills for developing and maintaining successful interpersonal relationships.

HLTH 122 Alcohol and College Life (1)**Fall:** All Years **Spring:** All Years

This online course provides first year students with unbiased factual information about how alcohol and drug use affects college life.

HLTH 124 First Aid for Elementary Education (1)**Fall:** All Years **Spring:** All Years

The study of basic emergency health procedures necessary for the elementary school teacher. This is a lecture class and does not lead to Red Cross Certification.

HLTH 125 First Aid and CPR (2)**Fall:** All Years **Spring:** All Years

To provide the citizen responder with the knowledge and skills necessary in an emergency situation to help sustain life and minimize pain and the consequences of injury or sudden illness until medical help arrives. Successful completion leads to American Red Cross certification in cardiopulmonary resuscitation (CPR) for adult, child and infant, and First Aid Responding to Emergencies.

HLTH 190 Topics in Health (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topics course which may be repeated as course content may vary.

HLTH 200 Introduction to Health Education and Health Promotion (2)**Fall:** All Years

Explores the foundation and philosophy of health education and health promotion. Other topics include job settings for health educators, professional organizations and licensure, access and retrieval of health information, landmark research and theories of health behavior change. Students will be required to demonstrate effective writing skills.

HLTH 250 Injury Management (2)**Fall:** On Demand **Spring:** On Demand

This course provides students with the basic principles of prevention, care, recognition, and treatment of common injuries. The student will learn basic taping techniques.

HLTH 290 Topics in Health (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topics course which may be repeated as course content may vary.

HLTH 301 Health Aspects of Aging (3)**Fall:** On Demand **Spring:** On Demand

Models and theories of aging; environmental factors that affect physiological changes with age; life-style and aging processes.

HLTH 305 Introduction to Nutrition (3)**Fall:** All Years **Spring:** All Years

An introductory course in nutrition focusing on improving personal food choices, discriminating between sources of nutritional information, proper diet planning and maintaining healthy weight.

HLTH 311 Health in the Elementary School (3)**Fall:** All Years **Spring:** All Years

Health and Physical Education in the Elementary School is a course that emphasizes maintaining and improving personal health and preparation of pre-service teachers to take part in developing healthy behaviors in their pre-primary through 8th grade level students. This course includes methods instruction for both physical education and health.

HLTH 315 Health Agencies and Services (3)**Fall:** All Years

A survey of community health agencies and programs at the national, state and local levels.

HLTH 326 Epidemiology (3)**Spring:** All Years

Principles and practices in the cause, prevention and control of disease. Epidemiological terminology, measure of morbidity and mortality, descriptive and analytical epidemiology, screening, infectious disease and occupational epidemiology.

HLTH 327 Safety Education and Consumer Protection (3)**Fall:** All Years

Study and evaluation of factors in safety awareness, accident prevention and consumer protection.

HLTH 330 Disease Prevention (2)**Spring:** All Years

Introduction to common diseases with an emphasis on primary, secondary and tertiary prevention in health education and health promotion.

HLTH 335 Health Education and the Middle Level Adolescent (3)**Spring:** All Years

The middle level adolescent (children between the ages of 10 and 14) experiences dramatic changes in nearly every aspect of their physical, social, emotional, and intellectual lives. Health Education and the Middle Level Adolescent addresses these special considerations, as well as the special role of health education within the goals and philosophy of the middle level approach. **Prerequisite:** HLTH 110

HLTH 340 Health Methods and Materials (3)**Fall:** All Years

Students learn to design, implement and evaluate health lessons related to the National Health Education Standards and the Centers for Disease Control priority areas. Emphasis is placed on developing lesson plans that incorporate measurable objectives and a variety of teaching methods for students in grades 9-12.

HLTH 390 Topics in Health (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topics course which may be repeated as course content may vary.

HLTH 412 Education for Sexuality and HIV/AIDS (3)**Spring:** All Years

This course trains health education majors and minors to carry out sexuality education for students in grades 7-12. Emphasis is placed on developing self-esteem, healthy relationships, and social skills. Current educational research is applied to promote sexual health in children, adolescents, and adults.

HLTH 414 Health Services Planning and Evaluation (3)**Fall:** All Years

Provides knowledge about comprehensive health planning, human resource development and management, research operations in health care institutions including research methodology.

HLTH 415 Design and Evaluation of Community Health Programs (3)**Spring:** All Years

A process approach to organizing, implementing and evaluating community health programs. Prerequisites can be waived with consent of the instructor.

Prerequisite: HLTH 200, HLTH 340, ENGL 387**HLTH 416 Health Services Management (3)****Fall:** All Years

Involves the management theories and practices within healthcare settings, organizational behavior theories, information and materials management systems, including risk management and utilization review.

HLTH 418 Medical and Health Care Law (3)**Spring:** All Years

Provides an overview of the legal system, including such topics as medical malpractice, abortion and the law, euthanasia, insurance, duty to inform, waiver, labor law and union relations.

HLTH 419 Financial Management of Health Care Organizations (3)**Spring:** All Years

Provides students with important concepts, issues, tools and vocabulary that managers need when assuming the financial responsibilities of health care organizations; includes total quality management, cost optimization, productivity management, and capitation managed care.

Prerequisite: ACCT 230, ACCT 231**HLTH 420 Health Policy and Payment (3)****Fall:** All Years

This course is designed to provide a comprehensive view of the economic forces that shape change in today's healthcare delivery system. This course will explore the basic framework of health policy within the United States and the functioning of the health care delivery system in a complex social environment.

HLTH 421 Long Term Care Administration (3)**Spring:** All Years

Overview of how the elderly receive care and support in their home and a variety of institutional settings. Focus on the impact of federal and state law-regulations on the delivery of care; the organization of a nursing home and how the delivery of services are arranged; and integrated in the delivery of care and the techniques and processes for effective long term care management.

HLTH 465 Comprehensive School Health Programs (2)**Spring:** All Years

A step-by-step approach to developing, implementing, and evaluating coordinated school health programs that include school health instruction, school environment, guidance and counseling, health services, food and nutrition programs, physical education, school site health promotion and the development of school and community partnerships.

HLTH 469 Internship (2-12)**Fall:** All Years**Spring:** All Years

Designed for Community Health and Health Service Administration majors. Involvement in field work by placement in health related governmental, volunteer, non-profit, or commercial agencies.

HLTH 474 Workshop in Health Education (1)**Fall:** On Demand**Spring:** On Demand

Designed to meet special needs for current and evolving information in specific health areas.

HLTH 475 Issues and Trends in Health Education (1-3)**Fall:** On Demand**Spring:** On Demand

Issues or trends of major concern in the discipline of Health/Health Education. The course may be repeated as content varies.

HLTH 490 Topics in Health (1-4)**Fall:** On Demand**Spring:** On Demand

This is a topics course which may be repeated as course content may vary.

Honors

HON 200 Honors Colloquium (4)**Fall:** All Years

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 and/or readings. Meetings will encourage informal exchange of ideas and viewpoints between instructors and students. Reading materials will be chosen at the discretion of the instructors.

HON 300 [C] American Society (4)**Fall:** On Demand **Spring:** On Demand

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.

Prerequisite: HON 200**HON 301 [D1] Masterpieces of Literature (4)****Fall:** On Demand **Spring:** On Demand

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, Dostoevski, Yeats, Camus and others.

Prerequisite: HON 200**HON 305 [D] Good and Evil in Literature (4)****Fall:** On Demand **Spring:** On Demand

A study and comparison model of literary treatments of good and evil. Consists of a careful reading of selected works from fiction, poetry and drama with a vigorous discussion of how good and evil are presented and a lively exchange of ideas. Possible works may include such titles as: Heart of Darkness, Faust, Scarlet Letter, "St. Julian the Hospitaller," and various selections from Blake, Dickinson, and Milton.

Prerequisite: HON 200**HON 306 [C] Human Nature in the Western Tradition (3)****Fall:** On Demand **Spring:** On Demand

An examination of current psychological theories regarding human nature and potential, and the evolution of those theories within Western philosophy and literature. **Prerequisite:** HON 200

HON 307 [D1] Transformation of the Roman World: 31 B.C. to A.D. 312 (4)**Fall:** On Demand **Spring:** On Demand

An introduction to the Roman Empire, both its Eastern and Western components, as the setting in which Christianity appeared. The introduction of art, archeology, and literature as the primary sources for interpreting the growth of the Christian religion in the first three hundred years of the common era.

Prerequisite: HON 200**HON 312 [D] Journeys in Literature: Classical and Medieval Masterpieces (3)****Fall:** On Demand **Spring:** On Demand

Examines variations of the journey-theme-inward quests and worldly voyages-in literary masterpieces from Classical Antiquity through the Middle Ages (to c.1400), both East and West. Texts will include The Epic of Gilgamesh, The Aeneid, Nikki, T'ang Dynasty poetry, Beowulf, The Divine Comedy, Travels of Marco Polo, and others.

Prerequisite: HON 200**HON 315 [B] Science and Time (3)****Fall:** On Demand **Spring:** On Demand

An examination of the concept of time in science with special emphasis on the historical field sciences of paleontology and archaeology. Topics to be considered in this course include evolution and change in historical sciences, as well as discussions of calendars and standard forms of time-reckoning. The contrast between relativistic time and ordinary time will be reviewed in order to highlight different scientific study in an interdisciplinary format and to experience an issue-oriented presentation of scientific materials. **Prerequisite:** HON 200

HON 318 [B] Issues of the Nuclear Age (3)**Fall:** On Demand **Spring:** On Demand

The course will discuss the physics of atoms and nuclei, and discuss the broad impact these ideas have had on society. Emphasis will be placed on understanding broad physical concepts and scientific principles that lead to the development and use of nuclear weapons and nuclear power. A weekly lab period will be used to view films or perform lab activities designed to develop conceptual understanding. **Prerequisite:** HON 200

HON 390 Topics in Honors (3-4)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic changes.

Prerequisite: HON 200

Humanities

HUM 101 [D1/6] Humanities Through the Arts (3)**Fall:** All Years **Spring:** All Years

An introductory, chronological examination of the arts, focusing on representative works of the Western tradition with reference to historical, literary, and other cultural developments, as well as non-Western parallels.

HUM 132 [F] Introduction to Chinese Culture (3)**Fall:** All Years **Spring:** All Years

An introduction to the major aspects of Chinese culture from ancient times to the present. Topics include language, folklore, festivals, philosophy, religion, family, education, literature and daily life. Lecture, discussion, readings, and films in English. Applicable toward East Asian Studies major and minor. Same as CHIN 132.

HUM 142 [F] Introduction to Japanese Culture (3)**Fall:** On Demand **Spring:** On Demand

An introduction to the major aspects of Japanese culture. Topics include arts, education, family, geography, history, language, literature, philosophy, religion and daily life. Focuses on the distinctive characteristics of Japanese culture in comparison with the Western culture. Lectures, films and discussions in English. Same as JAPN 142.

HUM 211 [D1] Perspectives on Society (3)**Fall:** All Years **Spring:** On Demand

Explores visions of society (e.g. Confucius, Plato) or intercultural encounters between societies (e.g. Age of Exploration). May include works of history, literature, and political theory.

HUM 212 [D] Perspectives on Ultimate Reality (3)**Fall:** Odd Years **Spring:** Even Years

Explores images of the divine in both Western and non-Western traditions. Includes shamanic experiences, Old Testament and gnostic texts, poetry from the Sufi, Hindu and Western traditions, and modern short stories.

HUM 213 [D] Perspectives on the Self (3)**Spring:** Odd Years

Explores a) initiation as a way of knowing or b) the individual in the grip of history, from traditional to modern industrial societies. May include readings in ethnography, depth psychology, and works of literature.

HUM 214 [D1] Classical and Medieval Worlds (4)**Fall:** All Years

A chronological approach to the basic ideas and art-forms of Western civilization, chiefly following the tradition from Homeric Greece through Virgil to Dante and medieval romances.

HUM 215 [D1] Renaissance Through the Modern World (4)**Spring:** All Years

A "cultural history" of the West, presented chronologically from the 1400s, examining the principal contributions of influential figures in literature, political theory, the arts, etc., with pertinent reference to non-Western achievements.

HUM 217 [F] Latin American Humanities (3)**Fall:** On Demand **Spring:** On Demand

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 219 [D1] Scandinavian Humanities (3)**Fall:** On Demand **Spring:** On Demand

An introduction to Nordic social and cultural life as seen in the arts and ideas of the Scandinavian societies and culture.

HUM 220 [F] Introduction to East-West Humanities (3)**Fall:** On Demand **Spring:** On Demand

To examine literature and the arts from a comparative perspective: parallels, contrasts, and intercultural influences focusing on China, Japan, and the West.

Prerequisite: HUM 201**HUM 227 [D1] Russian Humanities (3)****Fall:** On Demand **Spring:** On Demand

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 [D1] Canadian Humanities (3)**Fall:** On Demand **Spring:** On Demand

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 304 Eurospring Semester (1-12)**Spring:** All Years

A study tour focusing on Western European humanities. Led by an MSU faculty member, the tour includes instruction by British faculty in Oxford, England, as well as a tour of important European cultural centers.

HUM 314 [D1] Advanced Classical and Medieval Humanities (3)**Fall:** On Demand **Spring:** On Demand

Major ideas, themes, figures, and achievements of the classical and medieval periods examined through literature and the arts.

Prerequisite: HUM 214 or ENGL 234**HUM 315 [D1] Advanced Renaissance Through Enlightenment Humanities (3)****Fall:** On Demand **Spring:** On Demand

The creative endeavors and expansionistic undertakings of Europeans will be examined within this socio-historical time-frame in an interdisciplinary way juxtaposing ideas, themes, figures and achievements through literature and the arts.

Prerequisite: HUM 215**HUM 316 [D1] Advanced Romantic/Modernist/Contemporary Humanities (3)****Fall:** On Demand **Spring:** On Demand

Major ideas, themes, figures and achievements examined through literature and the arts. Socio-historical context emphasized.

Prerequisite: HUM 215**HUM 333 [D1] Love in the West (3)****Fall:** Odd Years **Spring:** On Demand

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: ENGL 234, HUM 214 or**HUM 390 Topics in Humanities (3)****Fall:** On Demand **Spring:** On Demand

Topics appropriate to upper-division students, developed around the interests of students and instructors.

HUM 397 Independent Study (1-3)**Fall:** On Demand **Spring:** On Demand

May be repeated twice to a maximum of 8 credits.

International Studies**INTL 105 [F] Introduction to Global Issues (3)****Spring:** All Years

This course covers the history of globalization and the social, political, economic and human rights issues posed by globalization. It examines the social theories and conceptual models underlying the analysis of societal and global change. It critically examines the linkages between this community and the broader local, national and global issues and challenges.

INTL 400 Global Experience (1-2)**Fall:** On Demand **Spring:** On Demand

Development of a paper to demonstrate learning outcomes based upon an international experience of one or two semesters. Student is to analyze the cultural context of the country of study and the effect of this on his or her attitudes and understandings. This course is available as an independent study registration. **Prerequisite:** One or two semesters abroad.

INTL 450 Senior Project (3-6)**Fall:** On Demand **Spring:** On Demand

A capstone course for the international studies major in which students will work with an interdisciplinary committee of faculty to plan and develop a thesis that will be presented and defended to the committee. The student is to begin formulation in their junior year and work with a multidisciplinary committee of faculty to finalize formulation, develop an approach, and research that area. Instead of a single advisor, the committee is expected to provide advice and guidance as well as eventual evaluation of the student defense.

INTL 490 Topics in International Studies (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic varies.

Japanese**JAPN 101 [E] Beginning Japanese I (4)****Fall:** All Years

Introduction to Japanese language and culture.

Emphasis placed on the spoken language and reading the Japanese alphabet.

JAPN 102 [E] Beginning Japanese II (4)**Spring:** All Years

Introduction to Japanese language and culture.

Emphasis placed on the spoken language and reading the Japanese alphabet. **Prerequisite:** JAPN 101

JAPN 142 [F/7] Introduction to Japanese Culture (3)**Fall:** All Years **Spring:** All Years

An introduction to the major aspects of Japanese culture. Topics include arts, education, family, geography, history, language, literature, philosophy, religion and daily life. Focuses on the distinctive characteristics of Japanese culture in comparison with the Western culture. Lectures, films and discussions in English. Same as HUM 142.

JAPN 190 Topics in Japanese Language, Literature, and Culture (1-4)**Fall:** On Demand **Spring:** On Demand

Topics in Japanese language, literature, and culture. May be repeated since content may vary.

JAPN 201 [E] Intermediate Japanese I (4)**Fall:** All Years

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.

Prerequisite: JAPN 102**JAPN 202 [E] Intermediate Japanese II (4)****Spring:** All Years

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.

Prerequisite: JAPN 201**JAPN 290 Topics in Japanese Language, Literature, and Culture (1-4)****Fall:** On Demand **Spring:** On Demand

Topics in Japanese language, literature, and culture. May be repeated since content may vary.

JAPN 297 Independent Study in Japanese - Intermediate Level (1-2)**Fall:** On Demand **Spring:** On Demand

Selected project agreed upon by student and instructor. May be repeated for a total of 4 credits. Approval by department chair upon presentation of proposal. **Prerequisite:** JAPN 201

JAPN 301 Advanced Japanese Grammar (4)**Fall:** All Years

Intensive study and practice of Japanese grammar, vocabulary, and writing. **Prerequisite:** JAPN 202

JAPN 302 Japanese Conversation and Composition (4)**Spring:** All Years

Intensive practice in conversation, composition and stylistics for the development of both oral and written proficiency. Includes extensive reading of graded and culturally authentic materials.

Prerequisite: JAPN 301**JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)****Fall:** On Demand **Spring:** On Demand

Topics in Japanese language, literature, and culture. May be repeated since content may vary.

Prerequisite: JAPN 202**JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)****Fall:** On Demand**Spring:** On Demand

A selected project as agreed upon by student and instructor. May be repeated for a total of four credits. Requires approval by department chair.

Prerequisite: JAPN 202

Languages

LANG 469 Foreign Language Internship (2-12)**Fall:** On Demand **Spring:** On Demand

Elective field experience in applied foreign language under agency and departmental supervision.

Opportunity to practice and integrate classroom knowledge of the four language skills. Planning must be done at least one semester prior to the internship.

LANG 471 Methods and Materials in Teaching Foreign Languages I (4)**Spring:** All Years

Theory and practice of teaching foreign languages (K-12). This course is required for students who plan to teach at the elementary level. Students who plan to teach at the secondary level will need to take this course and LANG 472. The course examines current and historical trends, methods and techniques. Microteaching, materials preparation, and assessment will be part of the structure of the course. Completion of the PPST is required prior to enrolling in this course.

LANG 472 Methods and Materials in Teaching Foreign Languages II (4)**Fall:** All Years

Theory and practice of teaching foreign languages (K-12). This course is required for students who plan to teach at the secondary level. Students who seek secondary licensure must also complete LANG 471. The course examines current and historical trends, methods, and techniques with an emphasis on microteaching and materials preparation. Completion of the PPST is required prior to enrolling in this course.

Latin**LAT 101 [E] Beginning Latin I (4)****Fall:** All Years

Latin grammar and syntax, with readings adapted from original texts and with some practice in elementary Latin composition.

LAT 102 [E] Beginning Latin II (4)**Spring:** All Years

Latin grammar and syntax, with readings adapted from original texts and with some practice in elementary Latin compositions. **Prerequisite:** LAT 101

LAT 201 Intermediate Latin I (4)**Fall:** 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, Virgil, Horace, Livy, and Ovid; occasional exercises in composition; some collateral reading in English on various aspects of Roman civilization.

Prerequisite: LAT 101, LAT 102**LAT 202 Intermediate Latin II (4)****Spring:** 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, Virgil, Horace, Livy, and Ovid; occasional exercises in composition; some collateral reading in English on various aspects of Roman civilization.

Prerequisite: LAT 101, LAT 102, LAT 201**Mathematics****Prerequisite Statement:**

For students who entered MSUM as freshmen in Fall 2001 or later, one of the following is required for admission to these mathematics courses: 102, 105, 127, 142, 143, 229, 234, 236, 244, 261, 303, and 306.
 * a minimum MnSCU Placement Exam score
 * a minimum ACT Mathematics score
 * successful completion of Math 099 or PDEV 100.

MATH 102 [E1/3] Introduction to Mathematics (3)**Fall:** All Years**Spring:** All Years

Logic, sets, probability and statistics, problem solving strategies. May not be taken for credit by those who have earned credit in MDS 119. Please read the "Prerequisite Statement" at the beginning of this section carefully.

MATH 105 [E1] Contemporary Mathematics (3)**Fall:** All Years**Spring:** All Years

Topics selected from various areas of mathematics, showing the scope and power of mathematics and emphasizing mathematical methods. Topics include circuits, networks, trees, voting analysis, sequences, and recursion. Not intended to prepare students for any subsequent course. Please read the "Prerequisite Statement" at the beginning of this section carefully.

MATH 127 [E1] College Algebra (3)**Fall:** All Years**Spring:** All Years

Exponents, factoring, equations, inequalities, functions, exponential and logarithmic functions, systems of equations, and matrices. Please read the "Prerequisite Statement" at the beginning of this section carefully.

MATH 142 [E1] Pre-Calculus (4)**Fall:** All Years**Spring:** All Years

Includes equations, complex numbers, functions, polynomials, exponential and logarithmic functions, and trigonometric functions, equations and applications. Please read the "Prerequisite Statement" at the beginning of this section carefully.

MATH 143 [E1] Trigonometry (3)**Fall:** All Years**Spring:** All Years

Trigonometric functions, identities, applications. Please read the "Prerequisite Statement" at the beginning of this section carefully.

MATH 225 Discrete Mathematics (4)**Spring:** Even Years

Sets, relations, graphs, functions, boolean algebras, trees, linear algebra, and their applications to computer science.

Prerequisite: CSIS 150, MATH 261**MATH 229 [E1] Fundamentals of Applied Mathematics (3)****Fall:** All Years **Spring:** All Years

Introduction to differential and integral calculus with an emphasis on applications. Introduction to matrices and their applications. Not open to mathematics majors or minors. Please read the “Prerequisite Statement” at the beginning of this section carefully.

MATH 234 [E1] Introduction to Probability and Statistics (4)**Fall:** All Years **Spring:** All Years

Measures of central tendency and variation, probability, conditional probability and Bayes rule, probability distributions, sampling distributions and the central limit theorem, point and interval estimation, tests of hypotheses, Chi-square test, simple linear regression, and introduction to multiple regression. May not be taken for credit by those who earned credit in MATH 236 or 336. Students who have completed MATH 262 are encouraged to take MATH 335 rather than MATH 234. Please read the “Prerequisite Statement” at the beginning of this section carefully.

MATH 236 [E1] Applied Statistics (4)**Fall:** All Years

Frequency distributions, introduction to probability, normal distribution, central limit theorem, estimation, tests of hypotheses, non-parametric techniques, design of experiments, one-way and two-way analysis of variance, factorial experiments, simple linear regression. May not be taken for credit by those who earned credit in MATH 234 or 336. Students who have completed MATH 262 are encouraged to take MATH 335 rather than MATH 236. Please read the “Prerequisite Statement” at the beginning of this section carefully.

MATH 238 [E1] Statistical Methods (2)**Fall:** All Years

Central limit theorem, estimation, testing of hypotheses, analysis of variance, simple linear regression, multiple regression, and model building. A previous statistics course is assumed for entry into this course. Not open for students who take MATH 234, or who are mathematics majors or minors.

MATH 244 [E1/3] Applied Biostatistics (4)**Fall:** All Years **Spring:** All Years

This course provides students with practical statistical tools for analyzing biological data. Students learn the appropriate univariate statistical tests (correlation, regression, t-tests, ANOVA) for common types of biological data, how to apply computer software to conduct the tests, and how to interpret the statistical results. The course ends with a discussion of experimental sampling design. Please read the “Prerequisite Statement” at the beginning of this section carefully.

Prerequisite: MATH 127 or MATH 142**MATH 260 Computer Calculus (1)****Fall:** All Years **Spring:** All Years

Introduction to applications of computer software to calculus. Students must either have taken, or be concurrently enrolled in, Math 261.

MATH 261 [E1] Calculus I (4)**Fall:** All Years **Spring:** All Years

Calculus of one variable-differentiation, introduction to the integral. Students entering Math 261 should have a solid background in algebra and trigonometry. Please read the “Prerequisite Statement” at the beginning of this section carefully.

MATH 262 [E1] Calculus II (4)**Fall:** All Years **Spring:** All Years

Calculus of one variable-transcendental functions, applications of integrals, techniques of integration, infinite series. Computer labs.

Prerequisite: MATH 261**MATH 290 Topics in Mathematics (1-4)****Fall:** On Demand **Spring:** On Demand

This is a topical course in mathematics. The course may be repeated when the topic is different.

MATH 303 [E1] Foundations of Number Systems (3)**Fall:** All Years **Spring:** All Years

Sets; systems of numeration; whole number, integer, and rational number operations and properties. Particularly appropriate for early childhood, elementary, and special education majors. Not open to mathematics majors or minors. Please carefully read the “Prerequisite Statement” at the beginning of this section.

MATH 304 [E1] Informal Geometry (3)**Fall:** All Years **Spring:** All Years

Fundamental concepts of plane and solid geometry, measurement, probability, and statistics. Particularly appropriate for early childhood and elementary education majors. Students must have completed MATH 303 with a grade of “C” or higher. Not open to mathematics majors or minors.

MATH 306 Mathematics for Special Education (3)**Fall:** All Years **Spring:** All Years

Development of content and methods for teaching mathematics in special education setting. Open only to majors and minors in special education. Does not substitute for MATH 406. **Prerequisite:** MATH 303

MATH 316 Teaching Mathematics in the Middle Grades (3)**Spring:** All Years

Materials and methods of teaching mathematics in grades 5-8. Open only to math majors with a concentration in teaching and to elementary education majors with a specialty in mathematics. In addition to those students who have completed the listed prerequisites, students who are majoring in secondary math education and who have Junior standing may take this course.

Prerequisite: MATH 303 or MATH 304**MATH 323 [E1] Multi-Variable and Vector Calculus (4)****Fall:** All Years **Spring:** All Years

Calculus of several variables—partial differentiation, multiple integration, vector calculus, line and surface integrals, Green’s Theorem, and Stoke’s Theorem. Students must have taken, or be currently enrolled in, Math 260. **Prerequisite:** MATH 262

MATH 327 Introduction to Linear Algebra (3)**Spring:** All Years

Systems of linear equations, Gauss-Jordan elimination, linear programming, matrices, determinants, vector spaces, linear transformations, and eigenvectors. **Prerequisite:** MATH 262

MATH 335 Intermediate Probability and Statistics I (3)**Fall:** All Years **Spring:** All Years

Probability, probability distributions of discrete random variables, probability density functions, expected value and variance, sampling distributions and central limit theorem, point and interval estimation, and tests of hypotheses for the population mean. **Prerequisite:** MATH 262

MATH 336 Intermediate Probability and Statistics II (4)**Spring:** All Years

One and two sample tests of hypotheses, Chi-square tests, analysis of variance, completely randomized and randomized block designs, least square estimation, simple linear regression, multiple linear regression, hypotheses testing and confidence intervals for regression parameters, testing of models, model selection procedures, multicollinearity, introduction of qualitative variables, estimation, interpretation, and testing of hypotheses, checking validity of models. **Prerequisite:** MATH 335

MATH 355 Mathematical Modeling (3)**Spring:** Even Years

Techniques of developing and analyzing mathematical descriptions of physical phenomena.

Prerequisite: MATH 327, MATH 323**MATH 357 Introduction to Operations Research (3)****Fall:** On Demand **Spring:** On Demand

Linear programming, network analysis, dynamic programming, queuing theory, decision analysis, advanced programming techniques.

Prerequisite: MATH 335, MATH 327**MATH 361 Intermediate Analysis I (4)****Fall:** All Years

A rigorous treatment of concepts of calculus and foundations of mathematics including logic and sets, Bolzano-Weierstrass Theorem, limits, Heine-Borel Theorem, continuity, and derivative.

Prerequisite: MATH 327, MATH 323**MATH 362 Intermediate Analysis II (3)****Spring:** All Years

A continuation of the rigorous treatment of concepts of calculus and foundations of mathematics including the Riemann integral, infinite series, sequences of functions and uniform convergence.

Prerequisite: MATH 361

MATH 366 Differential Equations (3)**Fall:** All Years

Standard methods of solution for elementary ordinary differential equations. Students must meet the prerequisite or be concurrently enrolled in MATH 323.

