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Minnesota State University Moorhead

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2011-2012 Undergraduate Catalog

The Bulletin

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MINNESOTA STATE UNIVERSITY
MOORHEAD™

Minnesota State University Moorhead

The Bulletin

2011-2012

Undergraduate Catalog

www.mnstate.edu

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Admissions	477-2161
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Records Office	477-2565
Student Affairs	477-2171

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Without TDD's should contact the Minnesota Relay Service at 1-800-627-3529**

Minnesota State University Moorhead is an equal opportunity educator & employer and is a member of the Minnesota State Colleges & Universities System. This information will be made available in alternate format upon request by contacting Disability Services at 218.477.2131 (voice) or 1.800.627.3529 (MRS/TTY).

- **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, (www.ncahigherlearningcommission.org), 312-263-0456) to offer undergraduate four-year college programs leading to Baccalaureate degrees. Online only programs have been approved in Educational Leadership, Nursing, and Operations Management in the Technology department.
- **North Central Association 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 level and programs in School Psychology and Educational Leadership are accredited at the Education Specialist level.
- **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 various areas of education.
- **American Bar Association**

Minnesota State University Moorhead's Paralegal program 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.
- **Association to Advance Collegiate Schools of Business International**

Minnesota State University Moorhead's School of Business is accredited by the Association to Advance Collegiate Schools of Business International (AACSB).
- **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.
- **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 Student Affairs Practice in Higher Education programs of study.
- **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.
- **Minnesota Board of Peace Officer Standards and Training**

Minnesota State University Moorhead is certified to educate police officers in the State of Minnesota.
- **National Association of Industrial Technology**

Minnesota State University Moorhead's program in Industrial Technology (Industrial Distribution and Industrial Management) and Operations Management in the Department of Technology are accredited by the National Association of Industrial Technology.
- **National Association of Schools of Art and Design**

The Minnesota State University Moorhead Department of Art & 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.

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

The Bulletin

It is our intention to provide resources relevant to the academic, extracurricular, and social lives of students.

Every effort has been made to ensure the accuracy of the material contained within this catalog as of the date of publication. However, all policies, procedures, academic schedules, program information, and fees are subject to change at any time by appropriate action of the faculty, the MSUM administration, the Minnesota State Colleges and Universities Board of Trustees or the Minnesota Legislature without prior notification. The provisions of this catalog do not constitute a contract between the student and MSUM. The information in this catalog is for use as an academic planning tool and is subject to change at any time.

Upon printing of this catalog, all previous issues are revoked.

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, Scholarship and Financial Aid, and Academic Resources

Emergency Cancellation

Classes/programs are subject to cancellation or changes in the event of an emergency. MSUM will seek to continue instruction through alternate means if they are available to meet the situation.

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 218-477-4318 (Voice); 218-477-2420 (FAX) or 1-800-627-3529 (MRS/TTY).

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 http://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, email 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 10th 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: <http://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
- Email address
- Phone numbers
- Major and minor
- Class level
- Dates of enrollment
- Full-time/part-time status
- Degrees, Honors and Awards

- Previous educational institutions and dates attended
- 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).

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 information regarding the Drug Free Schools and Communities Act is available online at www.mnstate.edu/aod/biennial_review.cfm. The Annual Campus Crime Report is available online 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.

Annual Crime 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.

MSUM at a Glance

Minnesota State University Moorhead, with an enrollment of more than 8,889 full- and part-time students, offers 76 undergraduate majors with 141 emphases, and 12 graduate degree programs. Included in our majors are 31 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 a quality education at the lower costs made possible by the support of Minnesota's citizens.

Vision Statement

Minnesota State University Moorhead will be a welcoming educational community that offers rigorous courses of study and places high expectations upon its students. Our strong commitment to faculty-mentored undergraduate research and intellectual growth will provide students with continual opportunities for personal and professional achievement. MSUM will continue to foster an environment that encourages students to become versatile, thoughtful, innovative, and engaged leaders who contribute to their professions and their communities.

MSUM values diversity and mutual respect and will strive to instill these ideals throughout the institution. MSUM honors its heritage as a respected, student-focused, public university and will continue to enhance our students' lives at the same time that it contributes to the community and the region. MSUM will offer graduate and professional programs that contribute to the state and region through increased collaboration with local and state business, industry, and human services to assure optimal preparation of graduates.

Minnesota State University Moorhead will build upon a solid foundation of high quality teaching and learning as it commits to a future as the premiere liberal arts and sciences-based university in the region.

Mission

Minnesota State University Moorhead is a caring community promising all students the opportunity to discover their passions, the rigor to develop intellectually and the versatility to shape a changing world.

History of Minnesota State University Moorhead

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, the campus's fifth name change to Minnesota State University Moorhead was approved by the Board of Trustees and became effective July 1, 2000.

The Campus

Most of the 28 major buildings on the 119-acre campus have been constructed since 1957, including the Science Laboratory Building that opened fall semester 2004 and the Wellness Center that opened spring semester 2009. Other campus buildings include five residence halls and one apartment facility, the Livingston Lord Library, Comstock Memorial (Student) Union, Kise Commons food service, the Regional Science Center, Hendrix Clinic and Counseling Center, Security/Police Substation, 11 classroom buildings, the Alex 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 300 members of Minnesota State University Moorhead's instructional faculty. Over 70 percent of the faculty holds the highest degree in their fields. Professors teach 99 percent of classes and are advisors and mentors. A student-faculty ratio of 19-to-1 encourages undergraduates to participate in faculty-mentored research and creative projects, and 73 percent of classes have fewer than 30 students.

The Community

Moorhead, Minnesota and Fargo, North Dakota are education-minded communities with Minnesota State University Moorhead, Minnesota State Community and Technical College, 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.

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 42 credits in the Liberal Arts and Sciences Curriculum (LASC), 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 the Liberal Arts and Sciences Curriculum requirements may be found in the *Academic Information* section of the **Bulletin** and requirements for the various majors and minors are listed in the *Curricula* section.

Liberal Arts and Professional Majors

Liberal Arts and other non-teaching major programs and their degree area and any emphasis include:

Accounting (BS)

American Multicultural Studies (BA)

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

Anthropology (BA)

- Archaeology
- Cultural Anthropology

Art (BA)

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

Art (BFA)

- Ceramics
- Drawing
- Graphic Design
- Pictorial Illustration
- Painting
- Photography
- Printmaking
- Sculpture

Athletic Training (BS)

Biochemistry and Biotechnology (BS)

- Biological Chemistry
- Cellular Molecular Sciences

Biology (BA)

- Ecology and Evolutionary Biology
- Health and Medical Sciences

Business Administration (BS)

- International Business
- Management

- Marketing

Chemistry (BA)

- Biological Chemistry
- Chemical Physics
- Computational Chemistry
- Mathematical Chemistry

Chemistry (BS)

Communication Studies (BA)

Community Health (BS)

- Allied Health
- Dental Health

Computer Information Systems (BS)

Computer Information Technology (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 History and Criticism
- Film Production

Finance (BS)

Geosciences (BS)

- Geoarchaeology
- Geographical Sciences
- Geology

Gerontology (BA)

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

Graphic Communications (BS)

- 3D Graphics
- Digital Design and Production
- Multimedia Development

Health Services Administration (BS)

- Long Term Care Administration

History (BA)

International Studies (BS)

- Development

- Diplomacy
- Legal Studies (BA)
 - American Legal System
 - Economics and Business
 - History
 - Human Rights
 - Philosophy
 - Sociology and Criminal Justice
- Mass Communications (BS)
 - Advertising
 - Broadcast Journalism
 - Documentary Journalism
 - Integrated Advertising and Public Relations
 - Multimedia Journalism
 - Photojournalism
 - Public Relations
- Mathematics (BA)
- Mathematics (BS)
 - Actuarial Science
 - Computation
- Medical Technology (BS)
- Music (BA)
- Music Composition (BMUS)
- Music Industry (BMUS)
- Music Performance (BMUS)
 - Jazz and Studio Music
 - Keyboard
 - Voice
 - Wind or String or Percussion Instrument
- Nursing (BSN)
- Operations Management (BS)
- Paralegal (BS)
 - Commercial Law
 - Elder Law and Practice
 - Litigation
- Philosophy (BA)
- Physical Education (BA)
- Physical Education (BS)
- Physics (BS)
 - Astronomy
 - Medical Physics
 - Physics with Business
- Political Science (BA)
 - Strategic Studies
- Psychology (BA)
- Social Work (BSW)
- Sociology (BA)
- Spanish (BA)
- Speech/Language/Hearing Science (BS)
 - Pre-audiology
- Sustainability (BS)
 - Business
 - Construction Management
 - Energy

- Environmental Policy
- Environmental Science
- Operations Management
- Theatre Arts (BA)
 - Directing
 - Performance: Acting
 - Performance: Musical Theatre
 - Theatre Technician
 - Theatre Technology and Design
- University Studies (BS)
- Women's and Gender Studies (BA)
 - *designates Emphases or Options*

Teacher Preparation

Bachelor of Science degrees with teaching licensure are available in the following areas:

- Art Education (K-12)
- Chemistry Education
- Early Childhood Education
- Earth Science Education
- Elementary Inclusive Education
- Communication Arts and Literature (English Education)
- Health Education
- Life Science Education
- Mathematics Education
- Music Education
 - Instrumental
 - Vocal
- Physical Education
- Physics Education
- Social Studies Education
- Spanish Education
- Special Education (available to off-campus students only, on-campus students should major in Elementary Inclusive Educations with a special education license)
 - 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 & Design* in the Curricula Section.