Prerequisite: MATH 323**MATH 401 Special Methods in Mathematics in Elementary School (2)****Fall:** On Demand **Spring:** On Demand

Adapted to the needs and experience of those enrolled. By arrangement.

MATH 406 Mathematics in the Elementary School (3)**Fall:** All Years **Spring:** All Years

Materials and methods of teaching elementary school mathematics. Open only to elementary education majors. Taught as part of PFY. Prerequisites: MATH 303 and 304 with grades of "C" or higher.

Prerequisite: MATH 303, MATH 304**MATH 416 Mathematics in the Secondary School (3)****Fall:** All Years

Objectives, methods, materials, and evaluation of teaching mathematics in grades 9-12. This course is the upper division writing course for BS majors in mathematics with the emphasis in teaching. Students in this course must have Junior standing.

MATH 421 Actuarial Science I (3)**Spring:** Even Years

Applications and synthesis of mathematical and statistical concepts included in the Actuarial Examination I, administered by the Society of Actuaries. Linear time series models, seasonal models, stationary models, moving average, autoregressive and ARIMA models, model identification, confidence intervals and testing, forecasting and error analysis.

Prerequisite: MATH 323, MATH 435**MATH 435 Mathematical Statistics I (4)****Fall:** Odd Years

Discrete and continuous probability distributions, marginal and conditional densities, moment generating functions, transformations, and limiting distributions. Sampling distributions, parametric point estimation and tests of hypotheses.

Prerequisite: MATH 335**MATH 436 Mathematical Statistics II (3)****Spring:** On Demand

Point and interval estimation, sufficient statistics, hypothesis testing, Neyman-Pearson Lemma, likelihood ratio tests, Bayesian estimation techniques, Chi-square tests. **Prerequisite:** MATH 435

MATH 450 Numerical Analysis I (4)**Fall:** Even Years

Numerical solutions to systems of equations and differential equations, finite differences, interpolation formulas, numerical calculus, and approximating functions. **Prerequisite:** MATH 323, CSIS 152

MATH 451 Numerical Analysis II (3)**Spring:** On Demand

Topics related to linear algebra and differential equations.

Prerequisite: MATH 366, MATH 327, MATH 450**MATH 467 Complex Analysis (3)****Fall:** On Demand **Spring:** On Demand

Complex numbers and variables, analytic functions, the Cauchy integral formula, infinite series, and calculus of residues. **Prerequisite:** MATH 361

MATH 469 Student Internship (3-12)**Fall:** On Demand **Spring:** On Demand**MATH 476 Abstract Algebra I (4)****Fall:** All Years

Groups, rings and integral domains studied as abstract mathematical systems. Lagrange's theorem, factor groups, homomorphisms, polynomial rings and quotient rings. **Prerequisite:** MATH 327

MATH 477 Abstract Algebra II (3)**Spring:** On Demand

Fields, field extensions and the theory of finite dimensional vector spaces. Linear transformations and their matrix representations and characteristic values. **Prerequisite:** MATH 476

MATH 480 General Topology (3)**Fall:** On Demand **Spring:** On Demand

Metric spaces, topological spaces, continuity, compactness, connectedness, and separation axioms.

Prerequisite: MATH 361

MATH 483 Theory of Numbers (3)

Fall: On Demand **Spring:** On Demand
 Topics from elementary number theory such as divisibility, congruences, Diophantine equations, number theoretic functions and continued fractions.
Prerequisite: MATH 327

MATH 486 History of Mathematics (3)

Spring: Odd Years
 Topical and chronological survey of the main branches of mathematics. Required for Math Education majors. May not be used as a restricted elective for any other emphasis nor for the B.A. degree in mathematics. **Prerequisite:** MATH 262

MATH 487 Foundations of Geometry (3)

Spring: All Years
 Systems of geometry such as Euclidean, non-Euclidean, coordinate, synthetic, transformational and projective. Models in geometric systems.
Prerequisite: MATH 323 MATH 327

MATH 490 Special Problems in Mathematics (1-4)

Fall: On Demand **Spring:** On Demand
 For advanced students to work on independent problems. May be repeated to a maximum of 6 credits.

MATH 491 Seminar: Mathematics (1-2)

Spring: All Years
 This course is the upper division writing course for BA majors in mathematics and BS majors with the computational or actuarial emphasis.

Mass Communications

MC 100 Introduction to Mass Communications (3)

Fall: All Years **Spring:** All Years
 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 200 Visual Communications (2)

Fall: On Demand **Spring:** On Demand
 A survey of the visual components that make up mass communications, including structural elements, psychological effects, and general visual literacy.

MC 210 Media Writing (3)

Fall: All Years **Spring:** All Years
 Media Writing is designed to achieve the following outcomes: proficiency in the use of the parts of speech, proficiency in the use of Associated Press style relative to capitalization, abbreviations, use of numerals and punctuation, and proficiency in composition of media messages designed for print and broadcast journalism, public relations and advertising. **Prerequisite:** ENGL 101

MC 212 University Newspaper Publication (1)

Fall: All Years **Spring:** All Years
 Practicum for students working on the MSU Advocate staff. Repeatable to 4 credits.

MC 220 Desktop Publishing (3)

Fall: All Years **Spring:** All Years
 Students will acquire knowledge of the fundamental principles of layout and typography for print and on-line, and multi-media publications. Proficiency will be gained in computer applications for scanning and page layout.

MC 230 Photography (3)

Fall: All Years **Spring:** All Years
 The student will experience an introduction to the compositional and conceptual aspects of photography and an exploration of sequencing photographs. Options exist for both digital and film-based photography. Cameras can be rented from the department.

MC 240 Radio Programming and Production (3)

Fall: All Years **Spring:** On Demand
 The objectives of this course include developing a basic understanding of station operations, production processes, programming standards and experience with live and recorded productions.

MC 241 Radio Practicum (1-3)

Fall: All Years **Spring:** All Years
 The objective of this course is to provide the student with an experiential learning opportunity.

MC 251 Desktop Video (3)

Fall: All Years **Spring:** All Years
 Students will acquire knowledge of the fundamental principles of desktop video production, including: use of the digital camera, script writing, storyboarding, shot composition, transfer of digital video to computer, non-linear video editing, output to tape and for the Web.

MC 300 International Communications (3)**Fall:** All Years **Spring:** All Years

This course is designed to achieve the following outcomes: students will acquire a geographical knowledge of countries (including basic demographic and media data) and world regions; experience in intercultural cyberspace correspondence; acquire knowledge of a non-Western country gained from non-U.S. on-line and off-line publications; ability to gather information from diverse sources, to analyze the findings critically and rationally using problem-solving skills, and to communicate effectively through clear writing; and an understanding of the ongoing Third Communication Revolution. Students will also acquire a knowledge of the major controversies related to international communication.

MC 301 Online Advertising, News, and PR (3)**Fall:** All Years **Spring:** All Years

Theory and practice in organizing and disseminating advertising, news, and public relations on the World Wide Web.

MC 302 History of Mass Communications (3)**Fall:** All Years **Spring:** All Years

Students will acquire knowledge of the history of journalism, broadcasting, advertising, and public relations in the United States from the American Revolution to the present. **Prerequisite:** MC 100

MC 303 Advertising Principles (3)**Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: acquire an understanding of advertising theories and principles, how advertising is used, why it is used and how it impacts the American society and economy; acquire an understanding of the advertising industry that includes the function and operation of an advertising agency and the components of an integrated advertising campaign.

Prerequisite: MC 100**MC 304 Public Relations Principles (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: acquire an understanding of the principles, theories and practices of public relations; develop an understanding of the four-step process and how business, government and not-for-profit organizations use it to alter, adapt to or maintain their environments to achieve organizational goals.

Prerequisite: MC 100**MC 305 Imaging in Advertising and Public Relations (3)****Fall:** All Years **Spring:** All Years

Students will gain technical and conceptual skills in the manipulation of digital images for the fields of advertising and public relations. Projects involve acquiring images and producing creative manipulations that can be used for a variety of clients.

Prerequisite: MC 230**MC 306 Advertising Copywriting (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: an ability to analyze consumers; proficiency in the design and construction of advertising messages targeting specific consumers; proficiency in adapting the message copy to fit the mediums used to transmit the message; and proficiency in the public presentation of advertising copy. **Prerequisite:** MC 210, MC 303, MC 220

MC 307 Public Relations Processes (3)**Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: an ability to analyze a public relations situation; proficiency in the design and construction of public relations messages targeting specific publics; proficiency in adapting the message copy to fit the mediums used to transmit the message; proficiency in the design and execution of a public relations special event; and proficiency in the public sharing of public relations materials.

Prerequisite: MC 210, MC 304, MC 220**MC 308 Broadcast Journalism (3)****Fall:** All Years **Spring:** All Years

The study of radio and television news. Students will learn a specific style for writing broadcast news stories from notes, satellite feeds, news releases and the Associated Press. Students will write and re-write stories for both radio and television and learn the basics of editing television news stories.

Prerequisite: MC 210**MC 309 Reporting (3)****Fall:** All Years **Spring:** All Years

Reporting is designed to achieve the following outcomes: proficiency in writing both hard news and soft news; experience in integrating writing, editing and design through teamwork; competence in using Associated press style, grammar and syntax, as well as on-line and off-line research sources; skill in interviewing; and acquire an understanding of the theory and contemporary practice of journalism.

Prerequisite: MC 210, MC 220

MC 310 Copy Editing (3)**Fall:** All Years **Spring:** All Years

Copy Editing is designed to achieve the following outcomes: competence in using Associated Press style, grammar, and syntax; skill in headline writing, outline writing, photo and graphic editing, page layout and design; experience in producing a newsletter through the integration of writing, editing, and design; knowledge of current affairs; and an understanding of the theory and contemporary practice of copy editing.

Prerequisite: MC 210, MC 306 or MC 307 or MC 308 or MC 309**MC 320 Layout and Typography (3)****Fall:** All Years **Spring:** All Years

Students will acquire knowledge of advanced principles of layout and typography for print and online publications. Proficiency will be gained in computer applications for layout.

Prerequisite: MC 220**MC 327 Creating a Newsletter (3)****Fall:** All Years **Spring:** All Years

The objectives of this course are to provide students with the training and theoretical background to create a newsletter intended for dissemination to target publics, with a component on internal and external corporate communications. **Prerequisite:** MC 210

MC 328 Media and Politics (3)**Fall:** On Demand **Spring:** On Demand

Media and Politics explores the concepts of political communication, socialization and public opinion; and 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**MC 330 Photojournalism (3)****Fall:** All Years **Spring:** All Years

Photojournalism is designed to achieve the following learning outcomes: an ability to produce feature, sports, spot news, and environmental portrait photographs for the printed page; proficiency in shooting and laying out photo stories; and an introduction to the history and legal aspects of photojournalism. **Prerequisite:** MC 230

MC 331 Photo Editing (3)**Fall:** All Years **Spring:** All Years

This class is designed to achieve the following outcomes: proficiency to electronically scan, manipulate, sequence and lay out photographs for publication.

MC 341 Television News Writing (1-3)**Fall:** On Demand **Spring:** All Years

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. May be repeated for credit.

MC 342 Television News Reporting (3)**Fall:** All Years **Spring:** All Years

A practicum whereby students learn to produce television news packages. Reporters learn to report on stories as assigned and work along with photographers and video editors to construct weekly news packages. Reporters may also be assigned to write readers and/or voice-overs. They narrate their own reports. Sometimes they will be asked to submit interviews for a report developed by another reporter. Reporters transcribe each of their reports for on-line publication. May be repeated for credit.

MC 343 Television News Photography (3)**Fall:** All Years **Spring:** All Years

A practicum whereby students learn to produce television news packages. Photographers shoot stories as assigned and work along with reporters and video editors to construct weekly news packages. They may be assigned also to shoot sound bites and cover video. Photographers learn to tell stories with natural sound, natural lighting and video sequences. May be repeated for credit. **Prerequisite:** Consent of instructor.

MC 344 Television News Video Editing (3)**Fall:** All Years **Spring:** All Years

A practicum whereby students learn to produce television news packages. Video editors work with reporters and photographers to construct weekly news packages. They may be assigned also to edit video for voice-overs, sound bites and closing credits. Video editors edit television news packages with natural sound, natural lighting and video sequences. May be repeated for credit.

MC 345 Television News Producing (2-3)**Fall:** On Demand **Spring:** All Years

A practicum whereby students learn to produce television news programs. Producers stay informed about news stories, ensure that the future file is up-to-date, and assign stories to reporters, photographers, and videotape editors. Producers select readers, voice-overs, sound bites and packages for inclusion in a weekly newscast, determine the order of these stories and develop a smooth-flowing program within time constraints. Producers coordinate numerous aspects of the news operation and provide feedback to other participants. May be repeated for credit.

MC 351 Interactive Online Communications (3)**Fall:** All Years **Spring:** All Years

This course examines the multimedia concepts of online communication. Students choose, edit, produce and post stories to an ongoing or new journalism Web site of their design. Course will cover the fundamentals of information architecture and Web authoring using such software tools as Macromedia Dreamweaver.

MC 352 e-Communications (3)**Fall:** All Years **Spring:** All Years

Introduction to digital and interactive presentation theory, techniques and tools for online content producers and for advertising and public relations campaign practitioners. Students will design, develop and produce interactive presentations using software programs such as Macromedia Flash.

MC 353 Audio and Visual Online Production (3)**Fall:** On Demand **Spring:** All Years

The objectives of this course include: develop an understanding of the theory of audio and video online production, provide experiential opportunities for audio video online productions and develop an ability to stream audio and video messages over the internet.

Prerequisite: MC 240**MC 356 Multimedia Authoring and Development (3)****Fall:** On Demand **Spring:** On Demand

This course examines the layers, facets and the concepts of multimedia; the workings of multimedia in the fields of education, medicine, architecture, graphic and corporate communications, and entertainment.

MC 365 Media Planning (3)**Fall:** All Years **Spring:** All Years

This course is designed to develop an understanding of the principles involved in the selection of media; proficiency in the evaluation of syndicated media research; proficiency in planning the strategic use of media placements; proficiency in the estimation of media costs; proficiency in the execution of media buys at the local and national levels; and proficiency in the development of a media schedule.

Prerequisite: MC 303**MC 366 Personal Selling (3)****Spring:** All Years

A practical course in professional selling that explores the role of personal selling in the marketing mix and the development of effective techniques for the modern sales executive. Same as MKTG 330.

MC 373 Radio/Television Performance (3)**Fall:** On Demand **Spring:** On Demand

Theory and practice in the professional areas of radio and television performance, from auditioning through final tapings.

MC 374 Producing for Television (3)**Fall:** On Demand **Spring:** On Demand

Theory and practice in the pre-production aspects of television. Includes message/audience analysis, script preparation, studio and crew management in producing a variety of television formats.

Prerequisite: MC 372**MC 375 Case Studies in Organizational Public Relations (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes; an ability to analyze an organizational public relations case study and identify the salient issues; an ability to assess the relative value of the public relations strategies and tactics employed in a case study; an ability to synthesize relationship-building communication strategies and tactics as a means of theory construction; and to develop a repertoire of strategic organizational public relations responses to problems and/or opportunities that impact the relationship between an organization and its external and/or internal publics.

Prerequisite: MC 304**MC 381 Sports Information and the Media (3)****Spring:** All Years

The course deals with the role of the sports information director in creating sports publicity. Attention is concentrated on how the sports information director serves as an information broker between organizations, both professional and amateur, and media outlets. **Prerequisite:** MC 210

MC 382 Sports Promotions (3)**Fall:** All Years **Spring:** All Years

The course focuses on the promotion of sports through marketing, sales and public relations in a seminar with experts in sports and related industries. **Prerequisite:** MC 303 or MC 304

MC 383 Event Planning (3)**Fall:** All Years **Spring:** All Years

The course is designed to achieve the following outcomes: understand the value of events and the role they play in the overall communication of ideas; understand effective meeting design; and learn tactical skills necessary to execute a strategic event. Must have Junior standing. **Prerequisite:** MC 304

MC 390 Special Topics (1-3)

Fall: On Demand **Spring:** On Demand
Study of a particular mass communication topic: exploration of emerging issues, methodologies, and new technologies related to the study or application of mass communications theory not addressed in other courses. May be repeated when topic varies.

MC 400 Mass Media Ethics and Issues (3)

Fall: All Years **Spring:** All Years
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 401 Communications Law (3)

Fall: All Years **Spring:** All Years
Examination of the legal and constitutional history of freedom of speech and press, and a consideration of the legal philosophy bearing upon the communications media and a system of freedom of expression. Students will explore leading cases involving freedom of speech, press, assembly and petition.

MC 402 Introduction to Publishing (3)

Fall: On Demand **Spring:** On Demand
This course familiarizes students with small press publishing and with the various facets of the writing, publication and marketing processes. It also includes an orientation to New Rivers Press, a working non-profit press located at MSUM, and a daylong field trip to various publishing facilities in the Minneapolis-St. Paul area.

MC 405 Computer Assisted Reporting (3)

Fall: All Years **Spring:** All Years
This course is designed to achieve the following outcomes: practical experience in using computer-assisted reporting (C.A.R.) techniques as well as social science research tools to write at least two in-depth stories; experience in covering at least two local government meetings; and an understanding of the theory and practice of public affairs reporting, as well as the emerging concept of public journalism.
Prerequisite: MC 210, MC 309, MC 220

MC 406 Feature Writing (3)

Fall: All Years
Feature Writing is designed to achieve the following outcomes: proficiency in writing feature stories for publication in a print or an online media outlet; develop an understanding of the process of writing features; competency in adapting to the variances required in a feature story when the medium of publication changes; and competency in pitching potential feature stories to editors, as well as the process of adapting feature stories to meet requisites imposed by paying clients.
Prerequisite: MC 210, MC 310, MC 307, or MC 309

MC 407 Magazine Writing (3)

Spring: All Years
Magazine Writing is designed to achieve the following outcomes: proficiency in writing appropriate materials for publication in a print or an online magazine; an understanding of the editorial and production processes of successfully publishing in print and online magazines; and competency in pitching a prospective story to publishers.
Prerequisite: MC 210, MC 310, MC 307 or MC 309

MC 409 Producing Broadcast Ads and Public Relations (3)

Fall: On Demand **Spring:** On Demand
Theory and practice in the pre-production and actual production of advertising and public relations messages for the broadcast media using digital equipment. Learning outcomes include: developing an understanding of client relations, the process of budgeting for productions, strategies of message/audience analysis, experiences in studio/field crew production of advertising messages and public relations messages using a variety of broadcast media formats and post-production evaluation of the goal achievement. **Prerequisite:** MC 251

MC 415 Gender and Media (3)

Fall: All Years
This course critically examines the relationship between gender and mass media. Analysis and discussion focuses on the ways media create and perpetuate gender roles. Examines media assumptions about masculinity and femininity, media representations of women and men, coverage of gendered issues and women and men as media professionals.

MC 420 Multimedia Communications (3)**Fall:** On Demand **Spring:** On Demand

Introduction to the visual communications process, production methods and effective presentation techniques in business. Culminates in the production of an audio/graphic presentation.

Prerequisite: MC 230**MC 423 Marketing Communications (3)****Fall:** All Years **Spring:** All Years

A survey of the elements of marketing, advertising, public relations, sales promotion, and personal selling—with a strong emphasis on the strategic integration of these methods to achieve synergy in their application in the marketplace.

Prerequisite: MKTG 310**MC 427 Public Relations Fundraising (3)****Fall:** On Demand **Spring:** On Demand

The objectives of this course include: introducing students to the theory of fundraising, and developing a working knowledge of the various strategies used in fundraising.

MC 430 Documentary Photography (3)**Fall:** All Years **Spring:** All Years

This class is designed to achieve the following outcomes: an ability to research, photograph, organize and present a group photographic project documenting some aspect of our region. Repeatable to 6 credits. **Prerequisite:** MC 330

MC 440 Broadcast Documentary (3)**Fall:** All Years **Spring:** On Demand

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.

MC 459 Advertising Campaign Research (3)**Fall:** All Years **Spring:** On Demand

This course is designed to achieve the following learning outcomes: an ability to analyze an advertising campaign situation; an ability to identify salient issues relative to the market, consumer, media and product; an ability to design and construct a research plan; proficiency in conducting primary and secondary research using selective research methodologies drawn from content analysis, historical-critical analysis, survey, in-depth interview and focus groups. The AAF campaign topic is used and student membership in AAF is required.

Prerequisite: MC 306**MC 460 Advertising Campaign Execution (3)****Fall:** On Demand **Spring:** All Years

This course is designed to achieve the following learning outcomes: proficiency in the design and production of a strategic campaign document using the AAF topic that includes a situation analysis, a market plan, a media plan, a promotions plan, a public relations plan, an advertising plan, a budget, a campaign schedule and a plan of evaluation, oral presentation of the campaign at the annual AAF competition. Membership in AAF is required.

Prerequisite: MC 459**MC 469 Internship (1-12)****Fall:** All Years **Spring:** All Years

Practical work at an approved media agency. Students must be Mass Communications majors and just have Junior standing. A maximum of 12 internship credits may be applied to the degree.

MC 470 Public Relations Campaign Research (3)**Fall:** All Years **Spring:** On Demand

The course is designed to achieve the following learning outcomes: an ability to construct a research plan; proficiency in conducting primary and secondary research using selective research methodologies drawn from content analysis, historical-critical analysis, survey, in-depth interview and focus groups. The PRSSA campaign topic is used and student membership in PRSSA is required.

Prerequisite: MC 307, MC 375**MC 471 Public Relations Campaign Execution (3)****Fall:** On Demand **Spring:** All Years

The course is designed to achieve the following learning outcomes: proficiency to design and produce a strategic campaign document that includes a situation analysis, an analysis of the PR problem and/or opportunity, a statement of objectives, an articulation of programming executions and an identification of the mechanisms to be employed in the evaluation of a public relations campaign. Membership in PRSSA is required.

Prerequisite: MC 470**MC 472 Advanced Television Production (3)****Fall:** On Demand **Spring:** On Demand

Produce a series of programs to be aired. Includes all levels from writing and casting through taping and post-production effects. **Prerequisite:** MC 374

MC 490 Special Topics (1-4)

Study of a particular mass communication topic: exploration of emerging issues, methodologies, and new technologies related to the study or application of mass communications theory not addressed in other courses. May be repeated when topic varies.

MC 492 Online Journalism Workshop (3)

Fall: On Demand **Spring:** All Years
A capstone seminar designed to provide students with an opportunity to produce an online publication.

MC 493 Topical Workshop (1-3)

Fall: On Demand **Spring:** On Demand
A course designed for workshops on current media topics.

MC 496 Mass Communications Seminar (3)

Fall: On Demand **Spring:** On Demand
Study of various aspects of mass communications with subjects and instructors varying each semester.

MC 497 Problems in Mass Communications (1-4)

Fall: All Years **Spring:** All Years
Individual problems in areas of specific interest to the student.

Multidisciplinary Studies

MDS 095 Mathematics I (3)

Fall: All Years **Spring:** All Years
Signed numbers, fractions and decimals, percents, radicals, exponents, order of operations, solving linear equations and inequalities, operations on polynomials, factoring, and geometry and measurements. This course consists of lecture and laboratory work each week. Credits are not applicable towards any major or graduation.

MDS 100 Algebraic Concept (3)

Fall: All Years **Spring:** All Years
This course is designed to cover selected topics in algebra. The topics include: Exponents, algebraic fractions, polynomials, linear and quadratic equations and system of equations. Each of these will lay emphasis on the mathematical techniques and applications in real world. Credit is applicable to degree. However, this course does not count for liberal studies. Prerequisite: MDS 095 or placement score. **Prerequisite:** MDS 095

MDS 104 [C] Values, Choices, and Behavior (4)

The course is designed to evoke an understanding of human potential from the perspective of Humanistic Psychology. There will be a questioning of human values in conjunction with the integration and application of psychological concepts as they relate to the growth of the self. Systems of values will be used as a basis for an understanding of the relationships involved in human growth.

MDS 106 Career Exploration (1-2)

The course is designed to develop realistic concepts of work and increase the understanding of the factors that affect career decision-making and career satisfaction.

MDS 107 [C/5] Human Development/Growth in the Modern World (3)

Introduces the research methods used in the social sciences and 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.

MDS 109 Introduction to Higher Education (1)

Fall: All Years **Spring:** All Years
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 [E] Expressive Writing (3)

Fall: All Years **Spring:** All Years
Written expression of personal thought and feeling employing the use of various techniques in building writing versatility, including clustering, modeling, revising through peer and small group editing, and reviewing grammar.

MDS 111 [A/1B] Expository Writing (3)

Fall: All Years **Spring:** All Years
Developing strategies for writing a variety of expository essays — from journal responses to essays that narrate, describe, analyze, compare and contrast, classify, show causal connections and argue. Emphasis on the writing process, including pre-writing, peer and small group editing, and revision. This course is the equivalent of English 101.

MDS 113 Introduction to Critical Reading (3)

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.

MDS 117 College Survival Skills (1)

Topics include time and stress management; motivation and concentration improvement; note-taking from both lectures and text; memorization, test-taking, and effective study techniques.

MDS 118 Listening (1)

Study of listening theory and research; focus on the various listening modes; emphasis on practical application and experience for the strengthening of effective listening behavior.

MDS 119 [E1/3] Contemporary Mathematics (3)

Fall: All Years **Spring:** All Years

This course provides the opportunity to apply mathematical theory in everyday life. Topics include: sets and numeration systems, logic, number theory, statistics, geometry, mathematical systems.

Prerequisite: MDS 097, MDS 100

MDS 120 [E1] Mathematics for Liberal Studies (3)

Fall: All Years **Spring:** All Years

Topics selected from various areas of mathematics, showing the scope and power of mathematics and emphasizing mathematical methods. Topics include circuits, networks, trees, voting analysis, sequences, and recursion. Not intended to prepare students for any subsequent course. May not be taken for credit by those who have earned credit in Math 105.

Prerequisite: MDS 097, MDS 100

MDS 121 Business Mathematics (3)

This course emphasizes various areas of mathematics showing their applications in the business world. Topics include: fundamental mathematical skills for business, accounting mathematics, business finance, taxes.

MDS 123 [E1] Mathematical Ideas (4)

Fall: All Years **Spring:** All Years

Topics selected from various areas of mathematics consisting of functions, exponents, system of equations, polynomials, linear and quadratic equations, progressions, descriptive statistics, probability, emphasizing the mathematical techniques and showing the scope of mathematics.

MDS 123A [E1] Mathematical Ideas (2)

Fall: All Years

Topics selected from various areas of mathematics consisting of functions, exponents, system of equations, polynomials, linear and quadratic equations, progressions, descriptive statistics, and probability, emphasizing the mathematical techniques and showing the scope of mathematics. Students who complete 123A and 123B have a mathematical understanding equivalent to MDS 123.

Prerequisite: MDS 097, MDS 100

MDS 123B [E1] Mathematical Ideas (2)

Spring: All Years

Topics selected from various areas of mathematics consisting of functions, exponents, system of equations, polynomials, linear and quadratic equations, progressions, descriptive statistics, and probability, emphasizing the mathematical techniques and showing the scope of mathematics. Students who have completed MDS 123B and MDS 123A have a mathematical understanding equivalent to MDS 123.

MDS 124 Topics (1-3)

Fall: On Demand

Topic varies at discretion of department

MDS 125 Introduction to Computers (1)

Introduction to the uses of the computer, including word processing, basic programming and binary math.

MDS 126 [C/5] Athletics in the U.S. (3)

Fall: On Demand **Spring:** On Demand

An introductory social science class designed to analyze sports as a microcosm in contemporary American society. Topics include: youth sports and college sports; the transmission of cultural values through sports; prominent social problems in sports; and the impact of media and economics on sports, particularly at the college and professional levels.

MDS 130 [C/5] Exploring Marriage and Family (3)

Fall: All Years **Spring:** All Years

An introductory social science class that examines the social institutions of marriage and family. Current trends and theoretical constructs will be reviewed.

MDS 162 [D1/6] Introduction to Dramatic Art (3)

Fall: All Years

The study of theatrical works as a means of interpretation and commentary on society and the human condition. Historical background, criticism and analysis of plays dating from the Greeks to the present.

MDS 170 Studies in Popular Culture (1-3)

Fall: On Demand **Spring:** On Demand
Individual topics in contemporary culture, discussing the need for self-expression, the relationship of art and society, and human freedom and fate.

MDS 171 [D1/6] Comedy: Society's Mirror (3)

Comedy in its various forms. Analysis of how comedy reflects societal values, morals and behavioral expectancies. Traces historical themes, conventions and methods.