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*. Information on graduate certificates is available on the Graduate Studies online at <http://www.mnstate.edu/graduate/programs.cfm> www.mnstate.edu/graduate/programs.cfm.

Undergraduate

Autism Spectrum Disorder
 Biochemistry/Biotechnology
 Literature for Children and Young Adults
 Middle School Education
 Preprimary Education
 Publishing
 Reading
 Teaching and Learning with Technology
 Women and Science

Advising in Pre-Professional Areas

A number of professions, particularly those in the health sciences and legal areas, require advanced specialized training beyond the baccalaureate. Students interested in pursuing these careers must be properly advised about their various options for coursework and degree completion at MSUM so they will be best prepared for more advanced degree work in these fields. For example, MSUM has a Pre-professional committee of faculty who provide advising and support for students at all stages of their interest in and application to medical school. MSUM faculty also have expertise in advising students as they prepare for post-graduate work in the following professional areas: See the Dean, College of Social and Natural Science (HA 107) for more information.

Engineering

Health Science Professions

- Chiropractic
- Dentistry
- Medicine
- Occupational Therapy
- Optometry
- Physical Therapy
- Physician Assistant
- Podiatry
- Veterinary Science

Law and Legal Studies

Pharmacy

Associate Degree

Minnesota State University Moorhead offers the two-year Associate in Arts (A.A.). This degree requires completion of the Liberal Arts and Sciences Curriculum and Writing-Intensive requirements, plus electives to fulfill the 64-credit degree requirement. The AA degree is designed so students may continue to study for a baccalaureate degree should educational plans change. See the *Associate Degree* in the Academic Information section of this **Bulletin** for additional information.

Dual Degree Programs with the University of Minnesota

The Departments of Chemistry and Physics 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 Arts and Sciences Curriculum 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.

MSUM has a similar arrangement with the University of North Dakota for some engineering programs. For more information about the dual degree opportunities at MSUM, please contact the departments of Chemistry or Physics.

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 Arts and Sciences Curriculum 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.

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.

The following undergraduate special licensure endorsements are offered at Minnesota State University Moorhead:

Developmental/Adapted Physical Education
 Developmental Disabilities
 Emotional/Behavioral Disorders
 English as a Second Language
 Kindergarten
 Middle School
 Preprimary
 Reading
 Specific Learning Disabilities

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 the student's 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

Tri-College University (TCU) is a consortium of the three major Fargo-Moorhead institutions of higher education: North Dakota State University, Concordia College, and Minnesota State University Moorhead. Students at the three schools may benefit from what each school offers individually and cooperatively through the consortium.

Through the Tri-College course exchange, students enrolled at one campus may take courses at the other two at no extra cost and without going through separate admissions procedures. Tri-College expands discipline offerings and course availability for students beyond their home campus. Tuition is paid only to the home-base campus. Courses not eligible for Tri-College registration are those offered through NDSU's Division of Distance and Continuing Education, off-campus or weekend courses offered through MSUM, most workshops, independent study courses at Concordia College, and private music instruction at Concordia.

Students enrolling in classes that require special fees (lab fees, lessons, supplies, etc.) beyond the home-campus fees assessed at the time of registration will be responsible for remittance or payment to the billing department or institution.

Course Limits

The course exchange is limited to one course per student per semester per participating campus. Students are required to take at least one course at their home campus when participating in the Course Exchange Program (excluding summer session). Exceptions to the one-course/semester limit among campuses are as follows:

- Students who have declared a Tri-College minor (one not offered by their home campus). The minor must be declared and on file with the home institution, and will be confirmed by the home campus at the point of registration. The host campus will confirm that the courses being requested are required for the minor;
- Students who request enrollment in either the Aerospace Studies/Air Force ROTC (AS) or Military Science/Army ROTC (MS) courses at NDSU (regardless of declaring the Aerospace Studies or Military Science minors);
- Students who request enrollment in a course/lab pairing (lecture and corresponding lab, which are considered two separate courses);
- Students enrolled in the Tri-College University Education leadership program;
- Students enrolled in a Vaccinology seminar course are permitted to enroll in one additional class via the Tri-College consortium in the same term;
- Other requests for exceptions may be reviewed on an individual basis (i.e., second degree at partner institution), but will be granted on a very limited basis only after consultation and agreement between registrars at the impacted campuses).

Concordia does not participate in the course exchange during summer semester.

Grades

Grades received through TCU course exchange will be applied to the student's home campus grade point average.

Credits

Credits earned through TCU course exchange will appear on a student's transcript and be applied toward graduation requirements as though they were taken at their home-campus.

Course Substitutions

Students need to obtain advanced approval to substitute TCU courses for required courses in a major or minor.

Drop/Add Deadlines

Students follow their home-campus deadlines to drop or add a course, or to enroll as pass/fail, instead of at the TCU partner school where the course is offered or hosted.

Registration Procedures

Students register for TCU exchange courses at their home campus and pay their home campus tuition and fees.

Majors

Majors may be earned only at the school from which a student graduates. Most students enroll initially at the school from which they intend to graduate, but the TCU course exchange agreement between MSUM and NDSU allows a student to enroll at one of these schools for two or three years, while pursuing a major they will complete after transferring to the other school. Select programs have specially-designed articulation agreements intended to provide a seamless transfer process for TCU students. Students should work with the chair of the department in which they intend to major to make sure their program includes all requirements for the major and for graduation. Students may apply for tuition reciprocity prior to transferring from their home state.

Minors

The Tri-College partners recognize minors earned through the TCU course exchange. This means students can receive recognition on their graduation transcripts for minors completed on one of the other TCU campuses. This policy applies only to minors earned in programs not available on a student's home-campus.

Library Services

Students, faculty and staff of the TCU institutions may use all of the libraries in the consortium. Circulating materials from TCU libraries are available free of charge for direct checkout or through interlibrary loan via daily shuttle service. A regional computer-based catalog shows availability of materials at the TCU libraries as well as more than 100 other libraries.

Bus and Parking Services

A Tri-College bus schedule provides intercampus transportation to Concordia, MSUM, and NDSU every half hour. The bus is operated weekdays by the City of Fargo during the NDSU/MSUM academic year; it is not available during the summer. Bus schedules are available at the TCU office and at several locations on each campus.

A separate parking permit is not issued for Tri-College University parking. If vehicles have a current home-campus permit, they may be parked at the following lots on other campuses.

Concordia: TCU students, faculty, and staff can park in Parking Lot MH/C.

MSUM: TCU students can park in Lots P and K. TCU faculty and staff may park in Lots P, K, and F.

NDSU: TCU students can park in R Lot. TCU faculty and staff permits are valid for T-1 Lot.

All drivers are subject to traffic regulations of the respective institutions. Lot restrictions are eased after 5 p.m., but there is no overnight parking.

Reserve Officers Training Corps (ROTC)

Air Force ROTC/Aerospace Studies

The Air Force ROTC program is an educational and training program designed to give men and women the opportunity to become Air Force officers while completing an undergraduate or graduate degree. The program prepares students to assume positions of increasing responsibility and importance in today's modern Air Force. In order to receive a commission, Air Force ROTC students must complete all requirements for a degree in accordance with University rules and regulations, as well as complete a variety of courses specified by the Air Force.

Program Description: The four-year program begins freshman and sophomore year with the General Military Course (GMC). It takes about three to four hours a week. Here you'll learn the mission and structure of the Air Force and take a look at military life. After sophomore year, you'll attend field training. Field training is an intensive, four-week program that gives you a first-hand look at the active duty Air Force and develops your military leadership and discipline. The last two years of the program is the Professional Officer Course (POC). You earn three credits each term for the academic courses. In addition to GMC and POC, cadets attend two hours of physical fitness each week, and participate in a two hour long leadership laboratory.

Scholarships: Air Force ROTC can help you to overcome the financial hardships associated with college, and when you complete your degree you've got a guaranteed career after school. Air Force ROTC one- to four-year college scholarships

are available on a competitive basis to high school and college students. The AFROTC Scholarship Program can provide full tuition, lab fees, a monthly stipend (ranging from \$300 to \$500 a month), and money for books.

Obligation: If you're a non-scholarship student, you incur *no obligation* to the Air Force during your freshman and sophomore years of school or during summer field training. You are able to keep many options open while you take an in-depth look at the Air Force. The length of your active duty commitment after graduation is determined by the program you pursue. This commitment is normally four years for non-flying officers and longer for flying officers.