MDS 172 [D] Contemporary Values through Science Fiction (3)

Contemporary values reflected in selected science fiction novels, short stories and film. The relationship of science fiction to fiction as a genre is also studied.

MDS 173 [D] Life Stages and Literature (3)

The stages of life as depicted in literature and film. Works include those written for children, adolescents and adults.

MDS 174 [D] Writings from Where We Are (3)

A multidisciplinary exploration of the themes found in the literature, both fiction and non-fiction, of the Upper Midwest.

MDS 175 [D1/5] The Fabulous 50s (3)

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 [D/6] Voyage of the Hero (3)

An examination of the quest motif in ancient, classical, medieval and modern literature, focusing on the hero's journey from birth through apotheosis. Exploration of the quest motif in relationship to the individual's personal development and quest.

MDS 178 [F] World Cultures through Literature (3)

Fall: All Years **Spring:** All Years
An introduction through literature to diverse peoples, cultural practices, and historical legacies within the world community.

MDS 179 [F1/2] Multicultural American Literature (3)

Fall: All Years **Spring:** All Years
Study of minority American literatures, and the cultures out of which they arise. Emphasis on African, Hispanic, Native, Asian, and other minority American literatures with attention to the similarities and differences across minority cultures and their relationship to the dominant culture.

MDS 180 [B1] Plants and Humans I (2)

The importance of plants to human social and economic development and the human role in the modification and distribution of plants.

MDS 181 [B1] Plants and Humans II (2)

The importance of plants to human social and economic development and the human role in the modification and distribution of plants.

MDS 182 [B1] Ethnobotany: Plants, People and Culture (3)

Study of the human uses of plants with special emphasis on utilizing a broader spectrum of wild and indigenous plants.

MDS 185 [B1] Humans and Their Environment (3)

The study of the mechanisms by which balances and stability are maintained in nature.

MDS 192 [B1/4] Science of the Human Body (4)

Fall: All Years **Spring:** All Years
The study of biological processes as illustrated by the structures and functions of the human body.

MDS 195 [B1/4L] Astronomy (3)

Survey lab-based course in constellation identification, use of star chart, history of astronomy, stellar evolution and cosmology.

MDS 196 [B1] Foundations of Physical Science (4)

Acquaints students with the basic concept of modeling in science to introduce them to the fundamentals of chemistry and physics. The material will emphasize mathematical models. The course also examines how science affects our daily life and discusses some of the relevant science topics of the time. **Prerequisite:** MDS 123

MDS 197 [B1/4L] Natural Phenomena (3)

An introductory course in science covering: the history of science and the tools of science; the application of the tools in the study of natural phenomena; the development of the models of the atom and light; and the application of these models in the investigation of environmental concerns.

MDS 198 [B1] Science of Energy Technologies (3)

Spring: All Years
This course will examine the relationships among civilization, society and energy. It will then look at the models of various forms of energy as developed through the science of physics and how these models are used to develop solar technologies.

MDS 205A [C] Group Dynamics/Theory (2)

An introduction to theory and practice of small group interaction and process. Students will be expected to apply learning to their own and others' behavior in small group exercises and projects, developing a wider and more integrated understanding of small group processes and increasing the effectiveness of their group membership skills. This course covers group theory derived from the social sciences. MDS 205A and MDS 205B must be taken concurrently.

MDS 205B [E] Group Dynamics/Interpersonal Communications (2)

An introduction to theory and practice of small group interaction and process. Students will be expected to apply learning to their own and others' behavior in small group exercises and projects, developing a wider and more integrated understanding of small group processes and increasing the effectiveness of their group membership skills. This course introduces interpersonal communications processes which provide the basis for developing communication skills within small groups. MDS 205B and MDS 205A must be taken concurrently.

MDS 210 Understanding Crisis (2)

Fall: All Years

An exploration of crisis situations focusing on normative events, psychological first aid, second order intervention, BASIC, suicide, juveniles at risk, teen violence, homelessness and gambling related issues.

MDS 211 Death and Dying (2)

Spring: All Years

This course will explore a variety of losses focusing on issues related to death, dying, bereavement, AIDS and the adjustment to loss.

MDS 212 Issues in Abuse (1)

Spring: All Years

This course is focused on issues related to abuse. Topics that will be discussed include areas of family violence, spousal abuse, physical child abuse, child sexual abuse, gay and lesbian abuse, elder abuse, and rape. Adolescent abusers as well as sibling abuse will also be discussed. This course will always be graded pass/no credit.

MDS 215 [E/7] Interpersonal Communication (3)

Fall: All Years

Basic communication theory as applied to individual behavior, including perception, self concept, verbal and nonverbal communication, self-disclosure, and conflict management. Other pertinent topics given attention are the ethics of communication, gender specific language, and racism-prejudice. Emphasis on application and personal growth.

MDS 227 [C] Corporations: History, Structure, Influence (3)

A multidisciplinary look at the origins, development, and direction of large corporations, using case studies of representative companies.

MDS 228 [C] The Automobile in America (3)

The impact of the automobile on American society through the insights of history, economics, sociology, politics, literature, and popular culture.

MDS 229 [C] Perspectives on 1980 (3)

Examination of a single "landmark year" from the perspectives of anthropology, history, political science, sociology, and economics. Introduces some of the distinctive approaches of these disciplines.

MDS 232A [C] Women's Roles and Socialization in 19th and 20th Century America (2)

Spring: All Years

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. This course provides a basis to develop an overall understanding of women's position in society and will focus on the social/historical perspective. MDS 232A and MDS 232B must be taken concurrently.

MDS 232B [D1] Women's Roles and Socialization in 19th and 20th Century America (1)

Spring: All Years

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. This course provides a basis to develop an overall understanding of women's position in society and has a historical literature component. MDS 232B and MDS 232A must be taken concurrently.

MDS 233 [C/5] Human Sexuality (3)

Fall: All Years

Spring: All Years

A multidisciplinary exploration of sexuality that encompasses biological, psychological, and social factors which interact in the development of gender, gender identity, gender roles, and sexual behavior. This course has an emphasis on social and psychological factors.

MDS 281 Career Placement (1-4)

Placement on the job in a position closely related to the student's academic work. For Multidisciplinary Studies students only.

MDS 290 Topics in Multidisciplinary Studies (1-4)

Studies integrating concepts from two or more academic disciplines. Topics will focus on the natural, social, artistic, or cultural realms, or combinations thereof. May be repeated when topic changes for up to six credits.

MDS 295 Topics in Behavioral Sciences (1-3)

Study focusing on a specific topic within the behavioral sciences. May be repeated for credit when topic changes.

Management

MGMT 315 Government and Business (3)

Fall: Odd Years

A survey course which includes governmental enforcement of competition, regulation of public utilities, and public enterprise. Same as ECON 315.
Prerequisite: ECON 204

MGMT 360 Principles of Management (3)

Fall: All Years **Spring:** All Years

Analyzes functions of management and the forces that shape and define the manager's role. Students must have Junior standing.

MGMT 370 Management Information Systems (3)

Fall: All Years **Spring:** All Years

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, CSIS 104

MGMT 380 Operations Management (3)

Fall: All Years **Spring:** All Years

Description and analysis of the operations function in an organization.

Prerequisite: MGMT 360, MATH 234

MGMT 405 Small Business Management (3)

Fall: All Years **Spring:** All Years

Analysis of problems confronting the manager of small retail, wholesale, and manufacturing enterprises. Students must have Junior standing.

MGMT 406 Small Business Management Consulting (1-2)

Fall: All Years

Spring: All Years

Practicum in providing management assistance to small businesses. May be retaken for a total of 3 credits. Students must have Senior standing.

MGMT 415 Industrial Organization and Public Policy (3)

Same as ECON 415.

MGMT 416 Labor Economics (3)

Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation. Same as ECON 416.

Prerequisite: ECON 204

MGMT 419 Supply Chain Management (3)

Fall: All Years

Spring: All Years

This course will analyze the supply chain from the point of view of a manager. The goal is to understand how logistical decisions impact the performance of the firm as well as the entire supply chain. The key will be to understand the link between supply chain structures and logistical capabilities in a firm or supply chain. Topics will be covered at the strategic level, planning level as well as the operational level. There will be a mix of qualities and quantitative analysis. Same as MKTG 419.

Prerequisite: MGMT 380, MKTG 310

MGMT 420 Organizational Theory (3)

Fall: All Years

Spring: All Years

Behavioral science theory applied to an understanding of the design, structure, performance and environment of business organizations.

Prerequisite: MGMT 360, PSY 220 or SOC 205

MGMT 430 Managerial Economics (3)

Integration of quantitative methods and economic theory used in managerial decision-making. Same as ECON 430. **Prerequisite:** ECON 204, MGMT 360

MGMT 440 Personnel Management (3)

Fall: All Years

Management of people at work with emphasis on recruiting, selecting, training, and evaluating personnel.

Prerequisite: MGMT 360, PSY 220 or SOC 205

MGMT 441 Labor Relations (3)**Fall:** Odd Years

Historical, legal and managerial aspects of the labor relations function in both private and public sector organizations. Topics include union organization drives, collective bargaining, impasse resolution procedures, contract administration and employee relations policy development.

Prerequisite: MGMT 440**MGMT 442 Compensation and Benefits (3)****Spring:** Even Years

This course covers the relationships between and among compensation level, compensation structure, compensation form, and compensation system rules. Both administration and design are addressed. Seniority, regulatory, merit and union factors are examined in fair detail. Linkages with behavioral theory and performance appraisal also receive coverage. Cost containment in benefit plans, trends in pension plans, and comparative patterns in other countries are also treated. Prerequisite can be waived with the consent of the instructor.

Prerequisite: MGMT 440**MGMT 451 Organizational Behavior (3)****Fall:** All Years **Spring:** All Years

Studies the interaction of individuals and groups in business organizations. The course focuses on providing insights into individual, group, and organizational processes.

Prerequisite: MGMT 360, PSY 220 or SOC 205**MGMT 456 Project Management in Business (3)****Fall:** All Years

This course focuses on identifying and resolving the dilemmas that cause the overwhelming majority of projects to take too long, cost too much, and fall short of expectations. **Prerequisite:** MGMT 360

MGMT 458 International Management (3)**Fall:** All Years **Spring:** All Years

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 cross cultural contexts.

Prerequisite: MGMT 360**MGMT 469 Student Internship (2-8)****Fall:** All Years **Spring:** All Years

Students must have Junior standing.

MGMT 480 Management Science (3)**Fall:** All Years **Spring:** All Years

A study of deterministic techniques of management science such as linear programming, transportation models, assignment models. Other models may be covered as time permits.

Prerequisite: MGMT 360, MATH 234**MGMT 490 Topics in Management (1-3)****Fall:** On Demand **Spring:** On Demand

This is a Senior level topics course and may be repeated as topic varies.

MGMT 495 Special Topics in Management (3)**Fall:** On Demand **Spring:** On Demand

Selected management topics of contemporary interest. May be repeated with different topics.

Prerequisite: MGMT 360**MGMT 497 Problems in Management (1-3)****Fall:** All Years **Spring:** All Years

Individual inquiry into an aspect of Business Administration not covered in the regular curriculum.

Marketing

MKTG 310 Principles of Marketing (3)**Fall:** All Years **Spring:** All Years

Examining the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives.

Prerequisite can be waived with consent of the instructor. **Prerequisite:** ECON 202

MKTG 311 Marketing Management (3)**Fall:** All Years **Spring:** All Years

An examination of practical marketing problems with a focus on analysis, planning, implementation, and control of worldwide marketing programs for the purpose of achieving an organization's objectives.

Prerequisite: MKTG 310**MKTG 315 Industrial Marketing (3)****Fall:** On Demand **Spring:** On Demand

Creating markets for products and services, local to international, bought by businesses, government bodies, and institutions for incorporation, consumption, use, and/or resale.

Prerequisite: MKTG 310

MKTG 317 Services Marketing (3)**Fall:** On Demand **Spring:** On Demand

This course is designed to provide knowledge needed to implement quality service and service strategies for competitive advantage across industries. The foundation of the course is the recognition that services present special challenges that must be identified and addressed. **Prerequisite:** MKTG 310

MKTG 330 Personal Selling (3)**Spring:** All Years

Utilizing the behavioral sciences to analyze the interpersonal influence process whereby potential buyers and sellers interact for the purpose of completing exchanges of goods and services. Prerequisite can be waived with consent of the instructor. Same as MC 366.

Prerequisite: MKTG 310**MKTG 335 Retail Management (3)****Fall:** On Demand **Spring:** On Demand

An analysis of the activities involved in selling goods and services to the final consumer with an emphasis on retail institutions. **Prerequisite:** MKTG 310

MKTG 406 Small Business Management Consulting (1-2)**Fall:** All Years **Spring:** All Years

Practicum in providing marketing assistance to small businesses. May be retaken for a total of 3 credits. Students must have Senior standing.

MKTG 419 Supply Chain Management (3)**Fall:** All Years **Spring:** All Years

This course will analyze the supply chain from the point of view of a manager. The goal is to understand how logistical decisions impact the performance of the firm as well as the entire supply chain. The key will be to understand the link between supply chain structures and logistical capabilities in a firm or supply chain. Topics will be covered at the strategic level, planning level as well as the operational level. There will be a mix of qualities and quantitative analysis. Same as MGMT 419.

Prerequisite: MGMT 380, MKTG 310**MKTG 421 Consumer Behavior (3)****Fall:** All Years

Using concepts drawn from the behavioral sciences to understand those activities people undertake when obtaining, consuming, and disposing of products and services.

Prerequisite: MKTG 310, PSY 220 or SOC 205**MKTG 422 Marketing Research (3)****Spring:** All Years

Methods of obtaining and analyzing internal and external marketing information with an emphasis on survey design and data interpretation.

Prerequisite: MKTG 310, MATH 234**MKTG 423 Marketing Communications (3)****Fall:** All Years **Spring:** All Years

A survey of the elements of promotion — advertising, public relations, sales promotion, and personal selling — with a strong emphasis on the strategic integration of these methods to achieve synergy in their application in the marketplace.

Prerequisite: MKTG 310**MKTG 441 Business and Society (3)****Spring:** All Years

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**MKTG 442 Marketing Seminar (3)****Fall:** On Demand **Spring:** On Demand

Selected marketing topics of contemporary interest. Recent topics include new product introduction, non-profit marketing, direct marketing, and cultural environment of international markets. May be repeated with different topics.

Prerequisite: MKTG 310**MKTG 444 International Marketing (3)****Fall:** All Years

Comprehensive study of the cultural, political, and economic factors affecting international marketing strategies. **Prerequisite:** MKTG 310

MKTG 469 Student Internship (2-8)**Fall:** All Years **Spring:** All Years

Students must have Junior standing.

MKTG 490 Topics in Marketing (1-3)**Fall:** On Demand **Spring:** On Demand

This is a Senior level topics course and may be repeated as topic varies.

MKTG 497 Problems in Marketing (1-3)**Fall:** All Years **Spring:** All Years

Individual inquiry into theoretical or applied aspects of marketing not covered in regular curriculum.

Music

MUS 070 Remedial Music Reading (1)

Fall: All Years

Fundamental music notation concepts and basic music reading skills directed toward sight-singing and keyboard. Designed for the prospective major with a limited background in music reading. Required of all students judged likely to do poorly in Mus 107, based on the results of a diagnostic exam. Offered only pass/fail and no credit will be earned toward graduation requirements.

MUS 090 Piano Proficiency (1)

Fall: All Years **Spring:** All Years

Review and practice in preparation for taking the Piano Proficiency exit examination. Offered only pass/fail and no credit will be earned toward graduation requirements.

MUS 107 Theory and Ear Training I (3)

Fall: All Years

This is the first of a five-semester core sequence of courses in the study of music theory and aural skills for music majors. Pitch and rhythmic notation, intervals, scales, triadic harmony, dominant seventh chords, chord function/pluralities, beginning work in four-voice writing and level-appropriate ear training/sight singing/keyboard exercise will be the focus.

MUS 108 Theory and Ear Training II (3)

Spring: All Years

A continuation of MUS 107, this course focuses on four-voice writing in Baroque chorale style. Diatonic harmony, non-harmonic tones, principles of harmonic progression, modulation to closely related keys, secondary dominant/diminished chords, harmonic implications of the melodic minor scale, motivic development, and level-appropriate ear training/sight signing/keyboard exercises. Includes an introduction to jazz chord symbol nomenclature through ninth chords. **Prerequisite:** MUS 107, MUS 107

MUS 110 [D] Musicianship for Non-Majors (2)

Fall: Even Years

Fundamentals of music notation, music reading, and theory. Creative application through composition and performance. Assumes minimal previous musical experience.

MUS 111 [D/6] The Art of Listening (3)

Fall: All Years **Spring:** All Years

Designed for non-majors. An introduction to music appreciation. Introduces the main elements of music, such as melody, harmony, rhythm, timbre, and form. Students will develop a vocabulary to discuss their experience of music. Students will listen to a broad repertory of music examples.

MUS 140 [2] Thinking Musically: Critical Thinking in Multi-musical America (3)

Fall: All Years **Spring:** All Years

This course focuses on critical thinking skills using American music as a means for examining assumptions, arguments and cultural images.

MUS 150A Class Piano (1)

Fall: All Years

Class instruction. Entry level piano course focusing on basic technique, primary chords and harmonizing. Intended for music majors/minors with limited background in applied piano instruction.

MUS 150B Class Piano II (1)

Spring: All Years

Class instruction. Continuation of Mus 150A. Further development of piano technique, physical coordination and independence between the hands. Study of major scales and beginning level standard piano literature. **Prerequisite:** MUS 150A

MUS 150C Class Piano III (1)

Fall: All Years **Spring:** All Years

Small group piano instruction. Continuation of Mus 150B. Study of beginning level classical repertoire, technique, and skills related to the Piano Proficiency examination. **Prerequisite:** MUS 150B

MUS 150D Class Piano IV (1)

Spring: All Years

Small group piano instruction. Continuation of Mus 150C. Study of beginning/intermediate level classical repertoire, technique, and skills related to the Piano Proficiency examination. **Prerequisite:** MUS 150C

MUS 151 Basic Commercial Keyboard (1)

Fall: All Years **Spring:** All Years

Small group keyboard instruction. Study of beginning/intermediate level popular repertoire, technique, and skills related to the Music Industry/Jazz portions of the Piano Proficiency requirements. **Prerequisite:** MUS 150C

MUS 152 Class Voice (1)**Fall:** All Years

Class instruction. Designed for students with limited background in applied voice instruction. May be repeated for credit.

MUS 154 Music Performance: Voice: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 155A Music Performance: Piano: Level 1 (1)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 155B Music Performance: Organ:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 155C Music Performance: Harpsichord:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 155J Jazz Piano (1-2)**Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 156A Music Performance: Trumpet:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 156B Music Performance: Horn:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 156C Music Performance: Trombone:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 156D Music Performance: Euphonium:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 156E Music Performance: Tuba: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 157A Music Performance: Flute: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 157B Music Performance: Oboe: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 157C Music Performance: Clarinet:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 person) instruction and master classes. May be repeated for credit.

MUS 157D Music Performance: Bassoon:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 person) instruction and master classes. May be repeated for credit.

MUS 157E Music Performance: Saxophone:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 158A Music Performance: Violin: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 158B Music Performance: Viola: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 158C Music Performance: Cello: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 158D Music Performance: Bass: Level 1 (1-2)**Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 158E Music Performance: Acoustic Guitar:**Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 158F Music Performance: Electric Guitar:**Level 1 (1-2)**

Fall: All Years **Spring:** All Years
Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 159 Music Performance: Percussion:**Level 1 (1-2)**

Fall: All Years **Spring:** All Years
Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

MUS 170 Composition - Level I (1)

Fall: All Years **Spring:** All Years
Individual and/or small group instruction. May be repeated for credit. **Prerequisite:** MUS 107

MUS 191 Diction (2)

Fall: Odd Years
Instruction for voice students in the proper pronunciation of English, Liturgical Latin, Italian, German and French for solo song and choral singing. Introduction to the International Phonetic Alphabet for notation of speech sounds.

MUS 207 Theory and Ear Training III (3)

Fall: All Years
This course will focus on ear-training, sight-singing, diatonic harmony, beginning chromatic harmony, part-writing, and form and analysis.
Prerequisite: MUS 107, MUS 108

MUS 208 Theory and Ear Training IV (3)

Spring: All Years
This course will focus on ear-training, sight-singing, chromatic harmony, part-writing, and form and analysis. **Prerequisite:** MUS 207

MUS 209 Survey of Non-Western Music (2)

Spring: All Years
An introduction to music outside of Western European tradition. Selected reading and listening materials from these areas/cultures are surveyed: African, Indian, the Far East, Indonesian, American Indian, Latin American, Middle East, and Eastern Europe. Study focuses on similarities and differences in musical style and cross influences between the various repertoires. **Prerequisite:** MUS 108

MUS 210 [D1] Survey of Western Music (3)

Fall: All Years
Designed for non-majors. A historical approach to music literature. The study of composers and musical styles of Western music from 1600 to present. MUS 111 is recommended as a preliminary course.

MUS 215 [D1] History of Jazz (3)

Fall: All Years
Designed for non-majors. A survey of the development of jazz from its roots through the contemporary period. Emphasis will be placed on stylistic changes. Music 111 is recommended as a preliminary course.

MUS 216 [F] World Music Survey (3)

Spring: All Years
Designed for non-majors. An introduction to the varied music repertoires of the world. Similarities to and differences from Western musical culture will be noted, as well as cross influences between the repertoires. **Prerequisite:** MUS 111

MUS 217 [D] Pop/Rock Music for Non-Majors (3)

Fall: All Years
Designed for non-majors. Survey of pop/rock music from 1956 to the present. Emphasis placed on identifying styles and songwriting techniques of various musicians.

MUS 218 [D] Electronica: The Influence of Music and Technology (3)

Spring: All Years
A historical survey of music, primarily of the 20th Century (and beyond), as driven by technological developments. Topics include music created for experimental instruments such as the Theremin and voltage-controlled synthesizers as well as commercial products such as the electric guitar, the multi-track recording studio, digital samplers, and so forth. The aim is to provide a wider perspective by which cross-influences can be seen between innovators such as Varese or Stockhausen and artists such as The Beatles, Aphex Twin, or Radiohead. Listening strategies will be introduced, and production techniques will be discussed and demonstrated.

MUS 219 Singing Skills for Musical Theatre (1)

Fall: Even Years
Designed for theatre students. Principles of body alignment and breathing, vocal exercises, and diction. May be repeated for credit.

MUS 231 Methods for Teaching Woodwinds I (1)

Fall: Odd Years
Methods and materials for teaching individual woodwind instruments in the public schools. Focus on clarinet and saxophone.

MUS 232 Methods for Teaching Woodwinds II (1)**Spring:** Odd Years

Methods and materials for teaching individual woodwind instruments in the public schools. Focus on flute, oboe, and bassoon.

MUS 233 Methods for Teaching Brass**Instruments (1)****Fall:** Even Years

Methods and materials for teaching individual brass instruments in the public schools.

MUS 234 Methods for Teaching String**Instruments (1)****Spring:** Even Years

Methods and materials for teaching individual string instruments in the public schools.

MUS 235 Methods for Teaching Percussion (1)**Fall:** Odd Years

Methods and materials for teaching individual percussion instruments in the public schools.

MUS 236 Guitar for General Music (1)**Fall:** All Years

Fundamentals of guitar playing for use in the general music programs in the public schools.

MUS 240 [D1/7] American Music (3)**Spring:** All Years

Historical survey of music in the United States, including folk, popular and art music of the African American, Latino, Native American and European traditions.

MUS 250 Jazz Improvisation (1)**Fall:** All Years

An introduction to jazz improvisation with an emphasis on small group performance techniques. Related materials include modal harmony, 12 bar blues, form, standard popular song form, and an introduction to jazz theory and related chord scales.

Prerequisite: MUS 108**MUS 251 Commercial Applied Voice (1-2)****Fall:** Odd Years

Class instruction and recording studio experience in commercial singing styles, techniques, etiquette and vocal health. **Prerequisite:** MUS 154

MUS 252 Advanced Jazz Improvisation (2)**Spring:** Odd Years

This course will continue the concepts presented in MUS 250 as well as introduce the student to advanced chord/scale relationships. The course will also explore the classic small group jazz repertoire of the late 40's, 50's, and early 60's. **Prerequisite:** MUS 250

MUS 254 Music Performance: Voice: Level 2 (1-2)**Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 255A Music Performance: Piano: Level 2 (1-2)**Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit. Students must complete the piano proficiency exam prior to enrolling in this class.

MUS 255B Music Performance: Organ:**Level 2 (1-2)****Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 255C Music Performance: Harpsichord:**Level 2 (1-2)****Fall:** On Demand

Individual instruction and master classes. May be repeated for credit.

MUS 255J Jazz Piano (1-2)**Fall:** All Years**Spring:** All Years

Individual instruction and master classes. Students must complete the piano proficiency exam prior to enrolling in this class. May be repeated for credit.

MUS 256A Music Performance: Trumpet:**Level 2 (1-2)****Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 256B Music Performance: Horn:**Level 2 (1-2)****Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 256C Music Performance: Trombone:**Level 2 (1-2)****Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 256D Music Performance; Euphonium:**Level 2 (1-2)****Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 256E Music Performance: Tuba:**Level 2 (1-2)****Fall:** All Years**Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 257A Music Performance: Flute:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 257B Music Performance: Oboe:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 257C Music Performance: Clarinet:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 257D Music Performance: Bassoon:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 257E Music Performance: Saxophone:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 258A Music Performance: Violin:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 258B Music Performance: Viola:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 258C Music Performance: Cello:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 258D Music Performance: Bass:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 258E Music Performance: Acoustic Guitar:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 258F Music Performance: Electric Guitar:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 259 Music Performance: Percussion:**Level 2 (1-2)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 261 Music Industry Survey I (2)**Spring:** All Years

Part one of a two-semester comprehensive overview of the music industry. Topics are music in the marketplace, songwriting, publishing, copyright, business affairs, licensing, unions and guilds, agents, artist management, concert promotion, music and theater, merchandising, and arts administration. Listed prerequisite can be waived with permission of the instructor. **Prerequisite:** MUS 107

MUS 262 Music Industry Survey II (2)**Fall:** All Years

Part two of a two semester comprehensive overview of the music industry. Topics are the recording industry, record markets, artists' recording contracts, record production, distribution and retailing, studios, environmental music, music in multimedia, jazz and classical music, music in radio, television, film, and advertising, issues in international music.

Prerequisite: MUS 261, MUS 107

MUS 263 The Business of Music (2)**Fall:** On Demand **Spring:** On Demand

The primary focus of this course will be to cover the various facets of the music industry. Through class lectures, handouts, and assigned readings within the text, issues germane to the contemporary music industry will be explored. Outside guests who work within various areas of the music industry will speak to the class. **Prerequisite:** MUS 107

MUS 270 Composition - Level 2 (1-2)**Fall:** All Years **Spring:** All Years

Individual and/or small group instruction. Study includes composition in several musical styles. May be repeated for credit.

MUS 278 Jazz Theory (2)

Fall: Odd Years

A study of the fundamental elements of jazz harmony, melody, and rhythm. Written assignments and ear training. **Prerequisite:** MUS 207

MUS 281 Introduction to Music Technology (2)

Fall: All Years

A primer for incoming students covering the following topics: computer basics (initiation to Macintosh), e-mail, Internet, printing, basics of acoustics and digital audio, introduction to MIDI, music notation software, HTML basics, ear-training and other CAI software.

MUS 291 Individual Projects (1-2)

Fall: All Years **Spring:** All Years

Individualized study in specialized areas in music. May be repeated for credit. **Prerequisite:** MUS 108

MUS 300 Conducting and Instrumentation (2)

Fall: All Years **Spring:** All Years

Development of baton techniques and score reading skills. Understanding the principles of composition and arranging for instruments and voices.

Prerequisite: MUS 307, MUS 305

MUS 303 Western Traditions to 1750 (3)

Fall: All Years

Historical survey of European music of the Medieval, Renaissance and Baroque periods with focus on styles, genres and historical context. To be taken concurrently with Theory II. **Prerequisite:** MUS 108

MUS 304 Western Traditions: 1750-1900 (3)

Spring: All Years

Historical survey of European and American art music from 1750-1900, encompassing the Classical and Romantic periods in Europe and American music from Billings to Beach. Focus will be on styles, genres and historical context. To be taken concurrently with Theory III.

Prerequisite: MUS 207, MUS 303

MUS 305 [D1] Western Traditions Since 1900 (3)

Fall: All Years

Historical survey of European and American music from 1900 to the present with focus on styles, genres and historical context. To be taken concurrently with Theory IV. **Prerequisite:** MUS 208, MUS 304

MUS 307 Theory and Ear Training V (3)

Fall: All Years

This course will focus on set theory, 12 tone/serial music, centric strategies, parametric analysis, and perceptual analysis.