Contact Information: If you are interested in the AFROTC program through Concordia, see the Office of the Registrar for information on Tri-College registration. You may also contact the department of Aerospace Studies at North Dakota State University at 701-231-8186 or visit www.ndsu.edu/afrotc/ for more information.

Army ROTC/Military Studies

The Army Reserve Officers Training Corps (ROTC) prepares and commissions officers for the Active Army, Army National Guard, and the Army Reserves. ROTC is open to male and female students from Concordia College, North Dakota State University, and Minnesota State University Moorhead through the Tri-College program. Cadets must complete all degree requirements of their chosen major, in accordance with university rules and regulations, and complete required ROTC courses prior to commissioning as a Second Lieutenant. ROTC students also attend physical training and a hands-on leadership lab.

Program Description: The Army ROTC program consists of a two-year basic course (freshman and sophomore year) and a two-year advanced course (junior and senior year). During the basic course, there is no military obligation for non-contracted cadets and a student may withdraw at any time. Students, who have Active Duty military experience, are currently a member of the Army Reserve/National Guard, complete the Leader's Training Course, or have taken Junior ROTC may receive credit for the Basic Course. Eligible students are allowed to enter the advanced course and must agree to complete ROTC to commission as a Second Lieutenant. Advanced Course students will also complete the 29 day Leader Development and Assessment Course (LDAC) between their junior and senior years.

Scholarships: Competitive scholarships are available for qualified students. ROTC scholarships pay for full tuition, fees, and \$1,200 per year for textbooks and supplies. Students, who contract to receive a commission, are paid a monthly stipend of \$300 freshman year, \$350 sophomore year, \$450 junior year, and \$500 senior year. Scholarships are available for 2, 3, and 4 years. Army National Guard and Army Reserve scholarships

are available through the Simultaneous Membership Program (SMP). SMP cadets receive the benefits of the Army ROTC scholarship in addition to weekend drill pay and the Montgomery GI Bill.

Service Commitment: Students who decide to commission on Active Duty have an eight year service commitment after graduation; four years serving on Active Duty and the option of serving the remaining four years on Active Duty, Army National Guard, Army Reserve, or the Individual Ready Reserve. Army National Guard officers have an eight year commitment; six years in the National Guard with the option of serving the remaining two years in the Army National Guard or the Individual Ready Reserve. Army Reserve officers have an eight year service commitment after graduation.

Contact Information: For further information, call the Department of Military Science office at 701-231-7552 and ask to speak to the Enrollment Counselor or a Gold Bar Recruiter or visit the Tri-College Army ROTC website at www.ndsuarmyrotc.com. The Department of Military Science is located on the North Dakota State University campus at Bentson Bunker Fieldhouse room 103.

University Studies Major

The Bachelor of Science in University Studies is intended as an option for the following students:

- A student who wishes to develop a multidisciplinary major built around a chosen theme, or
- A student who wishes to complete a generalist degree, or
- A student who has completed most but not all of the requirements of a major or has been unable to complete a degree in a timely manner.

The major must include the following: 36 credits of a partial major program or rubric (no more than 30 credits from the areas of Accounting, Finance, Management, and Marketing may be included in the 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 College in FR153 at (218) 477-4635.

National Student Exchange

Minnesota State University Moorhead holds membership in the National Student Exchange, a cooperative relationship among more than 180 (NSE) 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 NSE must have completed a minimum of 12 graded credits, have a minimum 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.cfm.

Academic Service-Learning

Academic Service-Learning (AS-L) is a teaching/learning strategy allowing students to systematically apply course material in community based projects. Through AS-L 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. AS-L has been integrated in disciplines across the MSUM campus including Communication Studies, Accounting, Education, Music, Nursing, Paralegal, Sociology, and Social Work. Refer to the AS-L website at www.mnstate.edu/asl/ for additional information.

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

Distinction in Engagement

The Distinction in Engagement program is designed to engage students in the goals of MSUM's Mission in meaningful ways beyond the requirements of major programs of study and the Liberal Arts and Sciences Curriculum.

"Minnesota State University Moorhead is a caring community promising all students the opportunity to discover their passions, the rigor to develop intellectually, and the versatility to shape a changing world."

To graduate with Distinction in Engagement, students must document significant engagement in each of the program's six categories, as well as write a self-reflective paper on the overall experience, and prepare and present a professional resume that

includes a section on Distinction in Engagement program activities.

In each of the three areas, learning ("the rigor to develop intellectually"), service ("opportunity to discover their passions"), and citizenship ("versatility to shape a changing world"), there are two categories:

- Engagement in learning *within* the major;
- Engagement in learning *beyond* the major.

- Engagement in service *within* the University;
- Engagement in service *beyond* the University.

- Engagement in citizenship *within* the region;
- Engagement in citizenship *beyond* the region.

General Framework

- The specific requirements students complete to graduate with Distinction in Engagement can be different in major programs of study, but the overall framework and goals are shared among MSUM's colleges.
- Students must complete one engagement activity in each of the program's six categories and one of the activities must involve working as part of a team.
- Students may apply a maximum of two engagement activities that are required by the major. The two activities must be in different categories (learning, service or citizenship).
- Students who change majors and move from one College to another retain the engagement activities that have been completed, but will finish the program requirements in the College that houses the new major.
- Transfer students may apply a maximum of two engagement activities completed prior to enrollment at MSUM, one in the category of service and one in the category of citizenship, toward program completion by providing appropriate documentation.
- Students are responsible for collecting and providing appropriate documentation that the six categories have been completed, as well as the final reflective paper and professional resume.
- Distinction in Engagement will appear on the student's transcript and in the commencement program.

See your respective College Dean's office or the Academic Resource Office (FR 154) for specific participation requirements.

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, 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 Development Center website www.mnstate.edu/career and via **DragonCareers**. MSUM students are encouraged to register in **DragonCareers** via the website above to access internship opportunities and professional jobs.

Students who wish to serve an internship for university credit must meet with the Internship Coordinator in the academic major of their choice. Many of the Academic Internship Coordinators receive internship listings that are not posted on the MSUM Career Development Center website. Academic Internship Coordinators are the contacts who will assist in planning an internship experience that will enhance professional growth and meet academic expectations. Serving an internship is one way to gain related experience to strengthen a competitive edge in the job market following graduation. See the *Academic Information* section of this **Bulletin**.

International Study Opportunities

The Study Abroad Office 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 Study Abroad Office for details, or access the website at www.mnstate.edu/studyabroad/.

Chongqing: MSUM has an exchange agreement with Chongqing Technology and Business University located in Chongqing, Peoples' Republic of China. With 31.5 million residents, Chongqing is the largest metropolitan area in the world. MSUM students may study at Chongqing for a semester, a year or be a member of a summer class that attends CTBU every May.

Chung-Ang (Korea)

Spend a year or a semester at Chung-Ang University in Seoul, South Korea, one of Asia's largest cities. MSUM students can enroll in over 100 courses taught strictly in English, or take Korean language and culture courses, taught in both Korean and English. While no strict guidelines apply, applicants should hold sophomore status or higher with at least a 2.5 GPA.

Eurospring: A 12-credit program, six of which can be applicable to Liberal Arts and Sciences Curriculum 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.

Hedmark

Hedmark University College, dispersed across six campuses in southeast Norway, offers a variety of English-speaking courses in business, science and Norwegian studies, with more courses and disciplines added each year. Of particular interest is Hedmark's International Semester in Physical Education, a program built specifically for prospective PhyEd instructors, or anyone who seeks to experience a semester filled with outdoor activities. While no strict guidelines apply, applicants should hold sophomore status or higher, with a GPA of 2.5 or greater.

Kanda, Nagoya 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.

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. Eligibility requires sophomore standing, a minimum GPA of 2.5 and strong recommendations.

Manitoba: Students have the opportunity to participate in an exchange with the University of Manitoba, Canada. This exchange is particularly suitable for majors in history, political science, women's studies, and the sciences, but the exchange is open to most disciplines.

Ming Chuan University (Taiwan)

Study Mandarin language or take courses taught in English on one of two campuses in Taiwan (Taoyuan or Taipei). English courses include international business and management; journalism and mass communications applied information technology; travel and tourism; teaching Chinese as a second language. Students should have a minimum GPA of 2.5.

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.

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 Arts and Sciences Curriculum requirements if pre-approved. 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 a semester or an 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.

Ritsumeikan Asia Pacific University (Japan)

Students may study at APU, Beppu, Japan for a semester or a year. This exchange may be an excellent opportunity for students who require a study abroad experience, where they are not concentrating solely on language acquisition, as many courses are taught in English. However, students would be expected to take a Japanese language course in addition to their other courses. Students need a 2.5 GPA.

University of the Sunshine Coast: Students may study spring or fall 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.

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 Study Abroad Office in Bridges Hall 249 at (218) 477-2996. A reference library with directories, brochures, maps, videos, scholarships and other materials for study and travel abroad is located in the office.