Prerequisite: MUS 208, MUS 304

MUS 319 Music for Classroom Teachers (3)

Fall: All Years **Spring:** All Years

Basic musicianship skills and theory developed through vocal, keyboard, and recorder experiences. Examination of teaching methods and materials, learner outcomes and assessment. Required for elementary education majors. Not intended for music majors or minors.

MUS 328 [D] Ensemble for Majors (1)

Fall: All Years **Spring:** All Years

Required for music majors. Preparation and public performance of musical works appropriate for the specific ensembles listed: Concert Band, Festival Mixed Choir, Festival Women's Choir, Wind Ensemble, Jazz Ensemble, Concert Choir, Chamber Singers, Vocal Jazz Ensemble, Orchestra, Collegium Musicum (Early Music), Opera Workshop, Tri-College Percussion Ensemble, Small Commercial Ensemble, Jazz Combo, New Music Ensemble, and Chamber Music. (All ensembles require audition except Concert Band, Festival Mixed Choir and Festival Women's Choir.)

MUS 329 A-H [D] Ensemble Performance Class (1)

Fall: All Years **Spring:** All Years

Preparation and public performance of musical works appropriate for the specific ensembles listed: Concert Band, Festival Mixed Choir, Festival Women's Choir, Wind Ensemble, Jazz Ensemble, Concert Choir, Chamber Singers, Vocal Jazz Ensemble, Orchestra, Collegium Musicum (Early Music), Opera Workshop, Tri-College Percussion Ensemble, Small Commercial Ensemble, Jazz Combo, New Music Ensemble, and Chamber Music. (All ensembles require audition except Concert Band, Festival Mixed Choir and Festival Women's Choir.)

MUS 333 Teaching General Music K-12 (3)

Fall: All Years

Administration of the public school K-12 general music curriculum. Study of teaching methods and materials, learner outcomes and evaluation procedures. Required of both vocal and instrumental education majors. The course must be taken no more than three semesters before the student teaching semester.

MUS 334 Secondary School Choral Methods (2)

Spring: All Years

Administration of the high school vocal music program. Study of objectives and evaluation procedures, teaching methods and materials. This course must be taken no more than four semesters before the student teaching semester.

MUS 335 Organization of the Instrumental Music Program (1)**Spring:** Odd Years

Administration of the instrumental music program in the public schools. In addition to the listed prerequisite of MUS 300, students must complete any three of these courses (MUS 231, 232, 233, 234, or 235) prior to enrollment in MUS 335.

Prerequisite: MUS 300**MUS 342 History of Rock/Pop Music (2)****Spring:** Odd Years

Historical survey of rock and popular music from 1956 to the present. **Prerequisite:** MUS 207

MUS 343 Jazz History (2)**Spring:** Even Years

Historical survey of American jazz.

Prerequisite: MUS 207**MUS 351 Commercial Keyboards (1)****Fall:** All Years **Spring:** All Years

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.

Prerequisite: MUS 207**MUS 354 Music Performance: Voice: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 355A Music Performance: Piano:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 355B Music Performance: Organ:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 355J Jazz Piano (1-2)**Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 356A Music Performance: Trumpet:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 356B Music Performance: Horn:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 356C Music Performance: Trombone:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 356D Music Performance: Euphonium:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 356E Music Performance: Tuba:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 357A Music Performance: Flute:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 357B Music Performance: Oboe:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 357C Music Performance: Clarinet:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 357D Music Performance: Bassoon:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 357E Music Performance: Saxophone:**Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 358A Music Performance: Violin:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 358B Music Performance: Viola:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 358C Music Performance: Cello:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 358D Music Performance: Bass:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 358E Music Performance: Acoustic Guitar:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 358F Music Performance: Electric Guitar:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 359 Music Performance: Percussion:**Level 3 (1-3)**

Fall: All Years **Spring:** All Years
Individual instruction and master classes. May be repeated for credit.

MUS 363 Music for Film and Multimedia (3)

Fall: All Years **Spring:** All Years

This course will focus on the various aspects of composing sound to picture. Through the use of work prints/student films/multimedia projects, students will score sound to picture utilizing the MSUM film scoring lab. Students will complete a final project which consists of three different film cues or one feature film/multimedia project.

Prerequisite: MUS 381

MUS 364 Survey of Film Music (3)

Fall: All Years

This course will focus on the history and evolution of music for film. Musical examples from historical and contemporary cinema will be examined. Listed prerequisites can be waived with the permission of the instructor. **Prerequisite:** MUS 261, MUS 262

MUS 365 Practicum (1)

Fall: All Years **Spring:** All Years

An on-campus experience in preparation for the music industry internship. To be taken concurrently with or following one of the seminars in music industry. May be taken two times for credit. Listed prerequisites can be waived with the permission of the instructor. **Prerequisite:** MUS 261, MUS 262

MUS 370 Composition - Level 3 (1-3)

Fall: All Years **Spring:** All Years

Individual composition instruction plus seminar with all composition students. Study includes composition in several musical styles. May be repeated for credit.

MUS 375 Instr Conducting (2)

Spring: All Years

Band and Orchestra conducting techniques, rehearsal methods, and score reading. **Prerequisite:** MUS 300

MUS 377 Choral Conducting (2)

Spring: All Years

Choral conducting techniques, rehearsal methods, and score reading, brief survey of literature and introduction to choral arranging.

Prerequisite: MUS 300

MUS 381 Audio Production I (3)

Fall: All Years

Components of a sound system, with studio assignments to familiarize students with these elements. Introduction to microphones, cables, direct boxes, preamplifiers, mixers, processors, amplifiers, loudspeakers. In addition, MIDI sequencing will be covered, along with basic audio editing on the computer. Lectures and listening relating to historical developments in music and technology. Prerequisites can be waived with consent of the instructor.

Prerequisite: MUS 281, MUS 108, MUS 110 or MUS 111 or MUS 218

MUS 382 Digital Audio I (3)**Spring:** All Years

Digital workstation as the central tool for producing music and audio. Topics include: basics of audio and sound systems, digital audio (conversion, sampling, quantization), MIDI, hard-disk recording, sequencing, editing, and mastering. Internet audio will also be covered, including encoding and streaming. Prerequisites can be waived with consent of the instructor. **Prerequisite:** MUS 281, MUS 108

MUS 384 Concert Recording and Sound Reinforcement (2)**Fall:** All Years

A course on stereo and extended recording techniques for concerts and sessions involving voices or ensembles. Sound reinforcement (providing sound systems for live performances) will also be studied. Principles will be presented through readings, recordings, and lectures. Hands-on sessions will provide opportunities for skill acquisition.

Prerequisite: MUS 381**MUS 390 Music Topics (1-3)****Fall:** On Demand**Spring:** On Demand

Special upper division studies in music. Different topics will be chosen for study. May be repeated if topic changes.

MUS 391 Writing Seminar in Music (1)**Spring:** All Years

Seminar focused on writing about music in various forms, including research papers and program notes.

Prerequisite: MUS 305**MUS 421 Ensemble Performance Class (1)****Fall:** All Years**Spring:** All Years

Preparation and public performance of musical works appropriate for the specific ensembles listed: Concert Band, Festival Mixed Choir, Festival Women's Choir, Wind Ensemble, Jazz Ensemble, Concert Choir, Chamber Singers, Vocal Jazz Ensemble, Orchestra, Collegium Musicum (Early Music), Opera Workshop, Tri-College Percussion Ensemble, Small Commercial Ensemble, Jazz Combo, New Music Ensemble, and Chamber Music. (All ensembles require audition except Concert Band, Festival Mixed Choir and Festival Women's Choir.) For Music Majors only. This course may be repeated for credit, and is not part of the performance tuition-waiver sequence.

MUS 423 Accompanying (1)**Fall:** All Years**Spring:** All Years

Preparation and performance of both instrumental and vocal accompaniment repertoire. May be repeated for credit.

MUS 431A Keyboard Pedagogy I (2)**Fall:** Even Years

Fundamentals of keyboard instruction including methods, techniques, and procedures for establishing a private studio.

MUS 431B Keyboard Pedagogy II (1)**Spring:** Odd Years

Practical application of teaching techniques, skills, and procedures studied in Mus 431A.

Prerequisite: MUS 431A**MUS 432 Voice Pedagogy (2)****Fall:** Odd Years

Will include physiology, anatomy, teaching techniques, demonstration models and a practicum. Will focus on social, educational, family and peer pressure that affect the singing standards of the adolescent interested in pursuing vocal performance skills.

MUS 433 Jazz Pedagogy (2)**Spring:** Odd Years

This course will focus on techniques for directing instrumental and vocal jazz ensembles and techniques for teaching the various jazz disciplines. The course will review major jazz texts, periodicals, historical recordings, and resources.

Prerequisite: MUS 250, MUS 300**MUS 440 Music Literature: Solo Song (2)****Spring:** Even Years

Study of solo song literature. Intended for majors and minors in music. **Prerequisite:** MUS 201

MUS 441 Music Literature: Orchestral (2)**Spring:** Even Years

Study of orchestral literature. Intended for majors and minors in music. **Prerequisite:** MUS 207

MUS 442 Music Literature: Choral (2)**Fall:** Even Years

Study of choral literature. Intended for majors and minors in music. **Prerequisite:** MUS 207

MUS 443 Music Literature: Chamber Music (2)**Fall:** Even Years

Study of chamber music literature. Intended for majors and minors in music. **Prerequisite:** MUS 207

MUS 444 Music Literature: Keyboard (2)**Fall:** Odd Years

Study of keyboard literature. Intended for majors and minors in music. **Prerequisite:** MUS 207

MUS 445 Music Literature: Wind Band (2)**Fall:** Odd Years

Study of wind band literature. Intended for majors and minors in music. **Prerequisite:** MUS 207

MUS 446 Music Literature: Opera (2)**Spring:** Odd Years

Study of opera literature. Intended for majors and minors in music. **Prerequisite:** MUS 207

MUS 450 Student Recital (1)**Fall:** All Years **Spring:** All Years

Special supplemental applied study in preparation for public recital appearance. May be repeated once for credit. Students must pass the piano proficiency examination prior to enrolling in this course.

MUS 454 Music Performance: Voice: Level 4 (1-3)**Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 455A Music Performance: Piano:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 455B Music Performance: Organ:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 455J Jazz Piano (1-2)**Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 456A Music Performance: Trumpet:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 456B Music Performance: Horn:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 456C Music Performance: Trombone:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 456D Music Performance: Euphonium:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 456E Music Performance: Tuba:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 457A Music Performance: Flute:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 457B Music Performance: Oboe:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 457C Music Performance: Clarinet:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 457D Music Performance: Bassoon:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 457E Music Performance: Saxophone:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 458A Music Performance: Violin:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 458B Music Performance: Viola:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 458C Music Performance: Cello:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 458D Music Performance: Bass:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 458E Music Performance: Acoustic Guitar:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 458F Music Performance: Electric Guitar:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 459 Music Performance: Percussion:**Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)**Spring:** All Years

Seminar covering broad range of current topics related to the music business: professional practices and ethics, legal issues, trends in marketing and management, etc., plus a thorough examination of relevant information resources - books, journals, and periodicals. Listed prerequisites can be waived with the permission of the instructor.

Prerequisite: MUS 261, MUS 262, MUS 365, MUS 381**MUS 463 Projects in Composition for Film and Multimedia (1-2)****Fall:** All Years **Spring:** All YearsIndividual projects center around composing and producing sound for film and multimedia. The class will involve hands-on work with student films or multimedia projects. Some of these projects may be collaborations between composers and filmmakers/multimedia designers. Other projects may include assignments from the instructor. May be repeated for credit. **Prerequisite:** MUS 363**MUS 469 Internship (3-12)****Fall:** All Years **Spring:** All YearsInternship in music-related field. Students must pass the piano proficiency examination prior to enrolling in this course. **Prerequisite:** MUS 261, MUS 262, MUS 365, MUS 461, MUS 381**MUS 470 Composition - Level 4 (1-3)****Fall:** All Years **Spring:** All Years

Individual composition instruction plus seminar with all composition students. Study includes composition in several musical styles. May be repeated for credit.

MUS 471 Orchestration (2)**Fall:** Odd Years

Principles of orchestral writing.

Prerequisite: MUS 300, MUS 208**MUS 472 Instrumental Arranging (2)****Fall:** Even Years **Spring:** Even Years

Arranging for both small and large ensembles.

Prerequisite: MUS 300, MUS 208**MUS 474 Advanced Theory and Analysis (2)****Spring:** Odd Years

Continuation of the study of music through the use of advanced theoretical and analytical techniques. May be repeated for credit.

Prerequisite: MUS 208, MUS 304**MUS 475 Advanced Conducting (2)****Fall:** On Demand **Spring:** On Demand

Continuation of the study of conducting.

Prerequisite: MUS 375 or MUS 377**MUS 481 Audio Production II (2)****Spring:** All YearsEquipment and techniques of electronic audio production, including multi-track recording, microphone techniques, mixing, and use of effects devices. **Prerequisite:** MUS 381**MUS 482 Digital Audio II (2)****Fall:** All YearsContinuation of MUS 382. Topics include: digital synthesis, filtering, processing, mixing, interfaces. Students will work on studio assignments using music software such as Csound, SoundHack, and Max/MSP. **Prerequisite:** MUS 382

MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)

Fall: All Years **Spring:** All Years
Individual projects centered on learning sound reinforcement and concert recording for all types of concert situations. Most of the class will involve hands on work for departmental music productions. Class participants will learn Tonmeister recording techniques and sound reinforcement while using our department's various sound reinforcement systems. Students must be prepared to work at night and off-campus for MSUM Music Department events. May be repeated for credit. **Prerequisite:** MUS 384

MUS 485 Projects in Audio Production (1-2)

Fall: All Years **Spring:** All Years
Individual projects in Audio Production. May be repeated for credit. **Prerequisite:** MUS 481

MUS 486 Projects in Computer Music (1-2)

Fall: All Years **Spring:** All Years
Individual projects in Computer Music. May be repeated for credit. **Prerequisite:** MUS 482

MUS 496 Workshop in Music Education (1-3)

Fall: On Demand **Spring:** On Demand
Special topics in music education. May be repeated for credit if topic varies.

Nursing

NURS 110L Introduction to Professional Nursing (4)

Fall: All Years
Introduction to the profession of nursing and basic nursing concepts and skills.

NURS 112 The Professional Nurse of the Future (2)

Fall: All Years
Professional roles, evidence-based practice, and legal and ethical foundations for accountability.

NURS 120 Adult Health I (4)

Spring: All Years
Provides an understanding of the complexity of the human being and the underlying nursing knowledge and critical thinking skills required to respond to health care needs.
Prerequisite: NURS 110L, NURS 112

NURS 120L Clinical Nursing I (3)

Spring: All Years
Simulated and clinical practice sessions. Emphasis is placed on normal vs. abnormal clinical signs.
Prerequisite: NURS 110L, NURS 112

NURS 220L Family Nursing I (4)

Nursing care of the family unit, including pregnancy, childbirth and care of newborns.
Prerequisite: NURS 120, NURS 120L, NURS 225

NURS 225 Nursing Pharmacology (3)

Spring: All Years
Provides students with basic knowledge and skill to safely administer medications to clients of all ages.
Prerequisite: NURS 112, NURS 110L

NURS 230L Family Nursing II (4)

Nursing care of a child within a family context from infancy through adolescence, including common stressors (both physiological and psychological).
Prerequisite: NURS 120L, NURS 225, NURS 120

NURS 240 Adult Health II (3)

Fall: All Years
Addresses the complexity of the human being underlying nursing knowledge and critical thinking skills. Content includes expanded assessment skills and knowledge, plus the integral role of health promotion, risk reduction and disease prevention.
Prerequisite: NURS 220L, NURS 230L

NURS 240L Clinical Nursing II (2)

Fall: All Years
Clinical course focuses on complex clinical experiences related to the content in Adult Health II. Integrates pharmacology and health assessment content. **Prerequisite:** NURS 220L, NURS 230L

NURS 302 Bridge to BSN Education (3)

Fall: All Years **Spring:** All Years
This on-line course examines professional practice standards and role expectations of baccalaureate level nursing, personal development, teaching-learning process and theoretical concepts of the discipline of nursing. This course is a prerequisite for all other courses in the nursing major for RN-BSN students.

NURS 303L Family Health Nursing (4)

Fall: All Years **Spring:** All Years
This course examines nursing care to the family at all stages of life. Theory will be examined and then applied through family health visiting.

NURS 318 Ethics in Nursing (2)

Fall: On Demand
Ethical theory and decision making in nursing practice.

NURS 340L Psychiatric Nursing: Contemporary Practice (4)**Fall:** All Years

Focus on the understanding of dynamics of human behavior. Promotion of mental health, prevention of mental illness. Specific topics include affective, personality and thought disorders.

Prerequisite: NURS 240, NURS 240L**NURS 347 Transcultural Nursing (3)****Fall:** All Years **Spring:** All Years

This on-line course focuses on the nursing care of a diverse client population, including culturally competent care, with a specific emphasis on those populations increasing in numbers in the Red River Valley of Minnesota and North Dakota.

Prerequisite: NURS 110L, NURS 112 or NURS 302**NURS 348L Public Health Nursing (4)****Fall:** All Years **Spring:** All Years

This on-line course combines the theory base with clinical experiences in nursing care to complex systems and aggregates in the community. Emphasis is placed on the promotion, maintenance and restoration of health and wellness and the prevention of disease. **Prerequisite:** NURS 302, NURS 240L, NURS 340L, NURS 347 or NURS 240

NURS 350 Applied Pathophysiology (4)**Fall:** All Years **Spring:** All Years

Correlation of pathophysiology with signs and symptoms of body dysfunction; analysis of selected adaptive mechanisms that maintain homeostasis; application of learning in clinical experience or simulation. **Prerequisite:** NURS 240, NURS 240L, NURS 340L, NURS 347 or NURS 302

NURS 352 End of Life Nursing Care (3)**Fall:** On Demand **Spring:** On Demand

This on-line course addresses critical aspects of palliative end-of-life nursing care. The course is based on the End-of-Life Nursing Education Consortium (ELNEC) curriculum.

NURS 360L Designing and Managing Nursing Care (2)**Spring:** All Years

Focuses on the professional nurse's role in planning and managing care for groups of clients.

Prerequisite: NURS 240, NURS 240L, NURS 340L, NURS 347**NURS 403 Sexuality: A Nursing Perspective (2)****Fall:** On Demand **Spring:** On Demand

A holistic approach which focuses on fostering healthy sexuality in illness and wellness through effective nursing practice.

NURS 405 Dynamics of Oncology Nursing (2)**Fall:** On Demand **Spring:** On Demand

Covers pathophysiology of cancer and disease complications, detection, treatment, and prevention. Emphasizes holistic health care of person with cancer and explores effect on the nation's health.

NURS 407 Nursing Care of the Person with HIV/AIDS (2)**Fall:** On Demand **Spring:** On Demand

Covers world and local epidemiology, pathophysiology of human immunodeficiency virus (HIV) and opportunistic infections, treatment and care of people with HIV infection and acquired immune deficiency syndrome (AIDS). Includes infection control, ethical issues and public education needs.

NURS 413 Nursing and Health Promotion in Special Populations (2)**Fall:** On Demand **Spring:** On Demand

Health promotion and lifestyle change concepts and strategies are discussed and applied in a nursing framework. Special populations are described and health promotion strategies are adapted for use with these populations.

NURS 420 Gerontological Nursing (2)**Fall:** All Years **Spring:** All Years

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. **Prerequisite:** NURS 220L, NURS 230L, NURS 302 or

NURS 430 Research in Nursing (3)**Fall:** All Years **Spring:** All Years

Introduction to nursing research process and its application in nursing practice.

Prerequisite: NURS 465L, NURS 302**NURS 465L Clinical Nursing III (8)**

Clinical course with a specific focus on caring for clients in specialty settings such as critical care, cardiovascular care, respiratory care, operating room, recovery room and dialysis. Focus also on specific complex problems such as cardiac and respiratory system problems, neurotrauma, cancer, pain management and multisystem stressors.

Prerequisite: NURS 348L, NURS 350, NURS 360L

NURS 470 Leadership and Professional Issues (2)**Fall:** All Years **Spring:** All Years

In this on-line course, students will explore the leadership behaviors and organizational structures that enhance the delivery of client care. A major emphasis will be on the critical role of the interdisciplinary approach to delivery of high quality accessible health care. **Prerequisite:** NURS 465L or NURS 302

NURS 474 Nursing Preceptorship Seminar (1)**Fall:** All Years **Spring:** All Years

This seminar course is the preparation for the capstone course, NURS 475, for the nursing major. It provides an opportunity for synthesis of prior work and educational experiences with present learning. This knowledge is applied in a self-selected area of nursing practice that may occur in a wide variety of settings. In this seminar, in collaboration with a preceptor and a faculty advisor, the student develops their learning contract specific to the student's learning interests and needs.

Prerequisite: NURS 465L or NURS 302**NURS 475L Nursing Preceptorship (4-5)****Fall:** All Years **Spring:** All Years

This clinical course is the capstone course for synthesis of prior work and educational experiences in a student's self-selected area of nursing practice.

Prerequisite: NURS 474**NURS 490 Topics in Professional Nursing (1-4)****Fall:** On Demand **Spring:** On Demand

Study of selected practices, issues and/or problems in health care delivery as they impact the consumer and the nursing profession. Topics change each semester. This course may be repeated when the topic changes.

NURS 497 Independent Study (1-2)**Fall:** On Demand **Spring:** On Demand

Individual intensive study, clinical project or research activity of a nursing issue under guidance of a faculty member. Extends intellectual pursuit beyond regular curriculum.

Paralegal**PARA 125 Introduction to Paralegal (3)****Fall:** All Years **Spring:** All Years

Provides an overview of the paralegal profession and the legal system to assist students in their career decision making process.

PARA 250 Legal Research and Writing I (3)**Fall:** All Years

A general introduction to recorded sources of the law and where and how it is to be found. Specific sources will be discussed and facilitated through practical writing exercises. Enrollment in this course requires the completion of, or concurrent enrollment in, PARA 125. **Prerequisite:** PARA 125

PARA 251 Legal Research and Writing II (3)**Spring:** All Years

Continuation of Legal Research and Writing sequence. Students will develop skills in legal issue identification, analysis and research through progressively more complex exercises, including preparation of legal memoranda.

Prerequisite: PARA 250**PARA 310 Civil Procedure I (3)****Fall:** All Years

The substantive and procedural law of civil litigation, with emphasis on the Rules of Civil Procedure, in both state and federal court systems.

Prerequisite: PARA 250**PARA 320 Family Law (3)****Fall:** All Years

The law of domestic relations, including marriage, separation, divorce, annulment, adoption, custody, and other topics. **Prerequisite:** PARA 250

PARA 321 Employment Law (3)**Fall:** On Demand **Spring:** On Demand

An exploration of the legal nature of the employment relationship including contract and liability issues and major stages of the employment relationship, including hiring, evaluation and termination.

Coverage includes antidiscrimination law and the Family and Medical Leave Act.

PARA 325 Interviewing (3)**Fall:** All Years **Spring:** All Years

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: PARA 250**PARA 331 Debtor-Creditor and Bankruptcy Law (3)****Fall:** All Years

The study of law relating to the extension of credit, collection of debts, debtors' and creditors' rights, and bankruptcy, including liquidation, business reorganizations, and adjustment of debts.

Prerequisite: PARA 250

PARA 340 Evidence (3)**Fall:** All Years

A study of the substantive and procedural law of evidence in civil and criminal litigation.

Prerequisite: PARA 251**PARA 346 Public Benefits (3)****Fall:** All Years

A study of the substantive and procedural law of government benefit programs, including Supplemental Security Income, workers compensation, unemployment compensation, and Social Security Retirement and Disability insurance.

Prerequisite: PARA 250**PARA 375 Legal Ethics (3)****Spring:** All Years

The study of law governing the professional ethics of attorneys with emphasis on the Rules of Professional Conduct and their implications for paralegals.

Prerequisite: PARA 250**PARA 380 Real Property Law (3)****Spring:** All Years

The law dealing with interests in, ownership and leasing of, and title to real estate. Emphasis is also placed on official descriptions, systems for recording, and procedures and documents used for the sale or transfer, lease, and zoning of real property.

Prerequisite: PARA 250**PARA 390 Topics in Paralegal Studies (1-3)****Fall:** On Demand **Spring:** On Demand

This is a topical course and topics covered may vary. The course is repeatable when the topic varies.

PARA 405 Probate and Estate Planning (3)**Spring:** All Years

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:** PARA 250, PARA 446

PARA 410 Civil Procedure II (3)**Spring:** All Years

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: PARA 250, PARA 310**PARA 416 Elder Law (3)****Spring:** All Years

A study of the various public benefits programs that provide economic maintenance and financing of health care for the elderly, including medical assistance and Medicare. Special concerns in legal representation of the elderly. An exploration of the laws regarding self-determination and planning for incapacity. **Prerequisite:** PARA 250

PARA 420 Criminal Litigation (3)**Spring:** All Years

A practice-oriented study of the procedures, documents, and techniques in criminal law cases. Emphasis on the preparation, organization, and management of criminal litigation documents and materials; discovery; interviewing and investigation; trial preparation; assistance at trial and other proceedings; and post-conviction relief.

Prerequisite: PARA 340, CJ 335**PARA 425 Advanced Legal Research and Writing (3)****Fall:** All Years**Spring:** All Years

Integration and application of methods and techniques of legal research and writing, building on and supplementing skills acquired in PARA 250 and 251. Preparation of complex legal memoranda and briefs.

Prerequisite: PARA 325, PARA 251, PARA 375**PARA 430 Administrative Advocacy (3)****Spring:** All Years

Techniques and procedural rules involved in the non-lawyer representation of clients before administrative hearing bodies. Overview of basic public benefit programs and procedures.

Prerequisite: PARA 250, PARA 346**PARA 435 Personal Injury (3)****Spring:** All Years

A study of the procedural and substantive law of personal injury, including negligence, products liability, strict liability, and insurance.

Prerequisite: PARA 310, PARA 250**PARA 446 Estate, Gift and Trust Taxation (3)****Fall:** All Years

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of estate planning. Same as ACCT 446. **Prerequisite:** PARA 250

PARA 469 Internship (4-12)

Fall: All Years **Spring:** All Years
 Internship experience under supervision of an attorney as approved by program internship coordinator. Students must complete the prerequisites and two courses from your area of emphasis prior to enrolling in PARA 469. **Prerequisite:** PARA 251, PARA 325, PARA 375, PARA 310

PARA 470 Government Benefits (3)

Fall: All Years **Spring:** All Years
 This course will provide non-paralegal majors with a brief overview of a variety of federal and state public assistance health care and income maintenance programs including: Social Security, Supplemental Security Income, Food Stamps, Temporary Assistance to Needy Families, Minnesota Family Investment Program, Medical Assistance, Medicare, and North Dakota's Training, Education, Employment and Management.

PARA 497 Problems in Law (1-3)

Fall: On Demand **Spring:** On Demand
 Individual research or study under supervision of program director or other approved faculty. Students must have completed at least one methods course prior to enrolling in PARA 497.
Prerequisite: PARA 251

Personal Development

PDEV 100 Intermediate Algebra (3)

Fall: All Years **Spring:** All Years
 Exponents, algebraic fractions, polynomials, functions, graphing lines, linear and quadratic equations, systems of equations, radicals, linear inequalities, absolute value equations and inequalities. This course consists of two hours of lecture and two hours of laboratory work per week.

PDEV 101 Assertiveness Training (1)

Fall: All Years **Spring:** All Years
 Designed to enable students to learn their interpersonal rights and responsibilities, to discriminate between assertive, aggressive and submissive behavior and to acquire a set of assertive skills that, by definition, maintain the dignity of the parties involved.

PDEV 103 Career Development and Career/Life Planning (1)

Fall: All Years **Spring:** All Years
 Enables students to learn more about self and the world of work, and to develop career decision-making skills.

PDEV 105 Emotional Intelligence (1)

Fall: All Years **Spring:** All Years
 Research indicates that ultimate success in your career depends on your ability to manage your and others' emotions. Assess your emotional intelligence, exploring your emotional self-awareness, relationships, adaptability, stress tolerance, and optimism. Identify ways to improve your Emotional IQ.

PDEV 108 Stress Management (1)

Fall: All Years **Spring:** All Years
 Study of the causes and effects of stress plus a survey of specific skills for reducing or preventing effects. Application for university students will be emphasized.