Academic Resource Office

The Academic Resource Office is located in Flora Frick 154. The ARO has resources for all students and faculty who may have questions or concerns about majors, degree planning, advising, or available campus resources. The office serves as the home for students who have not yet declared a major and may come in for information and advice on exploring majors. The ARO houses programs such as Peer Tutoring, Academic Service-Learning, Graduation with Distinction in Engagement, College Success workshops, Freshman SOS and many others. The Peer Advisor Help Desk provides basic academic and advising information and referrals to other campus resources. The ARO's Testing Center coordinates Accuplacer and Praxis testing. For more information, call (218) 477-4318, or visit the website at www.mnstate.edu/Advising.

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 Judicial Officer, Public Safety, 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 Clinic and Counseling Center at (218) 477-2211.

Smoking and Tobacco Use/Sale Ban Philosophy:

Minnesota State University Moorhead is committed to creating a clean, safe, and healthy living, learning, and working environment, for all students and employees of the University.

Policy:

Smoking, tobacco use, and tobacco sales (including the use or sales of smokeless tobacco products) are prohibited on University-owned, -operated, or -leased property, and in University-owned, -leased, or -operated vehicles.

Definitions:

Smoking: The burning of any type of lighted pipe, cigar, cigarette, or any other smoking equipment, whether filled with tobacco or any other type of material.

Smokeless Tobacco Products: Smokeless tobacco consists of the use of snuff, chewing tobacco, smokeless pouches, or other forms of loose leaf tobacco.

Cessation Programs and Services

To support MSUM students and employees who wish to reduce and/or quit using tobacco products, a variety of tobacco

cessation resources and services are available. Refer to:

www.mnstate.edu/aod/tobacco.cfm.

Policy Enforcement

Enforcement of this policy will depend upon the cooperation of all faculty, staff, and students not only to comply with this policy, but also to encourage others to comply with the policy, in order to promote a clean, safe, and healthy environment in which to work, study, and live. The University will provide the campus community with training opportunities designed to assist and prepare students and employees to help one another comply with the policy.

In the case of a violation, the person will be informed of the University Smoking and Tobacco Use Policy. Should that person continue to violate the policy, the aggrieved party should contact the appropriate office: for University employees, the person's immediate supervisor; for students, the Judicial Office of Student Affairs; and for those not associated with the University, Public Safety.

Policy Exceptions

1. An exception for instructional purposes allows for the use of tobacco products in laboratory and classroom instruction/experiments, or artistic purposes. All research, educational, and/or artistic purposes that involve the use of tobacco on campus, must be approved in advance by the President or his/her designee. Such use must be preceded by reasonable advance notice to the public.
2. This policy does not apply to specific activities used in connection with the practice of cultural activities by American Indians that are in accordance with the American Indian Religious Freedom Act, 42 U.S.C. sections 1996 and 1996a. All ceremonial use exceptions must be approved in advance by the President of the University or his/her designee.

Alumni Foundation

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 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.

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 are school supplies, clothing, greeting cards, computers, computer software, and gift items.

Career Development Center

The Career Development Center (CDC) is a full-service center designed to assist you throughout your undergraduate years. As the home of the Exploring Dragon, we coordinate advising resources and offer a variety of major and career exploration services. Once you have found direction, we can assist you with your career development, by providing web resources, workshops, and individual appointments. The CDC sponsors many events to help connect students and employers, including the Alumni Mentorship program, networking sessions, on-campus interviewing, and job and career fairs. We also offer support to students seeking to attend graduate school. Through our web-based DragonCareers system, you may host a resume on line and connect to jobs and employers. We will continue to support you in your professional life by providing services for alumni.

Comstock Memorial Union

The 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 provide 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 with ATM
- Campus and U.S. mail drop
- Hot Heads Hair & Tanning
- Notary Public

- Student Paycheck Disbursement
- Subs & Sweets
- Union City Café
- U.S. Bank ATM
- DVD Rental Kiosk

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

- Activities Resource Center
- Advocate
- Dragon Entertainment Group
- Homecoming
- KMSC Radio
- Multicultural Affairs
- Office of Student Activities
- Orientation and Transition
- Student Senate
- Student Support Services
- Volunteer Visions
- White Earth Program

Building hours of operation are:

7 a.m. – midnight, Monday – Friday

9 a.m. – midnight, Saturday

10 a.m. – midnight, Sunday

Hours are posted on our website for holidays and breaks.

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

Disability Services

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

Disability Services 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 Director of Disability Services, Flora Frick Hall 154, 218-477-4318 (Voice); 218-477-2420 (FAX) or 1-800-627-3529 (MRS/TTY). For more information, please visit the Disability Services website at www.mnstate.edu/disability/.

Dragon Jobs

The Dragon Jobs 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/.

Dining Facilities

MSUM offers a complete on-campus dining experience. Students will enjoy a filling and tasty breakfast, lunch, and dinner in the recently remodeled Kise Commons. Housing & Residential Life requires Residence Hall students to purchase a meal plan. Students may choose the meal plan that best suits their eating habits and budget. Students who live off-campus, as well as faculty, visitors and guests can enjoy meals at the dining facilities. Meal-plan contracts run per semester, and include the following options: 10, 14, and 21 meals per week; 120 and 250 meals per semester; and the Dragon Plan (works like a pre-paid credit card to purchase meals at the student's discretion). Freshmen are prohibited from selecting the Dragon Plan. Students may benefit a per meal cost savings depending upon which meal plan they choose. Diners can use Cash, Credit/Check Card, and Dragon Dollars (MSUM Coupons) to purchase single meals. For further information about meal plans contact the Dining Service office located in Kise Commons at (218) 477-2836 and the Housing & Residential Life office located in Ballard Hall at (218) 477-2118. John Neumaier apartment residents, though not required, can purchase a meal plan at the on-campus rate. Apartment contracts do not automatically include meal plan contracts or Dragon Dollars. Off-campus student meal contracts are available at Housing & Residential Life.

Early Education Center

The mission of the Early Education Center is to provide high quality care and developmentally appropriate educational and social opportunities for university students' children who are between 16 months and 6 years. If space allows, children of faculty, staff and community may attend. The program also serves as an exemplary inclusive model demonstration site and is based on current theory and research. Early Childhood Education and Elementary Education student teachers are assigned to this lab site to work under the supervision of the center's teachers. Elementary & Early Childhood Education, Special Education, Physical Education, School Psychology, Nursing, Social Work, as well as Speech/Language/Hearing Science majors utilize the center for a variety of purposes such as observations, research and practicum experiences. For further information, call the Director at (218) 477-2214.

Hendrix Clinic and Counseling Center

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

Health Insurance

Minnesota State University Moorhead has adopted a policy that requires all undergraduates registered for six or more on campus credits to have health insurance.

Before students register they will be prompted to complete an online form that will ask them to confirm that they have health insurance and to identify their insurance company.

If a student does not have health insurance they would then be automatically enrolled in the University policy through United Health Care. The cost of the policy would be charged to the student account. The Student Health Insurance Policy can be viewed at www.uhcsr.com/.

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.cfm, and is filed in Hendrix Clinic 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.

Instructional Media

Instructional Media Services has professional staff to advise and assist in the technical and production aspects of your project or presentation. Our staff provides consultation, design and production services to support teaching, learning, and research activities. Faculty, students, and staff are charged only for material costs, and any applicable service charge for classroom projects.

Services include:

- Classroom Services
 - Assistance with classroom presentation needs
 - Training and orientation with classroom technologies
 - Some checkout equipment
- TV Center:
 - Video and audio projection
 - Streaming media production
 - Electronic media conversion and duplication
- Interactive Television™
 - Videoconferencing support for meetings and classes

Instructional Media Services is located in Livingston Lord Library 108. Contact Instructional Media at (218) 477-2233, media@mnstate.edu, or www.mnstate.edu/media/. Services are generally scheduled by appointment.

Livingston Lord Library

The Livingston Lord library is a four-story facility serving approximately 1,500 students a day with a team of dedicated faculty, staff, and student assistants. The Library includes a computer and instruction lab with 26 computers, and an additional 48 computers in the building and a comfortable Reading Area on the first floor. The Library also features student and regional artwork on a rotating basis. The Library subscribes to numerous electronic databases with many full-text resources, gives access to the Tri-College University Library and statewide collections, and many services supporting student, faculty, staff, and community information needs. Special collections include:

- A Curriculum Materials Center with a 28,000-volume children's book collection
- Popular books, current magazines, and newspapers
- Minnesota and U.S. government documents
- 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" email reference (email: refdesk@mnstate.edu) and chat reference
- Quiet and collaborative zones
- Wireless access points
- Electronic Course Reserves
- Service to distance learners

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

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, 1616 9th Avenue South, Moorhead (Security 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/.

Public Safety

The Public Safety Department is located at 1616 9th Avenue South. The Public Safety 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, three Public Safety Officers, a Communications Specialist, and Parking Coordinator, 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 Public Safety Dispatch Center is staffed on a 24-hour basis (2449). Public Safety staff patrol the university parking lots, academic buildings, residence halls, and the campus grounds 24 hours a day, 7 days a week.