PDEV 111 College Academic Success Strategies (1)

Fall: All Years **Spring:** All Years
 Both beginning and already established students will learn successful methods to take better notes, combat test anxiety, improve memory, and read more efficiently in this course that increases self confidence as it betters study techniques.

PDEV 190 Special Topics in Personal Development (1-3)

Fall: All Years **Spring:** All Years
 Selected topics in personal development. Designed to address a variety of needs related to interpersonal relationships and communication. Course may be repeated since subject matter changes.

PDEV 204 Dale Carnegie Course (3)

Fall: On Demand **Spring:** On Demand
 The Dale Carnegie course strengthens human relations skills and communication skills. Participants practice the material by applying it to their personal and professional lives and then deliver two-minute reports weekly. Controlling stress and worry, developing self-confidence and enhancing leadership skills are also focuses of the course.

PDEV 207 The Seven Habits of Highly Effective People (2)

Fall: All Years **Spring:** All Years
 Based on the book by the same title, this course is an in-depth exploration of fundamental principles of personal effectiveness and inter-personal leadership, and the application of those principles in personal and working relationships.

PDEV 310 Senior Year Experience (1)

Fall: All Years **Spring:** All Years
 Senior Year Experience (SYE) is intended to address issues specifically related to a MSUM senior's transition from student to professional. By drawing upon both campus and community resources for course facilitation and carefully designing course curriculum to match relevant concerns, the SYE program is an engaging opportunity for seniors to reflect upon their MSUM experience and become productive and confident MSUM alumni.

Physical Education

PE 100 Aerobic Dance (1)

Fall: All Years **Spring:** All Years
 This course provides instruction in the principles of aerobic exercise and requires participation in daily aerobic dance routines designed to develop aerobic fitness and rhythmic skills.

PE 102 Weight Training I (1)

Fall: All Years **Spring:** All Years
 This course is designed for students who have limited weight training experience. Weight training principles, exercises, terminology, safety and etiquette are presented and students participate in a weight training program.

PE 103 Weight Training II (1)

Fall: On Demand **Spring:** On Demand
 This course builds on the basic weight training principles introduced in PE 102. Advanced weight training programs and systems are covered and implemented.

PE 104 Exercise and Body Development (1)

Fall: On Demand **Spring:** On Demand
 This course is designed to teach the knowledge, activities, and skills necessary to develop a comprehensive physical fitness program focusing on flexibility, strength and aerobic development.

PE 105 Jogging (1)

Spring: All Years
 This course is designed to allow the student to experience a significant increase in their cardiorespiratory endurance which will be reflected by (1) a lower resting heart rate, and (2) the ability to run longer distances in decreasing amounts of time.

PE 106 Personalized Physical Education (1)

Fall: On Demand **Spring:** On Demand
 This course is designed for students who have an existing condition which precludes participation in a regular physical education class. It is customized by the instructor to meet the particular physical education needs of the student.

PE 107 Personal Defense (1)

Fall: All Years **Spring:** All Years
 This course provides instruction in recognizing, avoiding, and responding to threats to personal safety. Personal defense terminology and multiple personal defense techniques involving physical contact and falling are emphasized.

PE 108 Racquetball (1)

Fall: All Years **Spring:** All Years
 This course is designed for the beginning racquetball player and provides instruction in basic skills, terminology, rules and strategies.

PE 109 Walking Fitness (1)

Fall: On Demand **Spring:** On Demand
 Walking Fitness is an activity course designed to help participants learn about the benefits of walking, explain how walking can be a part of a safe and realistic fitness plan, and discuss how to maintain or improve their fitness level by walking.

PE 110 Skiing (1)

Spring: On Demand
 This course is designed for the beginning downhill skier. Students receive instruction in the terminology, equipment, etiquette, safety and basic skills for downhill skiing.

PE 112 Bowling (1)

Fall: All Years **Spring:** All Years
 This course is designed for the beginning bowler. Students receive instruction in the basic skills of bowling, terminology, rules, strategy and scorekeeping.

PE 114 Golf (1)

Spring: All Years
 This course is designed to improve the beginning golfer's skills and knowledge of rules, terminology, equipment, etiquette and strategy in golf.

PE 116 Tennis I (1)

Fall: All Years **Spring:** All Years
 This course is designed for the beginning tennis player. It focuses on developing ground strokes, the serve, and understanding of tennis terminology, rules, etiquette and basic singles and doubles strategies.

PE 117 Tennis II (1)**Fall:** On Demand **Spring:** On Demand

This course is designed for intermediate tennis players who have dependable ground strokes and consistent first and second serves. The course focuses on improving basic strokes, developing advanced strokes, and advanced singles and doubles strategies.

PE 118 Handball (1)**Fall:** On Demand **Spring:** On Demand

This course is designed for beginning handball players. Students learn the basic skills, terminology, etiquette, and rules of handball.

PE 120 Tae Kwon Do I (1)**Fall:** All Years **Spring:** All Years

Tae Kwon Do is a 2,000 year old Korean style of martial arts. Students are introduced to the various kicks, blocks, combinations, one steps, and self-defense techniques that make Tae Kwon Do the most popular form of self defense in the world.

PE 121 Tae Kwon Do II (1)**Fall:** All Years **Spring:** All Years

Tae Kwon Do II continues the student's studies into the Korean Martial Art of Tae Kwon Do. During the course of this class, students will be introduced to more advanced techniques ranging from kicks and striking to tournament techniques and experiences.

Prerequisite: PE 120**PE 122 Archery (1)****Fall:** On Demand **Spring:** On Demand

This course is designed to develop basic archery skills and an overall appreciation of the sport. Terminology, safety procedures, equipment and types of archery competition are covered.

PE 124 Badminton (1)**Fall:** All Years **Spring:** All Years

This course is designed to teach students basic skills in badminton. Instruction focuses on strategies and rules used in both singles and doubles competitions.

PE 130 Volleyball I (1)**Fall:** All Years

This course is designed for students who have limited volleyball experience. Instruction and practice focuses on the pass, overhead pass, serve, spike, rules, terminology and basic offensive and defensive match play.

PE 131 Volleyball II (1)**Fall:** All Years

This course is designed for the students who are proficient in fundamental volleyball skills. Emphasis is placed on multiple offenses and advanced defensive strategies. Prerequisite can be waived by the consent of the instructor. **Prerequisite:** PE 130

PE 132 Basketball (1)**Spring:** On Demand

This course is designed for the beginning basketball player. Students learn the fundamentals of basketball including passing, shooting, dribbling, rebounding, defense and strategy.

PE 133 Softball (1)**Fall:** On Demand **Spring:** On Demand

This course is designed to develop softball skills appropriate for the recreational player. Hitting, fielding, pitching, rules and basic strategy are covered.

PE 134 Soccer (1)**Fall:** All Years

This course is designed to provide instruction, practice, and performance opportunities in the basic soccer skills and techniques. Rules, responsibilities of players, team play, and strategies are also covered.

PE 140 American Round and Square Dancing (1)**Fall:** On Demand

This course provides instruction and practice in the basic movements of square dance as outlined by the Sets in Order American Square Dance Society.

PE 141 Folk Dance (1)**Spring:** On Demand

Students learn basic folk dance movement patterns including the two step, schottische, walk, polka, and grapevine as they are used in a variety of dances from different cultures.

PE 142 Country Western Dance (1)**Spring:** All Years

This course is designed to provide students with the knowledge and skills of basic country western dance. Dances will range from a wide historical perspective, progressing to the modern dances of today.

PE 144 Ballroom Dance (1)**Fall:** All Years **Spring:** All Years

Students will learn the basics of leading and following techniques as well as be introduced to swing, waltz, two step and Latin dance.

PE 160 Swimming I (1)**Fall:** All Years **Spring:** All Years

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 Swimming II (1)**Fall:** All Years **Spring:** All Years

This course is designed to improve the aquatic skills of the student by adding to skills learned in the beginning course and improving coordination and stamina.

PE 182 Varsity Weight Training (1)**Fall:** All Years **Spring:** All Years

Strength training program designed for participants in varsity athletics.

PE 190 Topics in Fundamental Activities (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course in fundamental activities. The course may be repeated if content varies.

PE 191 Activities Course: Dance (2)**Spring:** All Years

Designed for physical education majors, this course develops skills and knowledge in folk, square, and ballroom dance.

PE 192 Activities Course: Gymnastics (1)**Fall:** All Years

Designed for physical education majors, this course develops skills and knowledge of rules, terminology, and a practical experience to assist with teaching gymnastics.

PE 193 Activities Course: Elementary School (2)**Fall:** All Years

Designed for physical education majors, this course introduces the student to the elementary school curriculum.

PE 194 Activities Course: Non-Traditional (1)**Fall:** All Years

Designed for physical education majors, this course develops skills and knowledge of rules, strategies, and terminology in a variety of non-traditional activities.

PE 200 Foundations of Physical Education (3)**Fall:** All Years

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 222 Life Guard Training (2)**Spring:** All Years

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.

PE 223 Water Safety Instructor's Course (2)**Spring:** All Years

Train and certify instructor candidates to teach American Red Cross swimming and water safety courses.

PE 240 Physical Education in the Elementary School (2)**Spring:** On Demand

Games, rhythms and other activities recommended for the physical education program in the elementary school.

PE 250 Officiating Football (2)**Fall:** On Demand

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)**Spring:** On Demand

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)**Fall:** On Demand

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 290 Topics in Physical Education (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course in Physical Education. The course may be repeated if content varies.

PE 294 Women and Sport (3)**Fall:** On Demand

A study of women and sport. Historical, sociological and psychological factors are examined. Legislation affecting participation, present status of women and play sport, and future outlook are considered.

PE 310 Sport and Play in the United States (3)**Fall:** All Years **Spring:** All Years

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 (2)**Fall:** All Years **Spring:** All Years

This course is designed to expose students to different learning theories and how to incorporate them into teaching motor skills. Areas of study include theoretical and applied knowledge of the individual, instructional and environmental variables relevant to teaching, learning and performance of various motor activities.

PE 320 Anatomical Kinesiology (3)**Fall:** All Years **Spring:** All Years

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 apply these concepts to real life situations.

PE 321 Human Physiology (3)**Fall:** All Years **Spring:** All Years

This course is designed to study the physiology of the different organ systems of the human body. The course will stress the application of physiological principles related to health and disease.

PE 333 Pool and Waterfront Management (3)**Fall:** On Demand **Spring:** On Demand

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.

PE 350 Mechanical Principles of Sport (3)**Fall:** All Years **Spring:** All Years

The purpose of this course is to study the anatomy of the human musculoskeletal system and the basic mechanical principles that are associated with human motion as they relate to sport skills. Credit is not applicable to a Physical Education major or minor.

PE 351 Physiology of Sport (2)**Spring:** All Years

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 Physical Education (3)**Spring:** All Years

This course is designed to prepare students to 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. The prerequisites can be waived with the consent of the instructor.

Prerequisite: PE 191, PE 192, PE 193**PE 361 Secondary Methods in Physical Education (3)****Fall:** All Years

This course is designed to prepare students to effectively teach physical education activities to student in grades 7-12.

Prerequisite: PE 191, PE 192, PE 193**PE 362 Middle School Methods in Physical Education (2)****Spring:** All Years

Study, demonstration and exploration of methods and techniques of presenting sports, games, and movement skills to middle school students in grades 6-8. Curriculum design and development, as well as techniques for organizing groups will be included. The prerequisites can be waived with the consent of the instructor. **Prerequisite:** PE 191, PE 192

PE 364 Teaching Aerobic Dance (3)**Spring:** All Years

This course provides the information and skills necessary to successfully teach floor aerobics, water aerobics and step aerobics.

PE 365 Health and Fitness Instructor (3)**Spring:** All Years

This course prepares students to meet the competencies established by the American College of Sports Medicine for a health fitness instructor.

PE 371 Coaching Football (3)**Fall:** All Years

This course is intended to help prepare students for coaching high school football. Emphasis is placed on students developing a philosophy concerning all aspects of coaching football.

PE 372 Coaching Basketball (3)**Fall:** All Years

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 and Softball (3)**Spring:** On Demand

This course is designed to teach the skills and knowledge necessary to coach baseball and softball at the youth and secondary school levels.

PE 374 Coaching Track and Field (3)**Spring:** All Years

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)**Spring:** On Demand

This course is designed to prepare students to coach wrestling at the junior and senior high school levels.

PE 376 Coaching Golf and Tennis (3)**Fall:** On Demand **Spring:** On Demand

This course is designed to prepare the student to coach competitive golf and tennis at the junior and senior high school levels.

PE 378 Coaching Swimming and Diving (3)**Fall:** On Demand **Spring:** On Demand

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)**Fall:** All Years

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 (2)**Fall:** On Demand **Spring:** On Demand

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**PE 390 Topics in Physical Education (1-4)****Fall:** On Demand **Spring:** On Demand

This is a topical course in Physical Education. The course may be repeated if content varies.

PE 420 Biomechanics (3)**Fall:** All Years **Spring:** All Years

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. The prerequisite can be waived with the consent of the instructor.

Prerequisite: PE 320**PE 421 Physiology of Exercise (3)****Fall:** All Years **Spring:** All Years

A study of the function of those body systems most directly affected by and involved in exercise. Physiological consideration in human movement such as thermal regulation, 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 and Trends in Physical Education/Athletics (1-3)**Fall:** On Demand **Spring:** On Demand

Issues or trends of major concern in the discipline of Physical Education and athletics. The course may be repeated as content varies.

PE 452 Adaptive Physical Education (3)**Fall:** All Years

This course provides the student with an introductory study to adapted physical education and includes strategies for meeting the needs of student with disabilities in the least restrictive environment.

PE 453 Assessment and Programming in DAPE (3)**Fall:** On Demand **Spring:** On Demand

Prepares Developmental Adaptive specialists to administer a variety of norm and criteria referenced tests, and design age-appropriate learning activities.

PE 454 Curriculum in Developmental Adapted Physical Education (3)**Fall:** On Demand **Spring:** On Demand

Prepares Developmental Adapted specialists to provide direct service to handicapped students, serve as consultants to other physical education teachers, assess motor and physical fitness levels, write individual programs, read and understand research in adapted physical education. **Prerequisite:** PE 452

PE 456L Lab Curriculum and Assessment for Severely Handicapped (1)**Fall:** On Demand **Spring:** On Demand

This course involves application of the functional program philosophy associated with teaching students with severe disabilities. This 30 hour lab course requires students to develop a 'clip board' instructional system for planning, teaching, and evaluating physical education activities.

PE 460 Principles of Coaching (3)**Fall:** All Years **Spring:** All Years

This course is designed to introduce students to the basic principles, philosophies and theories associated with effective coaching. A major emphasis will be placed on coaching philosophy, sport pedagogy, psychological aspects of coaching, and the legal issues involved with coaching.

PE 461 Coaching Practicum (1)**Fall:** All Years **Spring:** All Years

This course is designed to provide students the opportunity to apply the principles and practices of coaching in a junior high or high school environment. The student will be allowed to actively participate in practical coaching experiences under the guidance and supervision of a qualified coach. Should be taken after or concurrently with PE 370's course or PE 460. **Prerequisite:** AT 220

PE 469 Internship (2-12)**Fall:** All Years **Spring:** All Years

Designed to give students an opportunity to gain supervised clinical experiences working with a variety of state and local agencies.

PE 473 Exercise Testing and Interpretation (3)**Fall:** All Years

This course provides instruction in the guidelines and principles of advanced exercise testing and ECG interpretation.

PE 474 Tests and Measurements in Physical Education (3)**Fall:** All Years

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. Students should have Junior status prior to enrolling in this course.

PE 475 Administration of Athletics (2)**Fall:** On Demand

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.

PE 490 Topics in Physical Education (1-4)**Fall:** On Demand **Spring:** On Demand

This is a topical course in Physical Education. The course may be repeated if the topic changes.

PE 495 Administration of Physical Education (3)**Spring:** On Demand

A study of problems, policies and procedures in the administration of physical education.

PE 499 Physical Education Workshop (1-3)

This is a topical workshop and may be repeated when the topic varies.

Philosophy**PHIL 101 [D1/6] Introduction to Western Philosophy (3)****Fall:** All Years **Spring:** All Years

An introduction to Western philosophical thinking and methods through an examination of selected figures and movements from the history of the discipline.

PHIL 102 [7] Philosophies of Human Nature (3)**Fall:** All Years **Spring:** All Years

This course examines multiple philosophical ideas about human existence. In addition to exploring culturally distinct perspectives, we will explore normative consequences and applications regarding basic obligations and attitudes towards others, the environment, and values. Topics typically include Confucianism, Hinduism, Buddhism, Christianity, Existentialism, Aristotleanism, Kantianism, and secular humanism.

PHIL 105 [D] Philosophical Thinking (4)**Fall:** All Years

This course stresses critical reflection about selected philosophical topics from such areas as religion, society, human nature, morality, and knowledge. Major emphasis on development of skills in philosophical writing.

PHIL 110 [E/2] Practical Reasoning (3)**Fall:** All Years **Spring:** All Years

An introduction to critical thinking, with emphasis on understanding the logic of everyday arguments, interpreting the arguments of others, detecting fallacies, and constructing good arguments.

PHIL 115 [D] Contemporary Moral Issues (3)**Fall:** All Years **Spring:** All Years

Application of ethical theories to contemporary moral issues, such as world hunger, punishment, sexual equality, sexual behavior, abortion, the environment, corporate responsibility, and war.

PHIL 120 [F/7] World Religions (3)**Fall:** All Years **Spring:** All Years

Study of beliefs and practices of major religions of the world.

PHIL 220 [D1] Philosophy of Education (3)**Fall:** On Demand **Spring:** On Demand

Historical and critical study of major theories of education, emphasizing competing ideas about the nature, value, and goals of education. Recommended for students planning careers in education.

PHIL 235 [D] Philosophy of Sex and Love (3)**Fall:** On Demand **Spring:** On Demand

Exploration of historical and contemporary sources. Topics may include the nature of sexual acts, perversion, homosexuality, sexual ethics, fantasy, pornography, marriage, the different types of love, and feminist views on sex and love. Same as WS 235.

PHIL 265 [D] Philosophy of Science (3)**Fall:** On Demand **Spring:** On Demand

An examination of traditional and contemporary views of science, emphasizing the nature of scientific inquiry and the relationship between observation and theory. Includes discussion of science as an objective picture of reality, the difference between science and pseudo-science, and the idea of "progress" in science.

PHIL 290 Special Topics in Philosophy (1-3)**Fall:** On Demand **Spring:** On Demand

Topics will be announced in class schedule. Students may register more than once when content varies.

PHIL 300 [D1] History of Ethics (4)**Fall:** On Demand **Spring:** On Demand

A history of ethical theory in Western philosophy. The course will study the works of such philosophers as Plato, Aristotle, Augustine, Locke, Hobbes, Kant, Bentham, and Mill. **Prerequisite:** PHIL 101, PHIL 105 or PHIL 115 or PHIL 311 or

PHIL 301 [D] Philosophy of Religion (3)**Fall:** On Demand **Spring:** On Demand

An examination of religions from a philosophical standpoint. The course will discuss such issues as the existence and nature of God, religious experience, and life after death. **Prerequisite:** PHIL 101, PHIL 105

PHIL 303 [D1] Classical Philosophy (4)**Fall:** All Years

A study of the development of ancient Greek and Roman philosophy, including the Presocratics, Socrates, Plato, Aristotle and such movements as Stoicism, Epicureanism, and Skepticism. Prerequisites: or consent of instructor.

Prerequisite: PHIL 101, PHIL 105**PHIL 304 Medieval Philosophy (3)****Spring:** Odd Years

Study of Western philosophy during the medieval period. The course will typically include study of such philosophers as Augustine, Anselm, and Aquinas.

Prerequisite: PHIL 303**PHIL 305 Modern Philosophy: 17th Century (2)****Spring:** Even Years

Study of Western philosophy in the 17th century, focusing on the metaphysical and epistemological writings of Descartes and Locke. Prerequisites: Students should have taken at least two courses in philosophy or obtain consent of instructor. Prerequisites: or consent of instructor.

PHIL 306 Modern Philosophy: 18th Century (2)**Spring:** Even Years

Study of Western Philosophy in the 18th century, focusing on the metaphysical and epistemological writings of Hume and Kant. **Prerequisite:** PHIL 305

PHIL 307 19th Century Philosophy (3)**Fall:** Even Years

Study of selected major philosophers of the 19th century, such as Hegel, Marx, Kierkegaard, Nietzsche, Schopenhauer and Mill.

Prerequisite: PHIL 306

PHIL 308 Anglo-American Analytic Philosophy (3)**Fall:** On Demand **Spring:** On Demand

A survey and examination of the fundamental issues of analytic philosophy that have shaped the contemporary philosophical landscape of Anglo-American societies. Topics covered will include Early Cambridge Analytic Philosophy, Logical Positivism of the Vienna Circle, Oxford Ordinary Language Philosophy, and Contemporary Analytic Philosophy. Readings will address problems in philosophy of language, epistemology, and metaphysics. Students should have taken at least one previous course in philosophy or obtain the consent of the instructor.

PHIL 309 Continental Philosophy (3)**Fall:** All Years

An investigation of recent trends in European philosophy: areas may include phenomenology, structuralism, post-structuralism, critical and political theory, postmodernism, French feminism. Emphasis will be on how the continental philosophers revolutionize the classic philosophical notions of the self, world, rationality, knowledge, etc.

Prerequisite: PHIL 101 or PHIL 105**PHIL 311 [D] Morals and Medicine (3)****Fall:** On Demand **Spring:** On Demand

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.

PHIL 312 [D] Business Ethics (3)**Fall:** All Years **Spring:** All Years

This course explores the ethical challenges that arise in the business world. The course will begin with a discussion of different normative theories and then applies those theories to areas of concern within the business world. Case studies will be used to illustrate theoretical points with particular situations. This course will develop critical thinking and writing competencies.

PHIL 314 [D] Introduction to Feminist Theory (3)**Fall:** On Demand **Spring:** On Demand

Critical examination of various feminist theories, both historical and contemporary, and of various definitions of sexism. Students will also examine how feminist theory can be applied to various contemporary moral and social issues. Theorists studied may include Mill, de Beauvoir, Frye, and Jaggar. Representative contemporary issues may include women's reproductive rights, prostitution, sexual harassment laws, and marriage and family issues.

PHIL 316 Ethics in the Information Age (3)**Fall:** On Demand **Spring:** On Demand

An introduction to ethical issues associated with the Information Age. A description of what the Information Age is, how it came to be, and what makes it different from the previous age. Study of new ethical issues arising from, or given increased prominence by, the Information Age advances in information collection, storage, retrieval, processing, and dispersion. Ethical issues to be covered include privacy, surveillance, accuracy, free speech, intellectual property, Internet crime, identity theft, spam, information access, information dispersion, and some consequences of data mining and emerging technologies.

PHIL 320 [D] Philosophy of the Arts (3)**Fall:** On Demand **Spring:** On Demand

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. (Same as Art 320.) **Prerequisite:** PHIL 101, PHIL 105

PHIL 340 [E] Symbolic Logic (3)**Fall:** On Demand **Spring:** On Demand

A survey of deductive logic, emphasizing the use of symbolism to interpret and evaluate arguments. Includes propositional and predicate logic.

PHIL 355 [D] Existentialism (3)**Spring:** Even Years

An examination of writings—both philosophical and literary—of representative existentialists, such as Nietzsche, Kierkegaard, Dostoevsky, Heidegger, Sartre, and Camus.

Prerequisite: PHIL 101, PHIL 105 or PHIL 303**PHIL 357 Social and Political Philosophy (3)****Fall:** On Demand **Spring:** On Demand

Investigation of major issues of contemporary social and political philosophy. Topics may include the justification of the state, rights, equality and liberty, the major political ideologies, feminist politics, and critical theory. Listed prerequisites may be waived by prior completion of a 200 or 300 level philosophy course.

Prerequisite: PHIL 101 or PHIL 105 or PHIL 115

PHIL 372 [F1] Dynamics of Prejudice and Oppression (4)

Fall: On Demand **Spring:** On Demand
An examination of philosophical dimensions, dynamics and consequences of prejudices and oppression based on race, class, gender, sexual orientation and ability. Students expected to recognize, critically analyze, and identify both shared and unique structural dimensions of various forms of oppression and discuss potential strategies for dismantling oppression. No more than two credits can be applied to the philosophy major.

PHIL 390 Special Topics in Philosophy (1-4)

Fall: On Demand **Spring:** On Demand
Topics will be announced in semester class schedules. Students may repeat course when content varies.

PHIL 407 Theory of Knowledge (3)

Fall: On Demand **Spring:** On Demand
Study of basic problems of theory of knowledge (epistemology) and discussion of contemporary epistemological theories. Topics will include the analysis of knowledge, epistemic justification, foundationalism, coherentism, reliabilism, traditional versus naturalistic epistemology, and skepticism. Students should have taken at least two courses in philosophy or obtain the consent of the instructor.

PHIL 408 Metaphysics (3)

Fall: On Demand **Spring:** On Demand
Study of major issues of contemporary metaphysics. Topics will include substance and properties, identity and persistence, necessity and possibility, essence and essentialism, causation and determinism, and ontology. Students should have taken at least two courses in philosophy or obtain the consent of the instructor.

PHIL 490 Topics in Philosophy (1-4)

Fall: On Demand **Spring:** On Demand
Study of a selected philosophical problem or philosophical movement. Students may register more than once when topic varies. Specific topics will be announced in class schedules. Students should have taken at least two courses in philosophy or obtain the consent of the instructor.

PHIL 492 Major Philosophers (1-3)

Fall: On Demand **Spring:** On Demand
Intensive study of some important figure in the history of philosophy. Students may register more than once when content varies. Students should have taken at least two courses in philosophy or obtain the consent of the instructor.

PHIL 495 Topics in Feminist Theory (3)

Fall: On Demand **Spring:** On Demand
Courses offered under this title will focus on feminist theories as frameworks for work on feminist issues. For specific topic see class schedule. Topics may include Knowledge, Ethics, Ecology, Reproductive Rights and Issues, Self-images and Identity, and Sexuality. Students may register more than once when content varies, but may not repeat the course for more than 6 credits.

Prerequisite: PHIL 101, PHIL 105 or PHIL 314 or

PHIL 497 Independent Study (1-3)

Fall: On Demand **Spring:** On Demand
Intensive independent study of a philosophical problem, major philosopher, or philosophical movement, under the direction and supervision of one or more members of the department. May be repeated to a maximum of 6 credits. No more than 3 credits may be used to fulfill the major requirements.

PHIL 498 Senior Portfolio (1)

Fall: On Demand **Spring:** On Demand
As a capstone requirement for the major, students will submit a portfolio containing (1) four or five papers they have written for philosophy courses; (2) a philosophical self-assessment. See Department Chair for details.

Physics

PHYS 101 [B1] Introduction to Physics (3)

Fall: On Demand **Spring:** On Demand
Introduction to topics in a representative area in physics, such as mechanics, chosen to model how scientists develop and test models or theoretical systems. Material is presented in a guided activity-based format with participants working in cooperative learning groups to investigate relevant knowledge.

PHYS 105 [B] Physics of Music (3)

Spring: All Years
Physical principles governing the production, transmission and reception of musical sound. A background in music is strongly recommended.

PHYS 160 [B1/4L] College Physics I (4)

Fall: All Years
Concepts and principles of elementary physics presented in a guided activity-based format which integrates lecture and laboratory using cooperative group learning techniques. Includes kinematics and mechanics. **Prerequisite:** MATH 143 or MATH 229

PHYS 161 [B1] College Physics II (4)**Spring:** All Years

Concepts and principles of elementary physics presented in a guided activity-based format which integrates lecture and laboratory using cooperative group learning techniques. Includes thermal physics, electromagnetism, and optics.

Prerequisite: PHYS 160**PHYS 190 Topics in Physics (1-3)****Fall:** On Demand **Spring:** On Demand

A study of a specific area of physics.

PHYS 200 [B1] General Physics I (4)**Fall:** All Years

Calculus-based study of general physics presented in a guided activity-based format which integrates laboratory and lecture using cooperative learning techniques. Includes Newton's Laws, work, energy and momentum, harmonic motions, gravitation and wave motion. Students must register concurrently in MATH 261.

PHYS 201 [B1] General Physics II (4)**Spring:** All Years

Calculus-based study of general physics presented in a guided activity-based format which integrates laboratory and lecture using cooperative learning techniques. Continuation of PHYS 200 including electric charges, electric fields, capacitance electric circuits, magnetic fields, electromagnetic induction and an introduction to optics. Students must register concurrently in MATH 262. **Prerequisite:** PHYS 200

PHYS 202 Gen Physics III (3)**Fall:** All Years

Calculus-based study of general physics, and is a continuation of General Physics II. Topics include physical optics, thermodynamics, and overview of atomic, molecular, and particle physics.