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

The Public Safety Department is responsible for completing the Annual Campus Crime Report. The report also contains policies and procedures concerning safety and security on the campus of Minnesota State University Moorhead. Minnesota State University Moorhead's Annual Campus Crime Report is available online 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, Clay County Sheriff's Department, or the Moorhead Police Department.

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.

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.

Regional Science Center

The Regional Science Center provides programs at two sites: The Buffalo River Site, which 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, and the Planetarium which is located on the MSUM campus.

The Buffalo River Site provides outreach programs in natural history to area K-12 students. The Buffalo River Site is also used as a field site for university level field science courses and for field-based research. The site is also the location of the Paul P. Feder Telescope Observatory. The observatory is used by astronomy classes as well as in asteroid research.

The Planetarium located in Bridges Hall 167 and containing a Spitz 512 Projector, 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 leading realism and atmosphere to the presentations. The planetarium is used extensively by astronomy classes. It also provides programs for elementary and secondary school classes and for the general public. University students are involved in the Regional Science Center as Honors Apprentices, part-time employees, and volunteers. 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.

Residence Halls

MSUM houses nearly 2,000 students in its six residence halls and one apartment building. Student attendants, known as Resident Assistants, play a huge role working with University management to supervise close to 50 students per floor in the residence halls.

Rooms come with some furnishings and amenities such as a bed, cable television and Internet. Students bring personal items, linens, blankets, towels, pillows, and decorations. Facility improvements and maintenance are continuous.

The John Neumaier Hall apartment building houses 144 students. Apartments come with kitchen, dining table and four chairs, dishwasher, two bedrooms (two beds per room), two full bathrooms, four desks with chairs, and electric furnace for air conditioning and heating. John Neumaier residents pay electricity per apartment.

University Area Directors live on campus and supervise facility staff and services full-time. Housing Desk Managers and Resident Assistants, along with the halls' student government organizations, plan and coordinate social, recreational, and cultural activities.

Student Housing Capacity

Ballard Hall (Built in 1950)	165
Dahl Hall (Built in 1958)	293
Snarr Hall (Built in 1963-1967)	453
Grantham Hall (Built in 1965)	200
Nelson Hall (Built in 1966)	373
John Neumaier Hall (2002)	142

Housing Policies

Once admitted to MSUM, apply for a housing room assignment online at www.mnstate.edu/housing/, or fill out an application form/contract in the Housing & Residential Life office in Ballard Hall 8 a.m.-4:30 p.m. Monday-Friday. For further information call (218) 477-2118.

MSUM requests off-campus students to notify the Records Office of address and telephone number changes.

Russell and Ann Gerdin Wellness Center

The Wellness Center is open to registered MSUM students who have paid their student fees. Wellness activities are coordinated by a certified Fitness Specialist who is available for individual and group training sessions. For more information, please visit the Center website at www.mnstate.edu/hendrix/wellness/.

Speech and Hearing Clinic

The MSUM Speech and 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 referrals to other agencies as needed. The clinic serve those who need help with articulation, language, memory and cognitive issues, communication issues related to autism spectrum disorder, fluency, voice, English as a second language, swallowing issues, or assistive technology. Our audiology department provides hearing evaluations and evaluations for auditory processing disorders. Our clinic is located in Murray Hall. For more information, call (218) 477-2286 or email us at slhs@mnstate.edu.

Student Conduct and Resolution

The Student Conduct and Resolution 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, mission and goals of Student Conduct and Resolution. Visit www.mnstate.edu/oscar/.

Student Conduct and Resolution information is also published in the annual Student Handbook/Planner. University policies and procedures published include: Alcohol and Other Drug Policy, Student Appeal and Grievance Procedure, Sexual Violence Policy and Procedure, Smoking and Tobacco Use Policy, Student Conduct System, and the Student Conduct Code including institutional expectations regarding academic integrity is available in the Student Handbook/Planner.

Veterans Resource Center

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) 477-2080, or stop by Flora Frick Hall 149 between 8:00 a.m. and 4:30 p.m.

Women's Center

The mission of the Women's Center is to empower women and fulfill its vision by promoting feminist activism and women's

self-determination. The Women's Center educates the campus community and creates a space for students, faculty, and staff to socialize and share ideas in a respectful manner. The Women's Center advocates an understanding of the intersection of multiple forms of oppression and how they affect women's lives.

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 Bridges Hall 154. For more information, call (218) 477-4973.

Write Site

The Write Site, located in Lommen Hall 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.

Students may call (218) 477-5937 for an appointment, or walk in without an appointment for first come/first served help. The email address is writectr@mnstate.edu. Visit the Write Site at www.mnstate.edu/write/ for additional information.

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	

Art Activities

Throughout the academic year the Department of Art & Design and its student organizations sponsor numerous student activities including: workshops, lectures, field trips, exhibitions, and special events. Many of these events are free and open to the entire University and surrounding community.

Film Activities

During the academic year, the Film Studies Department sponsors a variety of student activities through the Cinethusiasts Film Club. Activities include film festival field trips, student club projects, and film/video screenings. These opportunities are open to all students on campus regardless of major. For more information, please contact the main office at 218-477-4622.

Music Performance Activities

Band	Woodwind Ensemble
Wind Ensemble*	New Music Ensemble
Orchestra	Festival Men's Choir
Jazz Ensemble*	Festival Women's Choir
Vocal Jazz*	Opera Workshop*
Commercial Ensembles*	Concert Choir*
Percussion Ensemble	Jazz Combos*
Flute Ensemble	Saxophone Ensemble
Guitar Ensemble	Small String Ensemble
Trombone Choir	Bass Ensemble

*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.

Peer Advisor Program

The Peer Advisor program supplements the faculty advising program. Approximately 40 Peer Advisors are chosen each year

from students recommended by departments and faculty to assist with the registration of incoming freshmen. These students are trained to be knowledgeable about the institution's academic requirements and resources and must maintain good academic standing. This program is supported by the Academic Resource Office in Flora Frick 154.

Student Organizations

MSUM has over 130 student organizations on campus. Student organizations are separated into the following categories: Academic Culture and Language, Greek Life, Honorary, Publications, Religious, Residence Halls, Service, Special Interest, and Sports and Recreation. Current listings and information regarding student organizations can be found in the Office of Student Activities, CMU 222, (218) 477-2790, or by visiting the website at www.mnstate.edu/osa/.

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. For more information see www.mnstate.edu/studentssenate/.

Theatre Activities

During the academic year, the Theatre Arts Department sponsors a variety of student activities, including several productions (drama, comedy, musical theatre, children's theatre, classic, and contemporary), workshops, field trips, and special events through several student theatre organizations. These opportunities are open to all MSUM students regardless of major. During the summer, The Straw Hat Players, the region's only professional summer stock theatre program, provides additional opportunities for interested MSUM students. All production participation requires an audition. For more information, please refer to www.mnstate.edu/theatre/ or contact the main office at 218-477-2126.

Office of Admissions

102 Owens Hall

Minnesota State University Moorhead

1104 7th Avenue South

Moorhead, MN 56563

website: go.mnstate.eduemail 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 9:30 a.m. and 1:30 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.

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 composite score 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 Nursing Program in the School of Nursing and Healthcare Leadership

Registered Nurses (RN) with an associate degree or diploma who are interested in completing their BSN degree must first apply and be accepted at MSUM and then apply to the nursing program. Program information and application deadline dates are available at www.mnstate.edu/nursing/.

Admission to the School of Business

Students interested in pursuing a business field may choose from School of Business majors in Accounting, Finance, or Business Administration with an emphasis in Management, Marketing, International Business, or Business Administration. 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* in the Curricula section of this **Bulletin** for further details on the School of Business admission process.

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 (61 Internet-based) or higher are acceptable for admission for undergraduate students. Graduate students require a TOEFL score of 550 or better (80 Internet-based), and graduate students admitted to the Master of Liberal Arts program require a TOEFL score of 600 or higher (100 Internet-based). The ELS score of 112 or higher will be accepted in lieu of the TOEFL score for undergraduate English proficiency. The IELTS scores of 5.5 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.

International Student Tuition

Minnesota State University Moorhead will grant in-state tuition to international students who have demonstrated academic potential. In order to continue to receive the in-state tuition waiver beyond the first year, students must maintain academic good standing (2.00 GPA for undergraduate students and a 66% course completion rate; graduate students must maintain a 3.00 GPA), keep in status with the I.N.S., and demonstrate satisfactory progress toward a degree. Students must also complete 10 hours of voluntary service each semester at MSUM or within the community. 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.