Prerequisite: PHYS 200, PHYS 201, MATH 261, MATH 262**PHYS 290 Special Topics in Physics (1-3)****Fall:** On Demand **Spring:** On Demand

Students may register more than once when topic varies.

PHYS 300 Physics Research (1-3)**Fall:** On Demand **Spring:** On Demand

Student and faculty member will work on a physics project of mutual interest. Course is repeatable, and up to 4 credits may count towards the major.

Prerequisite: PHYS 161 or PHYS 201**PHYS 305 Experimental Physics I (2)****Fall:** On Demand

Study of laboratory techniques and measuring instruments. **Prerequisite:** PHYS 201

PHYS 306 Experimental Physics II (2)**Spring:** On Demand

Study of laboratory techniques and measuring instruments.

PHYS 310 Introduction to Relativistic Physics (2)**Fall:** On Demand **Spring:** On Demand

Topics: principles of relativity, Lorentz transformations, space-time diagrams, energy and linear momentum, and equivalence of energy and rest mass. **Prerequisite:** PHYS 201

PHYS 312 Analog Electronics (3)**Fall:** On Demand **Spring:** On Demand

This course provides a general overview of analog electronics (electrical engineering). The course will cover circuit analysis (DC and AC), explore semiconductor devices (diodes and transistors), analog electronics (operational amplifiers) and timer circuits. Student must have concurrent enrollment in Math 323.

PHYS 315 Physics Seminar (1)**Fall:** On Demand **Spring:** On Demand

Students will be required to read and present journal articles periodically. Students will discuss the physics involved and participate in informal discussions with the faculty and fellow students. Potential topics might include recent discoveries in physics or astronomy, novel experimental techniques or apparatus, novel physical theories, and demonstrations for physics instruction. May be repeated for credit up to three credits for majors, two credits for minors.

Prerequisite: PHYS 160 or PHYS 200**PHYS 322 Elementary Modern Physics (3)****Fall:** Even Years

Topics: special relativity, wave-particle duality, Bohr atom, quantum mechanics, hydrogen atom, many electron atoms, nuclear properties and nuclear reactions. **Prerequisite:** PHYS 201

PHYS 325 Optics (3)**Fall:** On Demand **Spring:** On Demand

This course covers geometrical and physical optics including paraxial theory, interference, diffraction, polarization and optical instruments.

Prerequisite: MATH 366, PHYS 201

PHYS 330 Intermediate Mechanics (4)**Fall:** On Demand **Spring:** On Demand

An advanced unified approach to physical problems: Newton's Laws; 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.

Prerequisite: MATH 366, PHYS 201, PHYS 350**PHYS 342 Introduction to Research (1)****Fall:** On Demand **Spring:** On Demand

The course will prepare students for independent undergraduate research. The students will be introduced to the literature search process, common research techniques, safety aspects, faculty research interests and applications of science in industry.

PHYS 350 Computational Methods for Physical Science (3)**Spring:** All Years

This course introduces students in the physical sciences to basic techniques of data analysis, numerical modeling, and symbolic computation. All topics are covered in relation to specific problems in physics or chemistry. Includes the topics of matrix manipulation, least squares fitting, general curve fitting, numeric integration and differentiation, data smoothing, numeric solution of differential equations, and computer symbolic processes for algebra and calculus. **Prerequisite:** PHYS 200

PHYS 360 Theoretical Acoustics (2)**Fall:** On Demand **Spring:** On Demand

Topics: vibrating systems, wave propagation, acoustical filters, architectural acoustics, microphones, loudspeakers, sound radiation.

Prerequisite: PHYS 201, MATH 366**PHYS 370 Electromagnetic Theory (4)****Fall:** On Demand **Spring:** On Demand

Advanced study of electromagnetism including algebra and calculus of vectors, electrostatics in a vacuum and in dielectric materials, magnetostatics in nonmagnetic and magnetic materials, Maxwell's Equations and electromagnetic waves.

Prerequisite: MATH 366, PHYS 201**PHYS 380 Celestial Mechanics (3)****Fall:** On Demand **Spring:** On Demand

Principles of celestial mechanics, central force motion, two body problem, N-body problem, prediction and determination of orbits, perturbations.

Prerequisite: PHYS 330**PHYS 399 Thermodynamics (3)****Fall:** On Demand **Spring:** On Demand

Elements of classical thermodynamics, kinetic theory and statistical mechanics. **Prerequisite:** PHYS 330

PHYS 410 Astrophysics (3)**Fall:** On Demand **Spring:** On Demand

Mathematical representation and modeling of stellar structure and evolution. Mathematical consideration of nuclear processes and nucleosynthesis. Analysis of white dwarfs, neutron stars, and black holes.

Astrophysics of the interstellar medium and galaxies. In-depth topics will vary depending on the interests of instructor and/or participants.

Prerequisite: PHYS 322**PHYS 430 Quantum Mechanics (3)****Fall:** On Demand **Spring:** On Demand

Application of quantum mechanics to atoms and molecules.

Prerequisite: PHYS 322, PHYS 350, MATH 366**PHYS 440 Secondary Science Teaching Methods (3)****Spring:** All Years

For secondary education students. Material and methods typical to high school physics.

PHYS 442 Middle School Science Methods (1)**Spring:** All Years

Materials, methods and activities appropriate for middle school science classes and laboratories. Junior standing in elementary education (Science Specialty). Must be taken prior to student teaching.

PHYS 455 Senior Project (2)**Fall:** On Demand **Spring:** On Demand

A project involving experimental and/or theoretical research on a physics topic with extensive library research as well. A detailed written report and an oral presentation are required.

PHYS 469 Physics Internship (2-4)**Fall:** On Demand **Spring:** On Demand

Supervised practical work experience at an approved business, industry or workplace where physics principles are utilized.

PHYS 490 Special Topics in Physics (1-3)**Fall:** On Demand **Spring:** On Demand

Students may register more than once when topic varies.

Political Science

POL 105 [C/5] Making Sense of Politics (3)

Fall: All Years **Spring:** All Years

This course is designed to help the citizens of modern society understand the recurring principles, practices, and patterns of politics. Having learned how politics affects our lives every day, students can become informed participants at the local, national, and global levels.

POL 120 [C/5] American National Government and Politics (3)

Fall: All Years **Spring:** All Years

Fundamentals of American political institutions, structures and processes; rights and selected public policies.

POL 160 [C/5] International Relations (3)

Fall: All Years

Nation-state system: the network of economic, political, cultural and technological interdependence; power, diplomacy, intelligence, war and the arms race.

POL 210 Introduction to Political Science (3)

Fall: All Years

An introduction to the major questions of political science and the scientific study of politics. Conceptual development is examined as represented in the major fields of political science.

POL 221 [C] State and Local Government (3)

Spring: All Years

A study of the basic functions, structure, procedures and problems of American state and local government, with an emphasis upon intergovernmental relations.

POL 230 [C] Introduction to the Law (3)

Spring: All Years

The philosophy of law; its social context; justice and its implications; evolution of legal concepts and systems.

POL 265 [F] International Protection of Human Rights (3)

Fall: All Years

This course focuses on the contemporary concern with human rights in its political, social, cultural, and legal contexts. It examines the history, philosophy, and legal foundations of the human rights movement, and how the ideas and context of human rights are realized in different societies.

POL 266 [F] International Terrorism (3)

This course is devoted to understanding the historical roots of modern terrorism and insurgency and to examining the tactics, structures, and targets of international terrorism. It also examines various aspects of counter-terrorism, further trends and prospects, and the role of the media.

POL 270 Model United Nations (2)

Spring: All Years

Designed to acquaint students with rules of both multilateral and bilateral diplomacy. The course teaches students how to negotiate across various cultures. Students will learn "hands-on" application of concepts learned in other Political Science courses. May be taken twice for credit.

POL 290 Introduction to Topics in Political Science (3)

Fall: All Years

Spring: All Years

Examination of an issue at an introductory level. May be repeated as topic varies.

POL 310 Political Science Research Methods (3)

Fall: All Years

Introduction to empirical research in political science; the nature and role of theory, research design, measurement, and the selection and interpretation of inferential statistics.

POL 315 Political Thought (3)

Spring: All Years

Selected reading and analysis of the major ideas and concepts that have influenced the evolution of modern political ideas.

POL 322 Executive and Legislative Process (3)

Fall: Odd Years

Legislative and executive decision-making and organization. Relationships between the two branches and with other parts of government, political parties, and the political process.

POL 324 Political Parties and Interest Groups (3)

Fall: Even Years

This course will examine the role of parties in American politics and the relationship between parties and interest groups which is relatively new to American politics. The course will examine how parties compete with and complement one another. The behavior of parties and interest groups in elections and governance will be examined.

POL 328 The Media and Politics (3)**Fall:** On Demand **Spring:** On Demand

The media's role in politics, including relations between the media and government.

Prerequisite: POL 120**POL 330 The Judicial System (3)****Fall:** On Demand **Spring:** On Demand

The legal institutions, their functions and procedure; the Anglo-American experience; the American judicial system.

POL 332 Constitutional Law I: Institutional Powers and Constraints (3)**Fall:** All Years

This course focuses on the topics of judicial review, separation of powers, federalism, and economic regulation, including commerce and taxation, substantive due process, and eminent domain.

Prerequisite: POL 120**POL 333 Constitutional Law II: Civil Rights and Liberties (3)****Spring:** All YearsThis course focuses on the topics of First Amendment freedoms, including speech, press, expression, assembly, and religion; rights under the Fourth, Fifth, Sixth, and Eighth Amendments; and questions of race, gender, and ethnicity under the Fifth and Fourteenth Amendments. **Prerequisite:** POL 120**POL 335 Criminal Law (3)****Fall:** All Years

Substantive criminal law; development of principles, meaning and applications of criminal law; current issues and institutions.

Prerequisite: ACCT 205 or POL 230 or CJ 200**POL 337 Criminal Procedure (3)****Spring:** All Years

The course will examine contemporary interpretations of the U.S. Constitution's protections for the criminally accused, which are primarily found in the 4th, 5th, 6th, 8th, and 14th Amendments.

Prerequisite: ACCT 205 or POL 230 or CJ 200**POL 340 Public Administration (3)****Spring:** All Years

The structure, operation, and politics of public bureaucracy, and its relations with other actors and institutions in government.

POL 341 Public Policy (3)**Fall:** Odd Years

An examination of the development, implementation, and evaluation of public policy.

POL 350 Comparative Governments of Western Europe (3)**Fall:** On Demand **Spring:** On Demand

Comparative examination of the political systems of Britain, France, Germany, and Italy; trans-national cooperation among them.

POL 352 Political Problems in Developing Countries (3)**Spring:** Even Years

Social and economic conditions affecting political institutions in the developing countries. The Third World in international relations and the political economy of development.

POL 360 American Foreign Policy (3)**Fall:** On Demand **Spring:** On Demand

Analysis of U.S. foreign policy, with an emphasis on decision making and the policy process.

POL 361 International Political Economy (3)**Spring:** All Years

This course will examine the political, economic, and social processes governing international production, trade, and consumption. It includes an examination of the political economy of North-South relations.

POL 363 Public International Law (3)**Spring:** Odd YearsThis course covers the history, codification and progressive development of international public law. It examines issues such as the sources of public international law, legal personality, state responsibility for breaches, judicial and non-judicial remedies, territory, the law of the sea, air and outer space, treaty law, decisions of the ICJ and other international institutions and the role of international law in U.S. courts. **Prerequisite:** POL 120 or POL 160**POL 366 International Conflict Resolution (3)****Spring:** All Years

This course is devoted to understanding and examining the phenomenon of international conflict, and to examining the efforts by nation-states, inter-governmental organizations, and non-governmental organizations to resolve international conflict.

POL 369 International Organizations (3)

Spring: Even Years

This course explores the nature, dimensions and functions of international organizations as a new and multi-faceted phenomenon. It examines the emergence, growth and proliferation of international organizations and the factors that have contributed to this development. It also explores the nature of the international environment, the constraints and opportunities which flow from this environment, the role of an international secretariat, its scope and limitations. It focuses on both intergovernmental and non-governmental organizations.

Prerequisite: POL 120 or POL 160

POL 420 Topics in American Politics (1-3)

Fall: On Demand **Spring:** On Demand

Selected focus on various topics of American political processes and institutions. May be repeated as topic varies.

POL 469 Student Internship (1-10)

Fall: All Years **Spring:** All Years

A maximum of four credits may be used as electives to fulfill the "Major Requirements in Political Science."

POL 490 Topics in Political Science (1-3)

Fall: On Demand **Spring:** On Demand

This is a Senior level topics course and may be repeated as topic varies.

POL 497 Independent Study in Political Science (1-4)

Fall: All Years **Spring:** All Years

Readings, research papers, special projects with the close supervision of a member of the department.

Prerequisite: POL 120, POL 210

Physical Science

PSCI 170 [B1] Physical Science I (3)

Fall: All Years **Spring:** All Years

Activity-based conceptual learning, appropriate to the elementary classroom and to the life-long learning of physical science will be modeled in the course.

Psychology

PSY 113 [C/5] General Psychology (3)

Fall: All Years **Spring:** All Years

Survey of content and methods of modern psychology.

PSY 202 [C] Developmental Psychology (3)

Fall: All Years **Spring:** All Years

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 220 [C] Social Behavior (3)

Fall: All Years **Spring:** All Years

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. Credit not applicable to Psychology major or minor. **Prerequisite:** PSY 113

PSY 231 Psychological Statistics and Methodology I (3)

Fall: All Years **Spring:** All Years

Introduction to research methods in psychology; descriptive and inferential statistics; elementary hypothesis testing. Laboratory included.

Prerequisite: PSY 113

PSY 232 Psychological Statistics and Methodology II (3)

Fall: All Years **Spring:** All Years

Analysis of variance designs; multiple-comparison tests; nonparametric tests; computer applications to statistics. Laboratory included.

Prerequisite: PSY 231

PSY 261 [C] Personality (3)

Fall: All Years **Spring:** All Years

Introduction to the study/explanation of human behavior, motivation and conflict emphasizing personality as viewed by a variety of theorists.

Prerequisite: PSY 113

PSY 265 [C] Health Psychology (3)

Fall: On Demand **Spring:** On Demand

Study of psychosocial influences in health maintenance and prevention of illness. Emphasis is on cognitive-behavioral intervention to promote life-style changes and increase compliance with medical regimens. **Prerequisite:** PSY 113

PSY 290 Topics in Psychology (1-3)**Fall:** On Demand **Spring:** On Demand

This is a lower division topics course and may be repeated when the topic changes.

PSY 293 Field Work in Psychology (1-2)**Fall:** On Demand **Spring:** On Demand

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

PSY 297 Directed Research (1-3)**Fall:** On Demand **Spring:** On Demand

Conduct of research under direct supervision of a faculty member. Emphasis is on experience and learning with regard to research design and analysis.

Prerequisite: PSY 113**PSY 310 [C] Psychology of Women (3)****Fall:** On Demand **Spring:** On Demand

The interacting effects of biology, physiology, and psychology on female development, providing evidence on sex differences and role differentiation.

Prerequisite: PSY 113**PSY 317 Alcoholism and Drug Abuse (3)****Fall:** On Demand **Spring:** On Demand

Informational survey and study of alcoholism and drug abuse, a major health problem with substantive psychological components. The physiological, psychological, and social impact of drugs and their misuses and abuses will be discussed. Students must have earned three credits in psychology courses or have the consent of the instructor.

PSY 320 Social Psychology (3)**Fall:** All Years **Spring:** All Years

Theories and research involving individual's reactions to others. Topics: social perception, attraction, social influence, aggression, social exchange. Students must have earned six credits in psychology courses prior to enrolling in this course.

PSY 323 Industrial/Organizational Psychology (3)**Fall:** On Demand **Spring:** On Demand

Understanding the behavior of individuals at work plus psychology's contribution to their selection, training, evaluation and motivation. Students must have earned six credits in psychology courses prior to enrolling in this class.

PSY 324 [C] Environmental Psychology (3)**Fall:** On Demand **Spring:** On Demand

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. Students must have earned three credits in psychology courses or have the consent of the instructor.

PSY 330 Experimental Psychology (3)**Fall:** All Years **Spring:** All Years

Course emphasizing report writing (APA editorial style), and application of research methodology and statistics. **Prerequisite:** PSY 232

PSY 342 Learning and Memory (3)**Fall:** All Years **Spring:** All Years

A survey of classical and operant conditioning, observational learning, and models of memory storage and retrieval. Students must have earned six credits in psychology courses prior to enrolling in this class.

PSY 345 Physiological Psychology (3)**Fall:** All Years **Spring:** All Years

Basic biological facts and their relationship to behavior. An analysis of the senses, hormonal systems, brain and peripheral nervous system will be included. Students must have earned six credits in psychology courses prior to enrolling in this course.

PSY 348 Cognition and Perception (3)**Fall:** All Years **Spring:** All Years

Study of cognitive and perceptual theories and processes. Students must have earned six credits in psychology courses prior to enrolling in this course.

PSY 390 Topics in Psychology (1-3)**Fall:** On Demand **Spring:** On Demand

This is an upper division topics course and may be repeated when the topic changes.

PSY 402 Child/Adolescent Psychology (3)**Fall:** All Years

Human development from the prenatal period through adolescence. Students must have earned six credits in psychology courses prior to enrolling in this class.

PSY 403 Adulthood and Aging (3)**Spring:** All Years

Discussion of some of the major theoretical approaches and current issues in human development from young adulthood through old age and death. Students must have earned six credits in psychology courses prior to enrolling in this class.

PSY 430 Advanced Experimental Psychology (3)**Fall:** All Years **Spring:** All Years

Course emphasizing the critical discussion of research topics and journal articles of interest to majors, as well as the execution of an independent research project. **Prerequisite:** PSY 330

PSY 455 [C] Psychology of the Arts (3)**Fall:** On Demand **Spring:** On Demand

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. Students must have earned six credits in psychology courses or have the consent of the instructor. Same as ART 455.

PSY 463 Abnormal Psychology (3)**Fall:** All Years

Descriptive and explanatory models are detailed in relation to their relevance to behavior pathology and the prevention of abnormal behavior. Students must have earned nine credits in psychology courses or have the consent of the instructor.

PSY 465 Clinical Psychology (3)**Spring:** All Years

Discussion of techniques of psychotherapy, crisis intervention, interviewing, clinical assessment and prevention of disorder. Emphasis on psychotherapy as a process of understanding. Students must have earned nine credits in psychology courses or have the consent of the instructor.

PSY 469 Student Internship in Psychology (3-12)**Fall:** On Demand **Spring:** On Demand

Placement in a practical setting under appropriate individual or agency and departmental supervision. Students must be psychology majors with at least Junior standing and must have a GPA of 2.5 or higher.

PSY 470 History and Systems of Psychology (3)**Fall:** On Demand **Spring:** On Demand

An overview of the development of psychology from associationism to the present. Schools, fields and areas of psychology are emphasized. Students must have earned nine credits in psychology courses prior to enrolling in this class.

PSY 481 Seminar in Psychology (3)**Fall:** All Years **Spring:** All Years

For majors and advanced students in other areas. Student participation emphasized. Content may vary each semester. Students must have earned nine credits in psychology courses prior to enrolling in this class.

PSY 490 Topics in Psychology (3)**Fall:** On Demand **Spring:** On Demand

Coverage of a topic not central to other courses in the department. Topics will vary depending on the interest of students and faculty. Students must have earned nine credits in psychology courses prior to enrolling in this class

PSY 492 Independent Study (1-3)**Fall:** On Demand **Spring:** On Demand

Individual topical studies of special interest. Course may be repeated.

PSY 497 Undergraduate Research (1-3)**Fall:** On Demand **Spring:** On Demand

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.

Recreation**REC 140 Camping and Outdoor Recreation (2)****Spring:** On Demand

Provides a broad perspective of the aims, purposes and values of camping and outdoor recreation, and provides leadership training for counselors.

Science**SCI 110 [B1] Science Technology and Society (3)****Fall:** On Demand **Spring:** On Demand

The science, the technology and the societal impacts of several contemporary issues will be examined. Topical treatment will include developments related to cancer, polymers, agriculture, and material science. The nature of problems posed by society and the scientific/technological problem solving approaches practiced will be presented. **Prerequisite:** CHEM 102, CHEM 104, BIOL 102, BIOL 104

Speech/Language/Hearing Sciences

**SLHS 101 Introduction to Speech/Language/
Hearing Sciences (2)****Fall:** All Years **Spring:** All Years

The study of the basic processes of speech, language, and hearing, the normal development of speech and language in children, and the major speech, language, and hearing disorders.

SLHS 171 American Sign Language I (3)**Fall:** On Demand **Spring:** On Demand

An introduction to American Sign Language vocabulary and grammar, including issues of nonverbal communication through pantomime and body movement.

SLHS 172 American Sign Language II (3)**Fall:** On Demand **Spring:** On Demand

Continuation of SLHS 171 including communicating personal and family information, giving directions and descriptions, and asking questions.

Prerequisite: SLHS 171**SLHS 201 Phonetics (2)****Fall:** All Years

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.

**SLHS 202 Anatomy and Physiology of Normal
Speech and Hearing (3)****Spring:** All Years

The study of the anatomy and basic physiology of the speech and hearing mechanisms, and the major underlying scientific concepts.

SLHS 204 Language Development (4)**Fall:** All Years

Nature and normal development of cognitive, linguistic and social systems of language in children.

SLHS 271 Introduction to Audiology (4)**Spring:** All Years

The study of audiology as a profession, introduction to acoustics and psychoacoustics, auditory anatomy and physiology, and disorders of the auditory system.

**SLHS 321 Articulation and Phonological
Disorders (4)****Fall:** All Years

The nature, etiology, assessment and treatment of disorders of articulation and phonology.

Prerequisite: SLHS 101, SLHS 201**SLHS 322 Language Disorders in Preschool
Children (4)****Spring:** All Years

The nature, etiology, and clinical management of language disorders in preschool children.

Prerequisite: SLHS 101, SLHS 204**SLHS 343 Clinical Procedures (3)****Fall:** All Years

Basic defining and recording of communication behavior, development of reporting skills to include lesson plans, report writing and conferring and consulting with clients and other professionals. Includes supervised observation of clinical procedures applied to speech, language and hearing disorders.

Prerequisite: SLHS 322, SLHS 321**SLHS 347 Introduction to Augmentative and
Alternative Communication (2)****Spring:** All Years

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 (3)****Fall:** All Years

Clinical and psychoacoustic measurement of hearing. Diagnostic variables related to hearing impairment; practice administering a basic clinical test battery.

Prerequisite: SLHS 271**SLHS 402 Neuroanatomy and Physiology of
Communication (3)****Fall:** All Years

The study of central nervous system anatomy and physiology, with emphasis on communicative processes. **Prerequisite:** SLHS 202

SLHS 421 Voice Science and Disorders (2)**Fall:** All Years

Study of vocal acoustics and physiology and a brief consideration of common pathologies, especially vocal abuse and misuse, and its management and prevention. **Prerequisite:** SLHS 201, SLHS 202

SLHS 424 Fluency Disorders (2)**Spring:** All Years

A study of the nature of fluency disorders with brief consideration of the basics of its management.

Prerequisite: SLHS 202

SLHS 446 Clinical Experience (3)

Fall: All Years **Spring:** All Years
On-campus supervised clinical experience in speech/language pathology or audiology with children or adults. May be repeated. **Prerequisite:** SLHS 343, SLHS 321, SLHS 322

SLHS 448 Program Management in Speech-Language Pathology (2)

Spring: All Years
Program management in speech-language pathology in various clinical settings including public schools, hospitals, and clinics. **Prerequisite:** SLHS 343

SLHS 473 Rehabilitation Audiology (3)

Spring: All Years
A survey of the principles of rehabilitative intervention for hard-of-hearing persons, children through adults. Special emphasis on role of amplification. **Prerequisite:** SLHS 271

SLHS 490 Topical Seminar in Speech/Language/Hearing Sciences (1-3)

Fall: On Demand **Spring:** On Demand
An examination of the literature on a selected topic of current interest.

SLHS 491 Research Applications in SLHS (2)

Fall: All Years
The study and application of research principles and methods in speech-language and hearing sciences. Students may, with departmental permission, substitute another statistics course for the listed prerequisite. **Prerequisite:** MATH 236

SLHS 497 Individual Study (1-3)

Fall: On Demand **Spring:** On Demand
Selected readings or a guided independent research project in some aspect of communication disorders. May be repeated for up to 6 credits.

Sociology

SOC 110 [C/5] Introduction to Sociology (3)

Fall: All Years **Spring:** All Years
Introduces the sociological approach to understanding the structure and dynamics of society. Focuses on socialization, organization, social inequality, institutions, and social change.

SOC 210 [C/5] Social Problems (3)

Fall: All Years **Spring:** All Years
Examines such problems as poverty crime, urban problems, family problems, environmental problems, and war and terrorism. **Prerequisite:** SOC 110

SOC 219 Sociology of Sexual Behavior (3)

Spring: All Years
Examines sociological and social psychological perspectives and research on sexual behavior. Topics include childhood sexual behavior, adolescent sexual behavior, sex and mate selection, marital sex, extramarital sex, and various forms of sexual variation. **Prerequisite:** SOC 110

SOC 220 [C] Social Deviance (3)

Spring: All Years
Theory, research and commentary on the sociology of deviant behavior. **Prerequisite:** SOC 110

SOC 230 [C] Social Psychology (3)

Fall: All Years **Spring:** All Years
Examines the social nature of humanity and the importance of mind, self, and society in the development of human beings. **Prerequisite:** SOC 110

SOC 290 Topics in Sociology (1-3)

Fall: On Demand **Spring:** On Demand
This course will consist of varying topics in the discipline of sociology.

SOC 300 Criminology (3)

Fall: All Years
This course will survey the history of crime in society, including theories, research and commentaries on crime and delinquency. **Prerequisite:** SOC 110, SOC 220

SOC 302 [C] Social Theory (3)

Spring: All Years
Examines major theoretical approaches to the understanding of social structure and change, with special attention to the classical works of Marx, Weber, and Durkheim. **Prerequisite:** SOC 110

SOC 303 Punishment and Prisons (3)

Fall: All Years
This class traces the origins and development of incarceration as the principle response to crime in the U.S. It explores changing punishment practices, reasons offered to justify punishment, and the social organization of contemporary U.S. prisons. **Prerequisite:** SOC 110, SOC 220

SOC 304 Community Corrections (3)

Fall: On Demand **Spring:** On Demand
Sociological analysis of community corrections, emphasizing probation and parole. **Prerequisite:** CJ 200 or SOC 110

SOC 307 Sociology of Courts (3)**Fall:** All Years **Spring:** All Years

Analyzes the criminal court as an organization; the prosecutor, the defense attorney, judges, officers, and professionals as a “work group” with pragmatic goals and working arrangements; and plea negotiations as the ordinary work technique. **Prerequisite:** SOC 110

SOC 308 Social Gerontology (3)**Fall:** All Years

This course introduces students to the field of social gerontology for providing an overview of the significant sociological perspectives, social issues, and empirical social science research pertaining to the phenomenon of aging in society. The main goal of the course is to foster an understanding of aging as a process that is characteristic of both individuals and societies through a focus on social factors that shape the individual’s experience of aging and the consequences of an aging population for social institutions. Same as SW 308. **Prerequisite:** SOC 110

SOC 309 Law and Society (4)**Fall:** All Years **Spring:** All Years

Relationships of law and society; social forces in law making; dynamics of law administration; social, cultural and behavioral effects of law; history and development of the legal profession; analysis of legal language and reasoning. Prerequisite may be waived with the consent of the instructor. Same as CJ 309.

Prerequisite: SOC 302**SOC 310 [F1] Dominant-Subordinate Group Relations (3)****Fall:** All Years **Spring:** All Years

Theoretical, historical and contemporary examination of prejudice, discrimination, and inequalities organized around race, ethnicity, and gender divisions. **Prerequisite:** SOC 110

SOC 311 Sociology of Law Enforcement (3)**Fall:** All Years

Examines the origin, history and development of policing in the U.S. Specific issues such as community relations, organization, discretion, and corruption are explored from an occupational standpoint in policing. **Prerequisite:** SOC 110

SOC 315 [C] Population (3)**Fall:** All Years

Analysis of global, national and local population characteristics and change. Topics include fertility, mortality, aging, migration, refugees, urbanization, population policies, food supply, resources and environment. **Prerequisite:** SOC 110

SOC 320 [C] Sociology of the Family (3)**Fall:** All Years

Examines the theoretical issues and research findings pertaining primarily to American family life. Topics include dating and mate selection, alternatives to traditional marriages, marital structure and interaction, and marital dissolution.

Prerequisite: SOC 110**SOC 322 [C] Urban Sociology (3)****Spring:** All Years

Historical and contemporary analysis of urban organization, life and change including population, community, political economy, culture, urban design and planning from the global to local level.

Prerequisite: SOC 110**SOC 325 [C] Social Movements (3)****Fall:** On Demand **Spring:** On Demand

Analysis of movement origins, ideology, dynamics, organization, challenges and success in creating social change. Theories and case studies of past and current movements, global to local. **Prerequisite:** SOC 110

SOC 330 [C] Sociology of Religion (3)**Fall:** On Demand **Spring:** On Demand

Emphasizes a sociological understanding of religion, magic, myth, patterns of religious organizations, secularization, new religion movements, and other related topics. **Prerequisite:** SOC 110

SOC 333 [C] Sociology of Gender (3)**Spring:** On Demand

Focuses on the social construction of gender and consequences of gender stratification for women and men. Topics may include: gender differences; the concept of “gender role”; gender in the economic, political, and educational institutions; discrimination; and the feminist movement. **Prerequisite:** SOC 110

SOC 350 Methods and Statistics for Social Research (4)**Fall:** All Years **Spring:** All Years

Focus on the logic of science, a survey of basic methodologies, and introduction to descriptive and inferential statistics. **Prerequisite:** SOC 110, SOC 110

SOC 351 Quantitative Methods (3)**Spring:** All Years

This course is a continuation of Sociology 350. The objective of the course is to offer hands-on experience in quantitative research methods and data analysis. Students will design and carry out a research project utilizing quantitative research methods, analyze data using descriptive and inferential statistics, conduct elementary hypothesis testing, and write reports of their findings. Students will gain experience using statistical packages for data analyses on computers.

Prerequisite: SOC 350**SOC 352 Qualitative Methods (3)****Spring:** All Years

This course provides advanced training in qualitative research through an applied approach whereby students carry out an original research project, from the initial conceptualization stage, through data collection and analysis, and writing the report, and presenting the findings. This advanced data analysis course provides training in several qualitative approaches in sociological research, with the central foci on ethnographic observations and depth interviewing. **Prerequisite:** SOC 350

SOC 355 Society and the Ecosystem (3)**Fall:** All Years

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. Will also examine the development of the environmental movement and global environmental issues. **Prerequisite:** SOC 110

SOC 360 [F] Latin American Issues (3)**Fall:** All Years

This course examines social, economic and political development in contemporary Latin America. Topics include economic policies, inequality, politics, the military, revolutionary movements and conflict, status of women, indigenous peoples, Afro-Latins and children, religion, environment, impact of drugs, and human rights. **Prerequisite:** SOC 110

SOC 375 [C] Sociology of Health and Medicine (3)**Spring:** All Years

Social factors in health, illness, and medical care. Topics include the social construction of health/illness, the experience of illness, health professions and organizations, and the health care system.

Prerequisite: SOC 110**SOC 390 Topics in Sociology (1-3)****Fall:** On Demand**Spring:** On Demand

Varying topics from the discipline of sociology.
Prerequisite: SOC 110

SOC 404 Political Sociology (3)**Fall:** On Demand

Examines power in society, with a focus on the United States. It will include a variety of theoretical perspectives in political sociology, including Marxism, elite theories, state-centered theories, and pluralism. Major topics include: theoretical perspectives on power in society, the role of ideology in political power, the distribution of power in society, and political participation.

Prerequisite: SOC 302, SOC 302**SOC 410 Gerontology: Policy and Practice (4)****Spring:** All Years

This course is a writing intensive senior seminar for gerontology majors. Four to six hours a week will involve field experience working in a facility involving elderly care. Two hours a week will involve in-class discussions of the field experience as well as an examination of social policies relating to the elderly, including Social Security, Medicare, the Older Americans Act and Medicaid. Same as SW 410.

Prerequisite: SOC 308**SOC 412 [C] Sociology of Complex Organizations (3)****Fall:** All Years

Analyzes large-scale bureaucratic organizations. Topics include: the characteristics of bureaucracy; the uses of power by organizations; the effectiveness of organizations; and the impact of organizations on societal change. **Prerequisite:** SOC 302

SOC 414 Symbolic Interactionism (3)**Fall:** On Demand**Spring:** On Demand

This seminar deepens and extends the themes and ideas initially introduced in Sociology 230. Current issues in symbolic interactionism as well as application of the perspective to the students' concerns will be emphasized. **Prerequisite:** SOC 220

SOC 416 Violence in the Family (3)**Fall:** Odd Years

Application of the sociological perspective to the following topics: family violence as an emergent social problem; physical and sexual abuse of children; dating, marital, and sibling violence; societal-level "solutions." **Prerequisite:** SOC 320

SOC 418 Sociology of Education (2)**Spring:** On Demand

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. Examination of inequality in education as it applies to specific ethnic groups and social classes will be considered. Same as ED 418. **Prerequisite:** SOC 110

SOC 450 Senior Seminar in Sociology (3)**Spring:** All Years

This is the capstone seminar for sociology majors. Examines some of the most prominent theoretical and substantive issues identified by sociologists. The course will include a major paper and a seminar presentation. **Prerequisite:** SOC 302

SOC 469 Internship in Sociology (1-3)**Fall:** All Years **Spring:** All Years

Credits may not apply to the minimum required for the sociology major.

SOC 490 Topics in Sociology (1-3)**Fall:** On Demand **Spring:** On Demand

Varying topics from the discipline of sociology.

SOC 497 Readings in Sociology (1-3)**Fall:** All Years **Spring:** All Years

A program of advanced readings in some topic under the supervision of an instructor. May be repeated to a maximum of 4 credits.

Spanish

SPAN 101 [E] Beginning Spanish I (3)**Fall:** All Years **Spring:** On Demand

Fundamentals of Spanish. Development of the basic language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Culture and language structure are also important components of the course. Not applicable toward the major or minor in Spanish. (SPAN 101L required in conjunction with this course.)

SPAN 101L [E] Beginning Spanish I Lab (1)**Fall:** All Years **Spring:** All Years

Required lab to accompany SPAN 101. Oral and written practice of Spanish language.

SPAN 102 [E] Beginning Spanish II (3)**Fall:** On Demand **Spring:** All Years

Fundamentals of Spanish. Development of the basic language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Culture and language structure are also important components of the course. Not applicable toward a major or minor in Spanish. (Must also take SPAN 102L)

Prerequisite: SPAN 101**SPAN 102L [E] Beginning Spanish II Lab (1)****Fall:** On Demand **Spring:** All Years

Required lab to accompany SPAN 102. Oral and written practice of Spanish language.

Prerequisite: SPAN 101L**SPAN 121 [7] Introduction to Iberian Culture and Civilization (3)****Fall:** On Demand **Spring:** On Demand

Introduction to the study of Iberian culture and civilization. Iberia is the area now occupied by Spain and Portugal. The course includes historical perspectives, political issues, the arts, and cultural mores among other topics. Students will be engaged in small group activities, debates, and discussions and the course will include contrast and comparison of Iberian culture with that of the U.S. and other nations.

SPAN 122 [7] Introduction to Latin Culture and Civilization (3)**Fall:** On Demand **Spring:** On Demand

Introduction to the study of Latin American culture and civilization. The course includes historical perspectives, political issues, the arts, and cultural mores among other topics. Students will be engaged in small group activities, debates, and discussions and the course will include contrast and comparison of Latin American culture with that of the U.S. and other regions of the world.

SPAN 130 Spanish for Healthcare Professionals I (2)**Spring:** All Years

This course is designed to introduce both non-native speakers of Spanish and those who speak minimal Spanish to conversation that will assist them in communicating with those who need to speak Spanish in the healthcare setting.

SPAN 190 Topics in Spanish Language, Literature, and Culture (1-4)**Fall:** On Demand **Spring:** On Demand

Topics in Spanish language, literature, and culture. May be repeated since content may vary.

SPAN 201 [E] Intermediate Spanish I (3)**Fall:** All Years

Continued practice and review of the fundamentals of listening, speaking, reading, and writing. Classroom emphasis on oral skills. Readings on culture. Language laboratory as required by instructor.

Prerequisite: SPAN 102, SPAN 102L**SPAN 202 [E] Intermediate Spanish II (3)****Spring:** All Years

Continued practice and review of the fundamentals of listening, speaking, reading, and writing. Classroom emphasis on oral skills. Readings on culture. Language laboratory as required by instructor.

Prerequisite: SPAN 201**SPAN 211 [E] Intermediate Spanish Conversation I (3)****Fall:** All Years

The conversational activities and assignments in this intermediate level class are intended to help students become more proficient in speaking Spanish. It may be taken concurrently with Spanish 201.

Prerequisite: SPAN 201**SPAN 212 [E] Intermediate Spanish Conversation II (3)****Spring:** All Years

The conversational activities and assignments in this intermediate level class are intended to help students become more proficient in speaking Spanish. It may be taken concurrently with Spanish 202.

Prerequisite: SPAN 201 or SPAN 211**SPAN 230 Spanish for Healthcare Professionals II (2)****Spring:** All Years

This course is designed to teach Healthcare Professionals who have some background in Spanish advanced conversation that will assist them in communicating with those who need to speak Spanish in the healthcare setting. Listed prerequisite can be waived with consent of instructor.

Prerequisite: SPAN 130**SPAN 290 Topics in Spanish Language Literature, and Culture (1-4)****Fall:** On Demand **Spring:** On Demand

Topics in Spanish language, literature, and culture. May be repeated since content may vary.

SPAN 297 Independent Study in Spanish - Intermediate Level (1-2)**Fall:** On Demand**Spring:** On Demand

Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits. Requires approval by department chair upon presentation of proposal.

Prerequisite: SPAN 201**SPAN 301 [E] Spanish Grammar & Composition I (3)****Fall:** All Years

Intensive study, practice, and review of Spanish grammar, vocabulary, and writing. Transfer students must take a placement exam before entering this course.

Prerequisite: SPAN 202, SPAN 212**SPAN 302 [E] Spanish Grammar & Composition II (3)****Spring:** All Years

Intensive study, practice, and review of Spanish grammar, vocabulary, and writing. Transfer students must take a placement exam before entering this course.

Prerequisite: SPAN 301, SPAN 311**SPAN 311 [E] Advanced Spanish Conversation I (3-3)****Fall:** On Demand**Spring:** On Demand

The conversational activities and assignments in this intermediate level class are intended to help students become more proficient in speaking Spanish. It may be taken concurrently with Spanish 301.

Prerequisite: SPAN 202 or SPAN 211**SPAN 321 Iberian Culture and Civilization (4)****Fall:** Odd Years

Coursework helps students develop awareness and understanding of the culture of Spain through the study of historical and geographical facts, art, political life, and general customs of the people.

Prerequisite: SPAN 302**SPAN 322 Latin American Culture and Civilization (4)****Fall:** Even Years

Coursework helps students develop awareness and understanding of the cultures of Latin America through the study of historical and geographical facts, art, political life, and general customs of the people of Latin America.

Prerequisite: SPAN 302**SPAN 340 [D1] Introduction to Spanish Literature (4)****Spring:** All Years

Students learn the background of the literary genres and the terms used to study and explain them through close reading and analysis. The periods of Iberian and Latin American Literature are presented, giving students a historical context for their studies.

Prerequisite: SPAN 302, SPAN 321 or SPAN 322

SPAN 341 [D1] Survey of Iberian Literature (4)**Spring:** Even Years

Analysis and discussion of major works of Iberian literature from one or more of the following periods: 1) origins to 1800; 2) 1800-1936; 3) 1936 to present.

Prerequisite: SPAN 340**SPAN 342 [F] Survey of Latin American Literature (4)****Spring:** Odd Years

Analysis and discussion of major works of Latin American Literature from one or both of the following periods: 1) Precolumbian to modernism; 2) modernism to the present. **Prerequisite:** SPAN 311

SPAN 351 Spanish Phonetics and Phonology (4)**Fall:** On Demand **Spring:** On Demand

This course is designed to familiarize students with the articulation, production and perception of sounds in Spanish. The course will touch upon sound change and dialectology. Students will apply the principles learned in this class to the improvement of their pronunciation of Spanish. **Prerequisites:** SPAN 302

SPAN 390 Topics in Spanish Language, Literature, and Culture (1-4)**Fall:** On Demand **Spring:** On Demand

Topics in Spanish language, literature, and culture. May be repeated since content may vary.

SPAN 401 Advanced Spanish Grammar and Composition (4)**Fall:** All Years

Intensive study, practice, and review of Spanish grammar, vocabulary, and composition. Students will develop writing skills through a variety of types of composition assignments designed to help them improve their overall writing proficiency in Spanish.

Prerequisite: SPAN 302**SPAN 421 Advanced Iberian Culture and Civilization (4)****Spring:** Even Years

In-depth analysis and discussion of Iberian culture and civilization.

Prerequisite: SPAN 321 or SPAN 322**SPAN 422 Latin American Culture and Civilization (3)****Spring:** Odd Years

Coursework helps students develop awareness and understanding of the cultures of Latin America through the study of historical and geographical facts, art, political life, and general customs of the people of Latin America. **Prerequisite:** SPAN 321 or SPAN 322

SPAN 443 Genres and Themes of Iberian/Latin American Literature (4)**Fall:** Even Years

Analysis and discussion of genres and/or themes from Iberian and/or Latin American literature.

Prerequisite: SPAN 311**SPAN 444 Periods and Authors of Iberian/Latin American Literature (4)****Fall:** Odd Years

Analysis and discussion of major periods and/or authors from Iberian and/or Latin American Literature. **Prerequisite:** SPAN 311

SPAN 451 Survey of Spanish Linguistics (4)**Spring:** All Years

Introduction to linguistics of Spanish: phonetics, phonology, morphology, syntax, semantics, history of the Spanish language, philology, dialectology, sociolinguistics, and psycholinguistics.

Prerequisite: SPAN 302**SPAN 461 Introduction to Spanish Translation I (4-3)****Fall:** On Demand **Spring:** On Demand

Theoretical foundations and introductory exercises. The course includes Spanish to English and English to Spanish translation. Students must inform the professor, during the first week of class, whether or not they intend to use this course as the elective in which they will complete the project or paper that is required of all majors. **Prerequisite:** SPAN 401

SPAN 490 Special Topics in Spanish Language, Literature or Culture (1-4)**Fall:** On Demand **Spring:** On Demand

In-depth study of a selected topic in Spanish. May be repeated for credit. Applicable toward the Spanish major or minor. **Prerequisite:** SPAN 302

SPAN 497 Independent Study in Spanish - Advanced Level (1-2)**Fall:** On Demand **Spring:** On Demand

Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits. Requires approval of department chair upon presentation of proposal.

Prerequisite: SPAN 301 or SPAN 311

Special Education

SPED 320 Educational Services for Individuals with Exceptionalities (3)

Fall: All Years **Spring:** All Years
Introduction to the recognition, incidence and educational needs of individuals with exceptionalities. A wide range of educational services are studied with emphasis on the shared responsibility of all professionals in education and related services.

SPED 413 Instructional Strategies (3)

Fall: All Years **Spring:** All Years
Curriculum planning and classroom teaching techniques for students with disabilities 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 320

SPED 417 Educating Students with Severe Disabilities (3)

Spring: All Years
Examination of the definitions, characteristics, instructional methods/techniques, and educational programming for learners with severe disabilities. Also explored are typical and atypical motor development with mobility techniques and prosthetic and technical devices.
Prerequisite: SPED 419, SPED 320

SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)

Fall: All Years
This course is designed to help you understand medical aspects and terminology, human anatomy and physiology, pharmacology, kinesiology, neurology, secondary health care issues, accompany specific physical and health disabilities, specific condition needs, managing personal physical care, first aid techniques, and evacuation procedures. Prerequisite substitutions require instructor consent.
Prerequisite: SPED 320

SPED 423 Young Children with Disabilities and Their Families (3)

Fall: All Years **Spring:** All Years
Examination of the program models and approaches to services for young children with disabilities and their families. Research on the efficacy of early intervention and aspects of family systems is reviewed. Current issues in service provision, teaming, and individual program plans are also included in the course. Prerequisite substitutions require instructor consent. **Prerequisite:** SPED 320

SPED 424 Assessment in Early Childhood Special Education (3)

Spring: All Years
Examines assessment instruments and procedures with infants, toddlers, preschoolers with disabilities. Approaches to identification, screening, assessment selection and programming are explored. Prerequisite substitutions require instructor consent.
Prerequisite: SPED 423

SPED 426 Infant Strategies (3)

Spring: All Years
This course overviews knowledge and skills necessary to be effective professionals in working with families and infants and toddlers with disabilities and those at risk for disabilities. Emphasis is placed on parent-professional collaboration, interagency and interdisciplinary planning, and design of effective individual family service plans. Prerequisite substitutions require instructor consent.
Prerequisite: SPED 423

SPED 427 Instructional Strategies: Preschool (3)

Fall: All Years **Spring:** All Years
The focus of this course will be knowledge and skills required to design and implement individual and group instructional programs for children with special needs from 3-6 years. The development of instructional objectives and systematic teaching strategies in motor, cognitive, social, communication and self-care skills will be emphasized. Prerequisite substitutions require instructor consent.
Prerequisite: SPED 423

SPED 429 Classroom Modifications/Adaptations (2)

Fall: All Years **Spring:** All Years
Introduction to the recognition of diverse learning and educational needs of elementary/middle school students. A range of curriculum strategies, modifications and adaptations for students with diverse needs will be studied with emphasis on successful learning experiences for all students.
Prerequisite: SPED 320

SPED 443 Consultation and Collaboration in Special Education and Human Services (3)

Fall: All Years **Spring:** All Years
Understanding and development of professional consultation and collaboration skills to initiate and apply appropriate and effective teaming techniques for assessment, intervention, and evaluation via transdisciplinary approaches for special needs students/clients and their caregivers. This course should be taken concurrently with Practicum course or Student Teaching.

SPED 445 Remedial and Corrective Reading (3)**Fall:** All Years **Spring:** All Years

The causes, assessment, and correction of reading difficulties are analyzed. Specific strategies poor readers can use to read better are described. Explicit instructional methods are presented. Prerequisite substitutions require instructor consent.

Prerequisite: EECE 341, SPED 320**SPED 446 Remedial and Corrective Reading Clinic (1)****Fall:** On Demand **Spring:** On Demand

Supervised practice in remediating children with reading disabilities at the primary, intermediate, and secondary level. Prerequisite substitutions require instructor consent. **Prerequisite:** SPED 445

SPED 447 Physical and Health Disabilities (3)**Spring:** All Years

This course is designed to provide you with up-to-date information on the needs of the students in your school who have experienced periods of poor health or physical adversity. This course provides you an understanding of how students' illnesses or disabling condition affect their everyday lives. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 419 or SPED 519**SPED 451B Student Teaching: SLD (8-10)****Fall:** All Years **Spring:** All Years

Student teaching in public school settings for pupils with specific learning disabilities. Prerequisite substitutions require instructor consent. Licensure coursework must be completed prior to enrollment in this course.

SPED 451C Student Teaching: E/BD (8-10)**Fall:** All Years **Spring:** All Years

Student teaching in public school setting for pupils with Emotional/Behavioral Disorders. Prerequisite substitutions require instructor consent. Licensure coursework must be completed prior to enrollment in this course.

SPED 451D Student Teaching: Developmental Disabilities (8-10)**Fall:** All Years **Spring:** All Years

Student teaching in public school elementary or secondary setting for pupils with mild/moderate disabilities. Prerequisite substitutions require instructor consent. Licensure coursework must be completed prior to enrollment in this course.

SPED 451E Student Teaching: ECSE (8-10)**Fall:** All Years **Spring:** All Years

Student teaching in public school setting for young children with disabilities. Prerequisite substitutions require instructor consent. Licensure coursework must be completed prior to enrollment in this course.

SPED 451P Student Teaching: Physical and Health Disabilities (8-10)**Fall:** All Years **Spring:** All Years

Student teaching in public school elementary or secondary setting for pupils with physical/health disabilities. Prerequisite substitutions require instructor consent. Licensure coursework must be completed prior to enrollment in this course.

SPED 456 Functional Assessment and Curriculum (3)**Fall:** All Years

The purpose of this course is to develop an understanding of individuals with developmental disabilities as well as a functional, life-skills orientation to assessment and curriculum. Students will perform both informal and formal assessment, write an assessment report, and develop curriculum which allows for integration of students with identified cognitive impairments. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 413, SPED 419, SPED 471**SPED 459 Communication Programming for Persons with Severe Disabilities (3)****Fall:** All Years

This course covers issues related to communication program and decision-making models for communication programming for individuals with severe disabilities. The emphasis is on assessing an individual's communication skills, selecting appropriate components for the communication system and planning intervention strategies. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 419**SPED 461 Learning Disabilities (3)****Fall:** All Years **Spring:** All Years

An introduction to definition, assessment, characteristics, and educational strategies for children and youth with specific learning disabilities. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 320

SPED 463 Assessment Strategies (3)**Fall:** All Years **Spring:** All Years

Assessment of scholastic achievement and aptitude, social behavior, and instructional effectiveness through the use of norm referenced individualized test instruments and informal instructor designed procedures. Course includes report writing, establishment of objectives, participation in the development of IEPs, and review of basic statistical and measurement concepts. **Prerequisite:** SPED 320

SPED 463L Assessment Lab (1)**Fall:** All Years **Spring:** All Years

Field experience in assessment and remediation of students with disabilities. This course should be taken concurrently with SPED 463.

SPED 464 Educational Planning and Adaptation for Students with Learning Problems (3)**Fall:** All Years **Spring:** All Years

Educational and transitional adaptations for learning disabled or emotional/behavioral disordered secondary students based on individual cognitive, affective, and behavioral characteristics. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 463**SPED 467A Secondary Practicum: Mild Disabilities (3)****Fall:** All Years **Spring:** All Years

Directed practicum experience in secondary level special education resource room setting. SPED 464 is to be taken concurrently. Concurrent course substitutions require instructor consent.

SPED 467D Practicum: Developmental Disabilities (3)**Fall:** All Years

Directed practicum in public school elementary or secondary setting for pupils with developmental disabilities. Students will spend 225 hours in schools. SPED 456 is to be taken concurrently. Prerequisite substitutions require instructor consent.

SPED 467E Practicum: Young Child Disabilities (2)**Fall:** All Years **Spring:** All Years

Directed practicum experience in early childhood special education. SPED 427 is to be taken concurrently. Concurrent course substitutions require instructor consent.

Prerequisite: SPED 423 or SPED 523**SPED 467I Practicum: Infant/Interagency Services (2)****Fall:** All Years**Spring:** All Years

Field experience in inter-agency planning and service delivery to infants and toddlers with disabilities and their families. Experience in assessment and individual plan development are included. SPED 426 is to be taken concurrently. Concurrent course substitutions require instructor consent.

Prerequisite: SPED 424**SPED 467P Practicum: Physical and Health Disabilities (3)****Spring:** All Years

Directed practicum in a public school elementary or secondary setting for pupils with physical or health disabilities. Prerequisite substitutions require instructor consent. SPED 447 is to be taken concurrently.

SPED 468B Student Teaching II: SLD (4)**Fall:** All Years**Spring:** All Years

Directed student teaching experience in an SLD program. Prerequisite substitutions require consent of the SLD licensure coordinator.

Prerequisite: SPED 464, SPED 467A, SPED 475**SPED 468C Student Teaching II: EBD (4)****Fall:** All Years**Spring:** All Years

Directed student teaching experience in an EBD program. Prerequisite substitutions require consent of the EBD licensure coordinator.

Prerequisite: SPED 464, SPED 467A, SPED 478**SPED 468D Student Teaching II: DD (4)****Fall:** All Years**Spring:** All Years

Student teaching in a public school elementary or secondary setting for pupils with developmental disabilities. Prerequisite substitutions require consent of the DD licensure coordinator.

Prerequisite: SPED 456, SPED 467D**SPED 468E Student Teaching II: ECSE (4)****Fall:** All Years**Spring:** All Years

Directed student teaching experience in an ECSE program. Prerequisite substitutions require consent of the ECSE licensure coordinator.

Prerequisite: SPED 424, SPED 426, SPED 427

SPED 468P Student Teaching II: Physical and Health Disabilities (4)**Fall:** All Years **Spring:** All Years

A second student teaching experience in a public school elementary or secondary setting for pupils with physical and/or health disabilities. Prerequisite substitutions require consent of the P/HD licensure coordinator. **Prerequisite:** SPED 447, SPED 467P

SPED 469 Internship (3-10)**Fall:** On Demand **Spring:** On Demand

Directed field experience working with individuals with disabilities. Prerequisite substitutions require consent of the faculty advisor.

Prerequisite: SPED 320**SPED 470 Transitional Planning (3)****Fall:** All Years **Spring:** All Years

Transitional planning for secondary students with disabilities including transitional assessment, programming and planning. Students will also acquire knowledge of post secondary service options and funding sources. Prerequisite substitutions require instructor consent. **Prerequisite:** SPED 320

SPED 471 Behavior and Environment Management (3)**Fall:** All Years **Spring:** All Years

Application of learning theory and applied behavior analysis to teaching and to the problem of altering maladaptive behavior. Specific variables related to classroom and community based instruction of individuals with a variety of learning characteristics are included. Prerequisite substitutions require instructor consent. **Prerequisite:** SPED 320

SPED 473 Emotional/Behavioral Disorders (3)**Fall:** All Years **Spring:** All Years

Identification, assessment, and programming for students with Emotional/Behavioral Disorders. Course includes operation of program models of educational and other treatment agents. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 320**SPED 474 Management of Challenging Behavior (2)****Fall:** On Demand **Spring:** On Demand

Student will demonstrate an understanding of how nonaversive intervention strategies can be used to manage challenging behavior. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 471**SPED 475 Informal Assessment/Teaching Strategies:Students with Learning (3)****Fall:** All Years **Spring:** All Years

Informal assessment techniques and teaching strategies across the core content areas and in social skills for elementary and secondary students with specific learning disabilities. Prerequisite substitutions require instructor consent.

Prerequisite: SPED 461, SPED 463**SPED 478 Educational Interventions: Emotional/Behavioral Disorders (3)****Fall:** All Years **Spring:** All Years

Program design, intervention techniques, and management strategies for student with Emotional/Behavioral Disorders. Prerequisite substitutions require instructor consent. **Prerequisite:** SPED 473

SPED 490 Special Topics (1-3)**Fall:** On Demand **Spring:** On Demand

Advanced treatment of selected topics. Prerequisite substitutions require consent of the instructor.

Prerequisite: SPED 320**SPED 494 Legal/Social Foundations of Special Education (3)****Fall:** All Years **Spring:** All Years

This course overviews the educational, sociological, legal, and historical frameworks of special education services within the context of public school systems. It includes research on the efficacy of special education; national and state reform and renewal efforts in general and environment professional preparation, litigation and legislation, and best practices in curriculum for all learners. Issues related to families in a changing educational system are also addressed. Prerequisite substitutions require instructor consent. **Prerequisite:** SPED 320

SPED 495 Special Problems (1-3)**Fall:** On Demand **Spring:** On Demand

Directed field experience, reading, or research in special education. May be repeated up to 6 credits. Prerequisite substitutions require consent of the faculty advisor. **Prerequisite:** SPED 320

Social Work

SW 250 Introduction to Social Welfare and Social Work (3)

Fall: All Years **Spring:** All Years
Overview of social welfare and social work, including fields of practice, institutions, populations served, special issues, and an introduction to some social work methods and theories.

SW 308 Social Gerontology (3)

Fall: All Years
This course introduces students to the field of social gerontology for providing an overview of the significant sociological perspectives, social issues, and empirical social science research pertaining to the phenomenon of aging in society. The main goal of the course is to foster an understanding of aging as a process that is characteristic of both individuals and societies through a focus on social factors that shape the individual's experience of aging and the consequences of an aging population for social institutions. Same as SOC 308.
Prerequisite: SOC 110, SW 250

SW 330 Human Behavior and the Social Environment (3)

Fall: All Years **Spring:** All Years
Overview and application of systems theory. Assess the interactions among individuals and between individuals and social systems. Includes an integration of bio-psycho-social variables that affect human development and behavior. Prior or concurrent enrollment in SW 250, SOC 230, PSY 202, and BIOL 104 is required. **Prerequisite:** SOC 110 PSY 113

SW 360 Research Methods in Social Work (3)

Fall: All Years **Spring:** All Years
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. Prior or concurrent enrollment in SOC 350 is required. Admission to the Social Work Program is required.