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 I-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. See *Transfer Admission Requirements*. Students who have been accepted to Minnesota State University Moorhead and who wish to transfer credit from colleges or universities outside the United States must provide Minnesota State University Moorhead with a course-by-course evaluation from Educational Credential Evaluators, Inc. www.ece.org/. The costs of the evaluation will be paid by the student. In the case of an international student, this process should be started as soon as the student receives his or her visa. Students participating in study abroad programs with consortium agreements that allow courses to be pre-approved for transfer are not required to have their courses evaluated by ECE. Upon receipt of the official transcript, courses will be verified by the Academic department, Records Office or the Study Abroad Office. If, however, a course has not been pre-approved, it may be necessary to have the course evaluated by ECE at the student's expense.

If a student has already completed a course-by-course evaluation from another National Association of Credential Evaluation Services (NACES) member, he or she can submit this evaluation to the Records Office.

Transfer Admission 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.
- Post-secondary transcripts from universities outside the United State must be evaluated to determine course transfer. MSUM requires a comprehensive course-by-course transcript evaluation be done by Educational Credential Evaluators (ECE) www.ece.org/. This company specializes in the evaluation of international courses and will determine how credits will transfer into Minnesota State University Moorhead.
- **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*.

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 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.

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 Academic Resource Office, Hendrix Health and Counseling Center, and the Non-Traditional Student Association. For more information, contact the Admissions Office, (218) 477-2161.

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 Admissions Office at (218) 477-2161 for information on admissions requirements.

Any interested students should contact the Admissions Office at (218) 477-2161 for enrollment information, and the Academic Resource Office at (218) 477-4318 for registration information and other support services. 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

Students 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. To apply for this option, students must submit:

1. Completed Early Enrollment form with signature from the high school principal or counselor granting permission to participate in early enrollment
2. Completed MSUM application for freshman admission
3. \$20 application fee
4. High school transcript and courses in progress

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 Admissions Office, (218) 477-2025.

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.

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. Purchase of a computer is not required by MSUM, but some departments/programs may require purchase of specific computer hardware and/or software.

Tuition/Fee Rates

Tuition and fees are set by the Board of Trustees of the Minnesota State Colleges and Universities System and are subject to change without notice. Tuition and fee rates for the academic year and summer session are available online at: www.mnstate.edu/busoff/tuitionfees/.

Non-Resident/Reciprocity Students

The above benefit does not apply to any resident of a reciprocity state (North Dakota, South Dakota, and Wisconsin). Residents of North Dakota, South Dakota, and 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.

North Dakota and Wisconsin students attending Minnesota State University Moorhead are able to access the reciprocity application forms on the web.

North Dakota students: www.ohe.state.mn.us/hesod/NDReciprocity/apply1.cfm.

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

South Dakota students receive reciprocity automatically if they indicate South Dakota residency status at the time of application. North Dakota and Wisconsin students will be charged reciprocity tuition rates once the state reciprocity has been approved. If students 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 High School do not need to file an application. Students who transfer to MSUM must file a new reciprocity application 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, students 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 agency 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 submitted 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, and 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 eligible for resident tuition at Minnesota State University Moorhead. Please address any questions about Minnesota-Manitoba reciprocity to the MSUM Registrar.

Payment of Tuition/Fees

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 \$300. 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 NSE or exchange student who pays tuition/fees at their home institution.
OR
5. The student has an **active** payment plan with the university approved payment plan provider.
OR
6. International Students must pay a minimum down payment to tuition and fees of \$300.00, AND their entire mandatory health insurance.

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.) See the Business Office website for current information: www.mnstate.edu/busoff/.

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 Payment

Tuition and fee payments that are made after the last scheduled payment day are late and subject to a surcharge of \$80.00. This late fee charge will be assessed on all accounts not paid in full by the established payment deadline for each term.

Late Fee Waivers and Payment Plans:

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/Fees 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 from all courses or discontinue enrollment during the Fall or Spring semesters should begin the process at the Hendrix Clinic and Counseling Center. 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

1 st through 5 th business day of term	100%
6 th through 10 th business day of term	75%
11 th through 15 th business day of term	50%
16 th through 20 th business day of term	25%
After the 20 th business day of term	0

Summer Sessions and other terms at least three weeks but less than ten weeks in length

1 st through 5 th business day of term	100%
6 th through 10 th business day of term	50%
After the 10 th business day of term	0

Summer Sessions and other terms less than three weeks in length

1 st business day of term	100%
2 nd and 3 rd business day of term	50%
After 3 rd business day of term	0

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, SMART, ACG and SEOG Grants):

- Federal regulations require repayment of ‘unearned’ aid for students withdrawing or who discontinue attending class any time 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'.
- Federal aid is first used to pay University charges.
- 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 a total withdrawal from the University, may file a Tuition Refund Appeal.

Appeal forms are available on the web at www.mnstate.edu/busoff/ or at the Business Office, Records Office, and the Hendrix Clinic and 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 Financial Aid and Scholarship Office to discuss the impact on their aid 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

Students that intend to live in a university residence hall, 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 internet access service for each semester of the year) are available by calling the MSUM Housing Office, (218) 477-2118.

Senior Citizens

Residents of Minnesota, North Dakota, South Dakota and Wisconsin age 62 or over or a Minnesota resident receiving a railroad retirement annuity who has reached 60 years of age before the beginning of the term 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. Senior citizens also must bear the cost of any laboratory or course fees, regardless of whether credit is earned or not. Contact the Records Office for additional information.

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 is available from the Office of Scholarship and Financial Aid and online at www.mnstate.edu/finaid/.

Application for Financial Aid

Financial aid awards are made for newly admitted and 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 each year. Additional documentation, including signed tax returns, W-2's and the 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 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 an undergraduate 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.

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 applicants). Any change in a student's financial resources (i.e., receipt of grants, educational loans or scholarships from non-university sources, military benefits and/or tuition reimbursement) must be reported to the Office of Scholarship and Financial Aid. Aid received from all sources 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. Full-time payment of Federal Pell, Federal SEOG or Federal Perkins, requires enrollment in 12 or more undergraduate credits per term and prorate for less than 12 credits. Pell Grant 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. Minnesota Grant payments are computed on average tuition and fee charges for three to fifteen credits. Scholarships are generally paid only to students enrolled full-time (12 or more undergraduate credits per term).

Last Day of Attendance

Financial aid recipients who unofficially withdraw and receive all F's, FN's, I's, IP'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 under current regulations, Pell and Minnesota

Grant eligible students may receive a third payment 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 \$5,550 per year from the Federal Pell Grant program (2011-2012). Determination of eligibility is not made by the University but through the FAFSA application. Eligibility is limited to 18 semesters for students receiving Pell Grant for the first time in 2008.

Minnesota State Grant

Minnesota residents who enroll at MSUM may qualify for aid through the Minnesota State Grant Program with eligibility for up to nine semesters of full-time equivalent enrollment. Awards are prorated when enrollment is less than 15 credits per term. Students must apply annually by submitting a FAFSA prior to the 30th calendar day of the semester of attendance.

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. Most require enrollment in at least 12 undergraduate credits each semester. 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 \$5,500 annually and up to a total of \$27,500 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 \$5,500 to \$7,500 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. Students may borrow up to \$10,000 per year, based on grade level. 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 parents or graduate students 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 parents and students. The interest rate is 7.9 percent. Before applying for a Federal PLUS, apply for all other types of financial aid.

Alternative Educational Loans

Intended for students who have a gap between their cost and financial aid. A separate application is needed and submitted on the web. 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 Dragon Jobs (located in the Office of Scholarship and Financial Aid) or online at: www.mnstate.edu/dragonjobs/.

International Student Assistance

All international students attending MSUM will be eligible for a Minnesota Resident Tuition Scholarship. In order to be eligible for the scholarship, each semester, students must complete 10 hours of voluntary service at MSUM or within the community and maintain satisfactory academic progress. All international students will be eligible for the Minnesota Resident Tuition Scholarship beginning their first semester. All international students must meet the following qualifications:

Total required volunteer hours per semester is 10, with a minimum of 3 volunteer hours must be at an MSU Moorhead event on or off-campus. Only professional staff and graduate assistants can sign as supervisors on the volunteer hour form. Standard academic progress: this is defined as maintaining a 2.0 Cumulative GPA and a 67% course completion rate.

Students transferring from a US College or University and Exchange students will be given Minnesota Resident Tuition the first semester they are here.

Non-U.S. residents attending 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 Services Office 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 studentloans.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 studentloans.gov/. Federal Perkins loan borrowers are sent entrance counseling materials with their award information and are required to do exit counseling before leaving school.

Policy Standards for Financial Aid Satisfactory Academic Progress (Effective Fall Semester 2011)

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).

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 - 26 credits:	1.6
27 - 59 credits:	1.9
60 or more attempted credits:	2.0

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

Quantitative Standard (Pace): 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). Transfer credits accepted and applied to the student's program requirements count as credits attempted and completed for calculation of cumulative completion percentage.

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 any transfer credits accepted and applied toward the student's general education, program or degree requirements. Grades of Failed (F), Failure for Non-Attendance (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.

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 exceeds the maximum credits attempted standard, the student is suspended from financial aid eligibility.