SW 369 Field Experience I (3-6)

Fall: All Years **Spring:** All Years
Elective field learning experience to gain knowledge and understanding of basic social service intervention. Three credits require 9 hours per week in an approved community social service agency to a maximum of 6 credits for 18 hours per week (Advance planning required). The listed prerequisite can be waived with consent of instructor. **Prerequisite:** SW 330

SW 390 Topics in Social Work (1-3)

Fall: On Demand **Spring:** On Demand
This course covers various topics from the discipline of Social Work. The course may be repeated when topics vary.

SW 402 Child Welfare Services (3)

Fall: All Years **Spring:** All Years
Problems, policies, and practices in the area of child welfare. Content includes: children's guardianship, the juvenile court system, children's out-of-home care, child protection services, foster care and adoption. The listed prerequisite can be waived with consent of instructor. **Prerequisite:** SW 250

SW 410 Gerontology: Policy and Practice (4)

Spring: All Years
This course is a writing intensive senior seminar for gerontology majors. Four to six hours a week will involve field experience working in a facility involving elderly care. Two hours a week will involve in-class discussions of the field experience as well as an examination of social policies relating to the elderly, including Social Security, Medicare, the Older Americans Act and Medicaid. Same as SOC 410.
Prerequisite: SOC 308

SW 411 Chemical Dependency (3)

Fall: All Years
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 are examined. The listed prerequisite can be waived with consent of instructor. **Prerequisite:** SW 250

SW 420 Generalist Practice: Individuals (3)

Fall: All Years **Spring:** All Years
Generalist social work practice utilizing the problem-solving model with focus on the knowledge, values and skills for working with individuals. Prior or concurrent registration in SW 360 is required.

SW 430 Generalist Practice: Families (3)

Fall: All Years **Spring:** All Years
Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with families. Prior or concurrent registration in SW 360 and SW 420 is required.

SW 431 Readings in Social Welfare (2-3)**Fall:** All Years **Spring:** All Years

Reading in-depth in selected areas of social work under faculty supervision and consent. Credits determined by the extent and depth of the readings.

Prerequisite: SW 330**SW 440 Generalist Practice: Groups (3)****Fall:** All Years **Spring:** All Years

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with groups.

Prerequisite: SW 420**SW 450 Generalist Practice: Communities and Organizations (3)****Fall:** All Years **Spring:** All Years

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 420

SW 460 Social Policy (3)**Fall:** All Years **Spring:** All Years

Development of social welfare policies, political and economic perspectives, policy analysis/change process, policy evaluation, and the relationship of social policy to social work practice. Prior or concurrent registration in PARA 370 is required. Admission to the Social Work Program is required.

Prerequisite: ECON 100, HIST 241, POL 120**SW 469 Internship (12)****Fall:** All Years **Spring:** All Years

Required field experience under agency and departmental supervision. Opportunity to practice and integrate the social work knowledge, values and skills obtained in the classroom. Planning must be made at least two semesters prior to internship.

Prerequisite: SW 360, SW 420, SW 430, SW 440, SW 450, SW 460**SW 470 Senior Seminar (3)****Fall:** All Years **Spring:** All Years

Seminar during internship to promote integration of academic knowledge and field learning with a focus on professional and ethical issues.

SW 479 Field Experience II (3-10)**Fall:** All Years **Spring:** All Years

Elective field learning experience used to enhance knowledge and skills acquired in SW 469 Internship. Advanced planning and consent of the instructor is required. **Prerequisite:** SW 469

SW 490 Topics in Social Work (1-3)**Fall:** On Demand **Spring:** On Demand

Selected topics of concern to social work students and human service professionals. May be repeated to 6 credits. Listed prerequisite can be waived with consent of instructor. **Prerequisite:** SW 250

SW 497 Independent Study (2-3)**Fall:** All Years **Spring:** All Years

Individual study, project, or research of special interest. Repeatable to 6 credits. May apply to the social work elective requirement for the major. Listed prerequisite can be waived with consent of instructor.

Prerequisite: SW 360**SW 499 Social Work Workshops (1-3)**

Workshops in the Department of Social Work to meet specific needs of students and agency personnel in the community.

Technology

TECH 101 Industrial Technology Careers (1)**Fall:** All Years **Spring:** All Years

Students will explore typical career paths for Industrial Technology graduates such as: operations managers, quality assurance specialists, materials managers, and technical sales and marketing. Review of employment and professional advancement opportunities with industrial distributors, suppliers, and manufacturers coupled with student interests and abilities.

TECH 111 Technology and Society (2)**Spring:** All Years

Topics in this course include a brief history of industry and the major technologies since the industrial revolution; a study of the major occupations in the manufacturing, construction, mining, agriculture, printing and publishing, and transportation industries; and contemporary issues including futurology, technology assessment, ethics in the workplace, and technology, work, and leisure.

TECH 113 Engineering Graphics/CAD (3)**Fall:** All Years **Spring:** All Years

The course structure revolves around three areas of study. The first instructional module includes sketching, pictorials, and multi-view drawings focusing on increasing visualization skills. A second module involves an introduction to a 2D CAD program and relating that CAD output back to the visualization module. The third module is an introduction to a feature-based, parametric solid modeler.

TECH 190 Topics in Technology (1-3)**Fall:** On Demand **Spring:** On Demand

Topical study of a particular technology problem, subject, or situation not offered in the regular curriculum. May be repeated for credit if offered under different title.

TECH 216 3D Modeling (3)**Fall:** All Years **Spring:** All Years

3D Modeling and Animation is a course about building 3D CAD models for a variety of disciplines. Forensic animators use these models to demonstrate how accidents happen. Engineers use them to show how machines and systems work. Architects use them to let their clients participate in the design process. Video game developers use them to create virtual worlds populated with people, places, and things that exist only in the imagination.

Prerequisite: ENG 113 or TECH 113**TECH 223 Statics for Technologists (3)****Fall:** On Demand

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 229 or MATH 142**TECH 225 Strengths of Materials for Technologists (3)****Spring:** On Demand

Elementary principles of strengths of materials utilizing algebra, trigonometry, and analytical geometry. Material includes stress and strain, torsion, shear and bending, deflections, combined stresses, beam design in steel and wood. Will not transfer to engineering programs. **Prerequisite:** TECH 223

TECH 230 Manufacturing Processes (3)**Fall:** All Years

A survey course including information on traditional and non-traditional manufacturing processes. This course covers machine operations, and supplies background knowledge in industrial equipment and processes. Hands-on-lab experiences in metal, synthetics, and welding processes.

TECH 274 Electrical and Motor Technology (4)**Fall:** All Years

The course covers electrical theory, circuits, electrical distribution, motors and motor control. Lecture and supporting laboratory activities allow this survey course to apply the theory in a practical and realistic manner.

TECH 290 Topics in Technology (1-3)**Fall:** On Demand **Spring:** On Demand

Topical study of a particular technology problem, subject, or situation not offered in the regular curriculum. May be repeated for credit if offered under a different title.

TECH 332 CNC Part Programming (3)**Spring:** On Demand

An introduction to computer numerical control (CNC) equipment and programming. Applications in industry and lab experiences with CNC machines and applications software included in lab.

Prerequisite: TECH 230**TECH 334 Material Science (3)****Fall:** On Demand

A study of structure, mechanical, thermal, electrical and chemical properties of materials used in the production of manufactured products.

TECH 346 Industrial Distribution Operations (3)**Fall:** All Years

A study of industrial distribution through an examination of system components, functions, and actual practices at a multi-branch distribution company. Resource management, production planning, procurement, wholesaling, channel management, inventory control, professional selling and the rationale of selection of common discounts and value-added functions will be examined.

Prerequisite: MKTG 310**TECH 376 Industrial Process Control (3)****Spring:** All Years

A study of industrial automation components and software for material handling and process control. Laboratory experiments using industrial devices such as motor controls and programmable logic controllers (PLC) provide practical applications.

Prerequisite: TECH 274**TECH 380 Methods Improvement (3)****Spring:** All Years

Study and analysis of productive and non-productive work elements for the purpose of productivity improvements and establishing time standards.

TECH 382 Manufacturing Automation (3)**Fall:** All Years

This is a course about production automation. An overview of automation in industry including robotics, CNC, and computer based systems in the operation and control of production. Lab experiences include programming and operations of robotics and CNC machine tools.

TECH 383 Cost Analysis (3)**Fall:** All Years

The objectives of the course are to analyze cost behavior and to develop and interpret financial information at the process, project, and organization levels for purposes of management decision making.

Prerequisite: ACCT 230**TECH 385 Process Leadership (3)****Spring:** All Years

Development of project leadership with emphasis on team building, leadership, problem solving, negotiation, entrepreneurship, and resource planning. Case studies, class discussion, written assignments, and oral presentations are utilized in instructional delivery.

TECH 387 Fluid Power (3)**Spring:** All Years

Basic theory and applications of hydraulic and pneumatic components, systems and circuits will be covered. An exposure to power transmission elements and applications will also be included. Lab applications include basic hydraulic and pneumatic circuits and class presentations.

Prerequisite: TECH 230**TECH 390 Topics in Technology (1-3)****Fall:** On Demand**Spring:** On Demand

Topical study of a particular technology problem, subject, or situation not typically offered in the regular curriculum. May be repeated for credit if the course title changes.

TECH 428 Project Management (3)**Spring:** All Years

The primary goal of Project Management is to manage projects so that they are completed on time, within budget, and in accordance with contract documents. This course develops and discusses techniques that will assist students in successful project management practices. Junior standing is required.

TECH 469 Student Internship (2-12)**Fall:** All Years**Spring:** All Years

Available to Industrial Technology majors with the approval of their faculty advisor. Through industry cooperation, formal instruction is supplemented with a practicum conducted on site with a host business, helping the Industrial Technology students learn the necessities for successful careers in distribution and manufacturing. Maximum of 12 credits may be applied to the graduation requirement.

TECH 481 Facilities Management (3)**Fall:** On Demand

A study of management techniques for maintenance, repair, and improvements for buildings, mechanical systems, energy management, machinery, and grounds. Emphasis is placed on predictive maintenance and strategies used for monitoring critical process equipment, predicting machine failure, and scheduling maintenance accordingly.

Prerequisite: TECH 230**TECH 482 Quality Planning and Implementation (3)****Fall:** All Years

Focusing on expanded managerial philosophies and techniques of quality control including the comprehensive treatment of quality management and control issues. This course provides practical applications of management theory by balancing managerial and technical material.

Prerequisite: MATH 234**TECH 483 Facility Design (3)****Spring:** All Years

A study of facilities, locations, structure and planning for efficient layout and material handling systems.

Prerequisite: TECH 380**TECH 485 Production and Inventory Management (3)****Spring:** All Years

Study and analysis of systems and methods for planning and control of manufacturing resources. The framework of this course is based on the guidelines provided by the American Production and Inventory Control Society. Main topics include master planning, inventory management, material and capacity requirements planning, production activity control, and Just-In-Time.

Prerequisite: TECH 380, MATH 234

TECH 490 Special Problems (1-4)

Fall: On Demand **Spring:** On Demand
Individual study not offered in depth in the regular curriculum. Maximum of 4 credits applied to graduation.

TECH 493 Occupational Safety and Health (3)

Fall: All Years
Designed for students to develop an understanding of basic occupational safety and health terminology, principles, and practices. Course content covers both industrial and construction settings and reflects current occupational standards. Students will be exposed to the development of a safety program and will do a safety site visit off-campus.

Theatre Arts

THTR 101A Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 101B Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 101C Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 101D Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 102 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 120 [D1/6] Introduction to Theatre (3)

Fall: All Years **Spring:** All Years
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.

THTR 140 Dance for the Stage I (3)

Fall: All Years
A beginning course in dance technique for dance styles in musical theatre, including dance forms of jazz and ballet.

THTR 160 Technical Theatre Production (1)

Fall: All Years **Spring:** All Years
Training in the technical phases of theatre production: experience in set construction, painting, properties, backstage organization, light, sound, and costumes. Participation in theatrical production.

THTR 190 Topics in Theatre (1-3)

Fall: On Demand **Spring:** On Demand
This is a lower division topics course and may be repeated when the topic changes.

THTR 202 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 221 Drama I (3)

Fall: All Years
An examination of great plays, dramatic structure and styles, plays in performance, selected theatre history, and playwriting. For theatre majors and minors and by permission of the instructor.

THTR 230 [E] Principles of Acting (3)

Fall: All Years **Spring:** All Years
Basic terminology and techniques used by the actor in creating a role for the stage.

THTR 232 Principles of Make-up for Stage and Film (2)

Fall: On Demand **Spring:** On Demand
Techniques and styles of make-up used in stage and film productions.

THTR 233 Theatre Costuming (3)

Fall: On Demand **Spring:** On Demand
This course explores the practical aspects of costume construction and design.

THTR 235 Principles of Stage Directing (3)

Spring: All Years
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.
Prerequisite: THTR 230

THTR 236 Theatre Arts Management (2)

Fall: On Demand **Spring:** On Demand
The study of sound fiscal operation, production cost preparation, public relations and promotion, and laws affecting theatre operations. Offered on demand.

THTR 240 Dance for the Stage II (3)**Spring:** All Years

A continuation of skills amassed in “Dance for the Stage I.” A special unit of tap is included.

Prerequisite: THTR 140**THTR 255 Technical Theatre Methods (3)****Fall:** All Years

The theory and practice of working with stage equipment; the methods and procedures of scenery construction, stage rigging, and scene shifting.

THTR 290 Topics in Theatre (1-3)**Fall:** On Demand**Spring:** On Demand

This is a lower division topical course and may be repeated when the topic changes.

THTR 302 Practicum (1)**Fall:** All Years**Spring:** All Years

Practical experience in a performance activity in Theatre.

THTR 321 [D1] Theatre in America (3)**Spring:** Odd Years

Critical analysis of American plays in performance focusing on American dramatic themes, theatre history, and production styles.

THTR 322 [D1] Drama II (3)**Fall:** Even Years

Theatre and drama from Classical Greece through the European Renaissance. Topics include a selection of great plays, significant playwrights, theatre buildings, staging and technical innovations, and Aristotelian criticism. Same as ENGL 343.

THTR 323 [D1] Drama III (3)**Spring:** Odd Years

Theatre and drama from the 17th century through the modern era. Topics include a selection of great plays, significant playwrights, theatre buildings, staging and technical innovations, and artistic and cultural movements. Same as ENGL 344

Prerequisite: THTR 322, THTR 322.**THTR 324 Musical Theatre History (3)****Fall:** On Demand

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.

THTR 325 [F1] African American Theatre (3)**Fall:** On Demand

Survey of selected plays by African American writers from the 19th and 20th centuries. Focus on aesthetic and interpretative dimensions grounded in African American historical and cultural contexts. AMCS 210 or 211 or THTR 220 are highly recommended as prerequisites.

THTR 331 Scene Study (3)**Spring:** All Years

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 scene work will be performed as an actors' lab with regular feedback from the instructor and fellow classmates.

Prerequisite: THTR 230**THTR 333 Movement for the Actor (3)****Fall:** Odd Years

A physical approach to acting will be explored through Alexander, Laban, stage combat, and other movement methodologies.

Prerequisite: THTR 230, THTR 230**THTR 334 Voice for the Actor (3)****Fall:** Even Years

Voice for the actor focuses on vocal techniques. The course explores voice production: breathing, projection, articulation, diction, IPA, and dialects.

Prerequisite: THTR 230, THTR 230**THTR 335 Advanced Stage Directing (3)****Fall:** All Years

Advanced study of techniques of direction through the use of movement, picturization, tempo and script analysis. **Prerequisite:** THTR 235

THTR 340 Principles of Choreography (3)**Fall:** On Demand**Spring:** On Demand

Adaptation of choreographic assignments, in-class critiques, and analyses permit students to evolve a personal, original style and process associated with the role of choreographer.

THTR 355 Scene Design I (3)**Spring:** All Years

The fundamentals of designing scenery for the stage: process of design, elements of design, and execution procedure. **Prerequisite:** THTR 255

THTR 356 Advanced Technical Theatre Methods/ Lighting (3)

Fall: On Demand **Spring:** On Demand
Acquiring artistic and technical skills needed for designing scenery and lighting for the theatre; practical experience in design presentation. Offered on demand. **Prerequisite:** THTR 255, THTR 355

THTR 360 Dramatic Production I (1-4)

Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audiences. May be repeated by undergraduates. Offered summer only.

THTR 390 Topics in Theatre (1-3)

Fall: On Demand **Spring:** On Demand
This is an upper division topical course and may be repeated when the topic changes.

THTR 402 Practicum (1)

Fall: All Years **Spring:** All Years
Practical experience in a performance activity in Theatre.

THTR 425 Contemporary Playwrights (3)

Spring: Even Years
Significant playwrights and their works from the last 25 years. may be elected twice when the reading lists are substantially different.

THTR 430 Acting Styles (3)

Fall: On Demand **Spring:** All Years
Principles and problems in the acting of major historical and theatrical styles (for example, Classical, Renaissance, and Modern). May be repeated for credit when the style focus is substantially different.
Prerequisite: THTR 333 or THTR 334 or THTR 230

THTR 434 Special Projects in Theatre Arts (1-3)

Fall: On Demand **Spring:** 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. Offered on demand.

THTR 435 Directing Theory (3)

Spring: All Years
For advanced directing students. The course is a seminar style examination of the theatre directing approaches of great directors and directing problems. Students will be expected to articulate their own informed approach to directing.
Prerequisite: THTR 335

THTR 440 Dance Production (1)

Fall: All Years **Spring:** All Years
The course explore theory and practice in the productions aspects of dance. Students in the class will be required to rehearse and perform dances choreographed by faculty or visiting guest artists, and perform in the annual spring dance concert.

THTR 450 Scene Design II (3)

Fall: On Demand **Spring:** 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. Offered on demand.
Prerequisite: THTR 355, THTR 356

THTR 460 Dramatic Production II (1-4)

Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audience. may be repeated by undergraduate. Offered summer only.
Prerequisite: THTR 360

THTR 469 Internship (3-12)

Fall: On Demand **Spring:** On Demand
Offered on demand.

THTR 490 Topics in Theatre (1-3)

Fall: On Demand **Spring:** On Demand
This is an upper division topical course and may be repeated when the topic changes.

THTR 496 Senior Seminar (3)

Spring: All Years
Capstone course for Theatre Arts majors; proposal, completion, and presentation of projects; pre-professional skills; written exam integrating and applying knowledge from separate courses. Grade of "C-" or higher is required for graduation.

Women's Studies**WS 100 Women Today: Contemporary Women's Issues (3)**

Fall: All Years **Spring:** All Years
This course will examine current issues affecting women in American Society. It also addresses pertinent topics related to gender, diversity and systems of inequality. Topics include women and work, family, law and social policy, gender and mass media, violence against women, sexuality and the body, and women's health.

WS 219 Sociology of Sexual Behavior (3)**Spring:** All Years

Examines sociological and social psychological perspectives and research on sexual behavior. Topics include childhood sexual behavior, adolescent sexual behavior, sex and mate selection, marital sex, extramarital sex, and various forms of sexual variation. Same as SOC 219. **Prerequisite:** SOC 110

WS 232A [C] Women's Roles and Socialization in 19th and 20th Century America (2)**Spring:** All Years

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. This course provides a basis to develop an overall understanding of women's position in society and will focus on the social/historical perspective. WS 232A and WS 232B must be taken concurrently. Same as MDS 232A.

WS 232B [D1] Women's Roles and Socialization in 19th and 20th Century America (1)**Spring:** All Years

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. This course provides a basis to develop an overall understanding of women's position in society and has a historical literature component. WS 232B and WS 232A must be taken concurrently. Same as MDS 232B.

WS 235 Philosophy of Sex and Love (3)**Fall:** On Demand **Spring:** On Demand

Exploration of historical and contemporary sources. Topics may include the nature of sexual acts, perversion, homosexuality, sexual ethics, fantasy, pornography, marriage, the different types of love, and feminist views on sex and love. Same as PHIL 235.

WS 246 [D1] Women in Literature (3)**Fall:** On Demand **Spring:** On Demand

A study of the various ways women are depicted in imaginative literature and expository prose. Readings vary. Same as ENGL 246.

Prerequisite: ENGL 101 or ENGL 102**WS 247 [D1/7] Women's Studies (3)****Fall:** All Years **Spring:** All Years

An introduction to the discipline of Women's Studies. Examines multidisciplinary and interdisciplinary issues in Women's Studies in relation to the sciences, social sciences, humanities and arts. Also investigates disciplinary topics such as women's movements, difference, oppression, race and class. Includes a service learning component. Core class for Women's Studies minor program.

WS 294 Women and Sport (3)**Fall:** On Demand

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. Same as PE 294.

WS 300 [B1] Biology of Women (3)**Fall:** On Demand **Spring:** On Demand

A study of the gender-related aspects of the biology and behavior of women, including a critical examination of research in this field. Appropriate as a elective only for Biology majors who choose the Health and Medical Science emphasis or the Life Science Emphasis. Same as BIOL 300.

Prerequisite: BIOL 104**WS 303 [F] Cross Cultural Gender (3)****Spring:** On Demand

A survey of gender roles in various cultures. This class examines the relationship of gender to kinship, economics, political and biological factors. It also addresses culture change and the effect on gender role assignments. Same as ANTH 303.

Prerequisite: ANTH 110**WS 308 Social Gerontology (3)****Fall:** All Years

This course introduces students to the field of social gerontology for providing an overview of the significant sociological perspectives, social issues, and empirical social science research pertaining to the phenomenon of aging in society. The main goal of the course is to foster an understanding of aging as a process that is characteristic of both individuals and societies through a focus on social factors that shape the individual's experience of aging and the consequences of an aging population for social institutions. Same as SOC 308.

Prerequisite: SOC 110

WS 310 [F1] Dominant-Subordinate Group Relations (3)

Fall: All Years **Spring:** All Years
Theoretical, historical and contemporary examination of prejudice, discrimination, stratification, race, ethnicity and class. Focus on Native, African, Latino and Asian Americans, women, GLBT issues, other topics. **Prerequisite:** SOC 110

WS 312 [D1] Women and the Humanities (3)

Fall: On Demand **Spring:** On Demand
An examination of painting, sculpture, novels, songs and instrumental music by women, as well as creative work from the traditional world of women.

WS 314 [D] Introduction to Feminist Theory (3)

Fall: On Demand **Spring:** On Demand
Critical examination of various feminist theories, both historical and contemporary, and of various definitions of sexism. Students will also examine how feminist theory can be applied to various contemporary moral and social issues. Theorists studied may include Mill, de Beauvoir, Frye, and Jaggar. Representative contemporary issues may include women's reproductive rights, prostitution, sexual harassment laws, and marriage and family issues. Same as PHIL 314.

WS 320 [C] Sociology of the Family (3)

Fall: All Years
Examines the theoretical issues and research findings pertaining primarily to American family life. Topics include dating and mate selection, alternatives to traditional marriages, marital structure and interaction, and marital dissolution. Same as SOC 320. **Prerequisite:** SOC 110

WS 333 [C] Sociology of Gender (3)

Spring: On Demand
Focuses on the social construction of gender and consequences of gender stratification for women and men. Topics may include: gender differences; the concept of "gender role"; gender in the economic, political, and educational institutions; discrimination; and the feminist movement. Same as SOC 333. **Prerequisite:** SOC 110

WS 390 Topics in Women's Studies (1-3)

Fall: On Demand **Spring:** On Demand
This is an upper division topical course and may be repeated when the topic changes.

WS 397 Individual Study (1-3)

Fall: On Demand **Spring:** On Demand
Directed readings and discussion on particular topics agreed upon by instructor and student.

WS 408 Women and Art (4)

Fall: On Demand **Spring:** On Demand
This course examines the history of women artists as well as the representation of women as subjects in art. The course also provides a historical introduction to feminist art history and methodology. Same as ART 408.

WS 410 Directed Readings in Women's Studies (1-3)

Fall: On Demand **Spring:** On Demand
Projects designed by students and instructor.

WS 412 Seminar in Women's Studies (3-4)

Fall: On Demand **Spring:** On Demand
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.

WS 415 Gender and Media (3)

Fall: All Years
This course critically examines the relationship between gender and mass media. Analysis and discussion focuses on the ways media create and perpetuate gender roles. Examines media assumptions about masculinity and femininity, media representations of women and men, coverage of gendered issues and women and men as media professionals. Same as MC 415.

WS 416 Violence in the Family (3)

Fall: Odd Years
Application of the sociological perspective to the following topics: family violence as an emergent social problem; physical and sexual abuse of children; dating, marital, and sibling violence; societal-level "solutions." Same as SOC 416. **Prerequisite:** SOC 320

WS 420 Feminism in Global Perspective (3)**Spring:** All Years

A topical survey of women's issues in various regions of the world with a focus on manifestations of feminism in different cultural contexts. Topics include women's rights as human rights, sex tourism and trafficking, genital mutilation, religious systems and women, and reproductive rights.

WS 495 Topics in Feminist Theory (3)**Fall:** On Demand **Spring:** On Demand

Courses offered under this title will focus on feminist theories as frameworks for work on feminist issues. For specific topic see class schedule. Topics may include Knowledge, Ethics, Ecology, Reproductive Rights and Issues, Self-images and Identity, and Sexuality. Students may register more than once when content varies, but may not repeat the course for more than 6 credits. Same as PHIL 495.

Prerequisite PHIL 101 or PHIL 105 or PHIL 314

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2007-08 Academic Calendar

Fall Semester

August 22 - 24	Registration/Advising/Orientation
August 27	All Classes Begin
August 27 - December 11	Instruction
September 3	Holiday (Labor Day)
October 12	Midterm
October 15	Fall Breather (No classes)
October 16	Registration/Advising/University Convocation Hour (No classes scheduled)
November 21 - 23	Fall Break (No night classes, Tues. Nov. 21)
December 12	Study Day (No day classes; night classes will meet)
December 13-14, 17-19	Final Exam Schedule
December 20	Grading Day
December 21	Commencement
December 24	Final Grades Due (3 PM)

Spring Semester

January 7-8	Registration/Orientation/Advising
January 9	Classes Begin
January 9 - April 29	Instruction
January 21	Holiday (Martin Luther King Day)
February 29	Midterm
March 3-7	Spring Break
March 24	Non-Instructional Day (No classes)
April 11	Non-Instructional Day (No classes)
April 30	Study Day *(No day classes; night classes will meet)
May 1-2, 5-7	Final Exam Schedule
May 8	Grading Days
May 9	Commencement
May 12	Final Grades Due (3 PM)

Summer Sessions

Session I

May 26	Memorial Day
May 28	Registration / Classes Begin
May 28-July 1	Instruction
July 1	First Session Ends
July 3	Grades Due (3 PM)
July 4	Holiday

Session II

July 7	Registration / Classes Begin
July 7 - August 8	Instruction
August 8	Second Session Ends
August 11	Grades Due (3 PM)

*Night classes are those classes that begin 4:00 p.m. or later.

2006-07 Academic Calendar

Fall Semester

August 21	In-service Day
August 22-23	Registration/Orientation
August 24	All Classes Begin
August 24-December 12	Instruction
September 4	Holiday (Labor Day)
October 13	Midterm
October 16	Fall Breather (Non-Instructional Day)
October 17	Planning Day (No classes)
November 22-26	Fall Break (No night classes Tuesday, November 21)
December 13	Study Day
December 14-15, 18-20	Final Exam Schedule
December 21	Grading Day
December 22	Commencement (2 p.m.)
December 26	Final Grades Deadline (3 p.m.)

Spring Semester

January 8	Registration/Orientation
January 8	Evening Classes Begin (4:00 and later)
January 9	Daytime Classes Begin
January 9-May 1	Instruction
January 15	Holiday (Martin Luther King Day)
February 28	Midterm
March 12-16	Spring Break
April 9	Non-instructional Day
April 10	Planning Day (No classes)
May 2	Study Day (No day classes; night classes will meet*)
May 3-4, 7-9	Final Exam Schedule
May 10	Grading Day
May 11	Commencement (2 p.m.)
May 14	Final Grades Deadline (3 p.m.)

Summer Sessions

Session I

May 30	Registration/Classes Begin
May 30-July 3	Instruction
July 3	Session Ends
July 4	Holiday
July 6	Final Grades Deadline (3 p.m.)

Session II

July 5	Registration/Classes Begin
July 5-August 8	Instruction
August 8	Session Ends
August 10	Final Grades Deadline (3 p.m.)

*Night classes are those classes that begin 4:00 p.m. or later.