- A. Programs that require longer than the maximum credits attempted 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.

If at the end of a semester a student fails to meet MSUM Satisfactory Academic Progress completion percentage standards, MSUM will allow that student to retain his or her financial aid eligibility under a **warning status** for one semester.

- A. If at the end of the warning period, a student meets MSUM's **cumulative** quantitative standards, MSUM will end the student's warning status.

- B. If at the end of the warning period a student fails to meet MSUM's cumulative quantitative standards, the student will be placed on **financial aid suspension**.
- C. Students may immediately be suspended from financial aid eligibility in the event of extraordinary circumstances where it becomes readily apparent that a student has not maintained satisfactory academic progress.
- D. 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.

In addition to the **financial aid suspension**, if at the end of an academic warning period a student does not meet MSUM's **Cumulative** GPA standard (qualitative), the student will be placed on **suspension from class enrollment**. The first academic suspension is for one semester; a second academic suspension is for one calendar year; a third suspension is for two calendar years.

Students who have been placed on suspension status at one MnSCU institution shall not be eligible for financial aid at any MnSCU institution until they have successfully appealed to have their suspension status removed at the new school.

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 (including but not limited to major illness, death in the family, serious accident, etc.), or the successful completion of additional coursework. The appeal must state why the student failed to make satisfactory academic progress and what has changed in the student's situation that would allow the student to demonstrate satisfactory academic progress at the end of the semester. Each case is reviewed individually. The Office of Scholarship and Financial Aid informs the student in writing within seven business days of its decision, provided adequate documentation was submitted by the student.
- B. If the appeal is approved, financial aid eligibility will be reinstated for a **probationary semester**. Written notification will include the standards the student is expected to meet in order to retain financial aid eligibility at the end of the semester.
- C. If at the end of a probationary semester, the student meets MSUM's **probationary term requirements** (minimum 2.0 GPA and 100% completion of credits attempted that semester, or other student specific academic plan) but has not met MSUM's cumulative quantitative 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** quantitative standards, at which time the student will be returned to “good standing”.

- D. If a student on “continued probation” status fails to meet MSUM’s quantitative cumulative standards or the standards required for the **probationary semester**, MSUM will suspend the student from financial aid eligibility.
- E. If the appeal is denied, written notification will state the reason(s) for the denial and the process for appealing the denial.
- F. If a student is not satisfied with an adverse decision, subsequent appeals are submitted to the University Financial Aid & Suspension Appeals Committee.
- G. Academic Suspension status for insufficient GPA may be appealed to the Academic Affairs.

Notification:

Students who fail to meet the minimum standards will be notified by letter when they are placed on warning 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.

Re-establishing Eligibility after Financial Aid 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 **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

Academic Forgiveness:

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

Academic Plan:

A student who successfully appeals for reinstatement of financial aid eligibility is placed on probation and may be required to complete specific requirements contained in an academic plan developed for that student by the university.

Academic Year:

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

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.

Calendar Year:

The period from January through December.

Consortium Agreements, Tri-College, Credits Enrolled At Other MnSCU Schools, Study Abroad, State University Common Market, ISEP, NSE and other travel programs:

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

Evaluation Period:

Satisfactory Academic Progress is measured at the end of each term.

Financial Aid Suspension:

A student on financial aid suspension is not eligible to receive financial aid.

Maximum Time Frame:

The maximum number of cumulative attempted credits within which a student must complete his or her academic program.

Probation Status:

A student has successfully appealed a financial aid suspension and regains his or her financial aid eligibility for one evaluation period, after which he or she must either have met the university’s cumulative GPA or Completion Percentage standards or have successfully completed the probationary term requirements set by the university.

Qualitative Measure:

The Grade Point Average (GPA) a student must maintain in order to retain financial aid eligibility.

Quantitative Measure:

The “pace” at which a student must progress through his or her program in order to retain financial aid eligibility.

Remedial/Developmental Credits:

Identifies credits attempted for courses numbered less than 100, including Corrick Center 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, 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 passing grade, the course may not be retaken again for a higher grade *unless* the student's program of study requires a specific, minimum grade. A student cannot receive financial aid for more than one repetition of a previously passed course.

Required Completion Percentage:

The percentage of cumulative attempted credits that a student must successfully complete in order to retain financial aid eligibility.

Transfer Credits:

Transfer credits accepted by and applied by MSUM toward a student's general education, program or degree requirements apply toward the percent completion and maximum credits attempted calculations. Grades associated with these credits are not used in calculating MSUM's cumulative GPA.

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 and S. 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:

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

Warning Status:

A status under which a student shall continue to retain her or his financial aid eligibility for one evaluation period despite a determination that she or he has not met either an institution's grade point average standards, or completion percentage standard or both.

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.

Scholarship Funds**Minnesota State University Moorhead Scholarship Program**

Through the MSUM Alumni Foundation and the Charles and Ellora Alliss Foundation, MSUM awards more than 1,000 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 \$5,000 includes the unique opportunity to apprentice in an academic or administrative department for five hours each week, acquiring hands-on mentoring and training skills. This award is renewable for an additional 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 and Opportunity Grant

A need-based scholarship awarded to selected candidates from a culturally diverse background. The scholarship is \$5,000 and renewable for up to three years. April 1 deadline.

Academic Excellence Award

Students who are National Merit Finalists are awarded \$3,500 per year, renewable for an additional 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.

Founders Scholarship

A \$2,500 need-based scholarship awarded to selected freshmen or transfer students who embody exemplary characteristics of success, service and citizenship.

President's Honors (\$2,000), Valedictorian (\$1,500), Dragon (\$1,500), Achievement (\$1,250) and University (\$1,000) Scholarships

Automatic awards made on a first-admitted, first-awarded basis to new freshmen. The Scholarships are for four years. These scholarships are awarded until funds are fully committed. Nor separate application is required.

Talent Scholarships

Available to students who demonstrate exceptional talent in areas of visual or performing arts (art & design, music, communication studies, film studies, 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. \$5,000 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. (**Note:** Students eligible for the second year of a freshman renewable scholarship are not eligible to concurrently receive an Upper-class Academic Scholarship.)

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

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.

The University discloses educational records without written consent of the student to officials of another educational agency or institution where a student is enrolled or seeks or intends to enroll if:

- The forwarding school includes in its annual FERPA Policy Notice to students a statement that it forwards records to other educational agencies or institutions that are requested by the concurrent enrollment or transfer school; or
- If not included in the Notice, the forwarding school must make a reasonable attempt to notify the student at his/her last known address unless the disclosure is initiated by the student.
- 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, email 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, Academic Affairs and Student Affairs.

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 offering a variety of start and end dates comprised of three, four, five, six and eight-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.

Academic 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 dean of the college that offers the course.

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.

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 understands 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.

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.

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.

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” and “FN” are included in computing the GPA.

In Progress Grades

The grade of in progress or “IP” is reserved for special cases and means that the particular course is not designed to be completed by the end of the term. An “IP” must be made up by the student during the next year in which they are enrolled, unless other arrangements have been made with the instructor. If the instructor does wish more time to be granted, they must file an extension with the Registrar. When in progress grades are not made up within the specified time, they automatically become either an “F” (graded courses) or a “NC” (P/N courses). When an in progress grade is made up, the instructor reports the completed grade to the Records Office using a Grade Change form. Students making up an in progress grade should not re-register for the class.

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 Provost and Senior 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.

Pass-No Credit Grades

- Students with sophomore, junior, or senior standing may take courses for Pass-No Credit grades in areas outside the major or minor discipline.
- No course with Pass-No Credit grades may be applied to Liberal Arts and Sciences Curriculum.
- 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. Summer Session dates vary based on the length of individual sessions; refer to Drop Dates posted on the Records Office website at: www.mnstate.edu/records/.

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 - refer to *Financial Aid*).

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.

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 found at www.mnstate.edu/records/ one week prior to 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.

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 available online. Inquiries about off-campus courses should be directed to the Records Office at (218) 477-2565.

MSUM / MSCTC Course Exchange Registration

Students enrolled at Minnesota State University Moorhead or Minnesota State Community and Technical College may complete a portion of their coursework at the other institution through a course exchange agreement. Courses designated by each institution will be available on the term schedule.

To register for a course:

- Students must meet with their academic advisor.
- Students must meet minimum academic requirements set by both the home and host institution.
- Registration will be completed via an arrange slip.
- Students will pay the host institution tuition rate(s) and the home institution fees (limited to student association, student activity/life and technology fees).
- Students must observe all registration policies of their home institution, including arrangements for withdrawals, pass/no-credit, and incompletes.
- Student appeals related to an exchange course will follow the host institution appeals process.

Credits earned in exchange courses at MSCTC are considered as resident credits at MSUM if the credits are registered at MSUM.

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

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.

Auditing Courses

Students who wish to audit or attend a course without seeking credit must be admitted to the University, be registered 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. Summer Session dates vary based on the length of individual sessions; refer to Drop Dates posted on the Records Office website at www.mnstate.edu/records/, 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.

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. The subsequent grades will be averaged in the GPA computation. Courses taken for regular A-F grades may not be repeated for Pass-Fail grades. To assure that the GPA is corrected; students must submit a "Repeated Course" form to the Records Office. All course attempts will remain on permanent academic records. All repeated courses are noted on the transcript to indicate the course was repeated in a following term and excluded from cumulative totals. A student cannot receive financial aid for more than one repetition of a previously passed course.

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 Examination for Credit.

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 College Dean.

No student may register for more than 20 credits without an Excess Credit Permit. See College Dean for an override.

Examination for Credit

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.

Advanced Placement Credit

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 Liberal Arts and Sciences Curriculum requirements.

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 in which 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.

Students who have been admitted to a degree program at MSUM and completed a minimum of 16 credits with a GPA of 2.0 or better are 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 University College at (218) 477-2344.

Military Training or Service Credit

Minnesota State University Moorhead uses the American Council on Education (ACE) "*A Guide to the Evaluation of Educational Experiences in the Armed Services*" military learning. ACE translates military courses and occupations into academic credit, provides guidelines to interpret and recommend credit for formal service-school courses, demonstrated proficiency in military occupations, and college-level tests.

Credit for Army training may be obtained by requesting that an official transcript from the Army/American Council on Education Registry System be sent directly to MSUM Records Office.

Credit for Sailor and Marine training may be obtained by requesting that an official transcript from the Sailor/Marine American Council on Education Registry Transcript (SMART) be sent directly to MSUM Records Office. Service members must have separated or retired from active duty on or after October 1, 1999.

Credit for Air Force training may be obtained by submitting a request to the Community College of the Air Force or go to your nearest Air Force base education office. Service members with credits/training for the Army pre-1981 and Sailors/Marines pre-1999 must request a DD295 and submit it for your college credit award review. Students should discuss the possibility of such credit with the MSUM Registrar.

For more information go to the following websites:

www.mnscu.edu/military/index.html (MnSCU Resources for Veterans and Service Members)

www.acenet.edu/AM/Template.cfm?Section=Home

(American Council on Education) aarts.army.mil/(Army)

www.military.com/education/content/timesaving-programs/sailor-marine-american-council-education-registry-transcript.html (Navy/Marine)

www.au.af.mil/au/ccaf/index.asp (Air Force)

www.uscg.mil/hq/cgi/active_duty/go_to_college/official_transcript.asp (Coast Guard)

International Baccalaureate Credit

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 Liberal Arts and Sciences Curriculum requirements. 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.

College Level Examination Program (CLEP)

The Records Office at Minnesota State University Moorhead will provide information about the College Level Examination Program (CLEP).

Credit will be awarded for successful performance with a minimum score of 50 or higher on CLEP examinations, with the exception of Level 2 foreign-language examinations, for which a minimum score of 60 for German language, 59 for French language, and 63 for Spanish language is required. These scores conform to recommendations made by the American Council on Education (ACE) and comply with M.S. 120B.131 pertaining to eligible high school students. Three of four semester credits will be awarded 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 are currently enrolled in courses in the same subject.

Following are the approved Subject Examinations:

American Government

American History I and II

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

Credit earned by CLEP examination may be applied to Liberal Arts and Sciences Curriculum 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.

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 credit from nationally accredited schools on the CHEA/US DOE list will be reviewed for transfer credit acceptance on a case-by-case

basis. Please contact the Transfer Specialist in the MSUM Admissions Office for additional information.

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

Courses similar to those allowed for the Liberal Arts and Sciences Curriculum requirement at Minnesota State University Moorhead will usually be considered equivalent for the purpose of meeting course requirements. Transfer students who complete the Minnesota Transfer Curriculum or Associate of Arts (AA) degree will be waived of MSUM's Liberal Arts and Sciences Curriculum. Otherwise, transfer students must complete 42 credits in Liberal Arts and Sciences Curriculum courses and meet all distribution requirements. Transfer students must also meet MSUM's Writing-Intensive 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 schools outside of the Minnesota State Colleges and Universities system, except as required by the Minnesota State Colleges and Universities system.

Transfer credits will not be entered on students' permanent record at MSUM unless they are applicable to their degree program. 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 official transcripts from the original credit issuing institution.

Transfer Appeal Policy

Transfer students have the right to appeal an evaluation decision. They should complete the appeal form, and provide the Records Office with a course syllabus, course description, or reading list. The committee will review the appeal and the student will receive, in writing, the outcome of the appeal. If a student is not satisfied with a college or university transfer appeal decision, the student may appeal the college or university transfer appeal decision at the system level to the Senior Vice Chancellor of Academic and Student Affairs. The

decision of the Senior Vice Chancellor shall be binding on all system college and university parties.

Usual appeal steps are:

1. Student fills out an appeal form. Students may also include supplemental information such as: a course syllabus, course description, or reading list.
2. Department or committee reviews appeal.
3. Student receives, in writing, the outcome of the appeal.
4. System level appeal. If a student is not satisfied with a college or university transfer appeal decision, the student may appeal the college or university transfer appeal decision at the system level to the Senior Vice Chancellor of Academic and Student Affairs. The decision of the Senior Vice Chancellor shall be binding on all system college and university parties.
5. At student's request, a review of eligibility for financial aid or scholarships may be made.

For help with transfer questions or problems, see campus transfer specialist.

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 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 Academic Resource Office (FR 154) 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.

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 through the fifth class day of the term, except for courses which begin later in the semester, or in special circumstances approved by the Registrar.

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

- **Fall-Spring:** by the end of the eleventh week (55th class day).
- **Summer Semester:** dates vary based on length of course. 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 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. If the course begins in the second half of the semester, the tuition and fees are fully refundable for seven days 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 Hendrix Clinic and 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 Records Office, Owens 104.

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.

Academic Honors

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.

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

Graduation Requirements

Associate Degree

Minnesota State University Moorhead offers the two-year Associate in Arts (A.A.) degree in Liberal Arts. The degree requires:

- At least 60 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 Arts and Sciences Curriculum, 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 Arts and Sciences Curriculum requirements of 14 courses minimum (42 credits minimum) that includes English 101 (or an approved alternative) and two additional Writing-Intensive (W) courses. 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 Liberal Arts and Sciences Curriculum course from the student's major rubric in each of the Inner, Middle, and Outer Clusters.
- Completion of the AA application, with the advisor signature, and submission to the Records Office. Questions should be directed to the Records Office.

Bachelor's Degree

- 120 credits are required for all bachelor of arts degrees and a select number of bachelor of science degrees. Most bachelor of science degrees require 120 credits while a few 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 Trustees of the Minnesota State Colleges and Universities system. 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 and transfer students who have not completed the Minnesota Transfer Curriculum will satisfy the University's general education requirement by completing the requirements of the Liberal Arts and Sciences Curriculum. Completion of Liberal Arts and Sciences Curriculum requires 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.

- Incoming freshmen must complete five writing-intensive (W) courses at MSUM: Refer to the Writing Matters website at www.mnstate.edu/acadaff/UnivWriting/Courses.htm for a list of approved courses.
- English 101 (or an approved alternative)
- One Writing-Intensive course in Liberal Arts and Sciences Curriculum.
- One 300 / 400-level Writing-Intensive course designated by the student's major.
- Two Writing-Intensive courses at the 200-level or higher, only one of which may hold the rubric of the student's major.
- If a student has multiple majors, the student must fulfill the University Writing-Intensive course requirements as well as the Upper-Level Writing Requirement of each major.

Incoming transfer students must complete two writing-intensive courses at MSUM:

- One 300 / 400-level Writing-Intensive course designated by the major.
- One Writing-Intensive course at the 200-level or higher
- If a student has multiple majors, the student must fulfill the University writing-intensive course requirements as well as the Upper-Level Writing Requirement of each major.
- Transfer students must have an average GPA of at least 2.0 for MSUM courses applied to Liberal Arts and Sciences Curriculum.
- Incoming freshmen must complete HLTH 122: Alcohol and College Life, a one-credit online 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.
- 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 graduate credits may be applied to an undergraduate degree.
- 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 for Graduation. 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**.

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. See the Dean of the College for more information.

The following programs offer the graduation guarantee:

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

Academic Standing

The cumulative grade point average (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 Probation and Suspension

This policy reflects a major change implemented by the MnSCU Board of Trustees Fall 2006 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 cumulative GPA thresholds and a percent of credit completion that students must achieve.

Students are responsible for determining their own academic status, both by monitoring the "Holds" section of the online web registration program, and by comparing their own progress to the standards listed below.

GPA:

Only MSUM courses (numbered 100 and above) are computed in the GPA. Accepted transfer credits count toward the total number of attempted credits, but transfer grades do not count in the student's GPA.

- At 1 to 26 total attempted credits, a student must have a cumulative GPA of 1.6 or higher.
- At 27 to 59 total attempted credits, a student must have a cumulative GPA of 1.9 or higher.
- At 60 or more attempted credits, a student must have a cumulative GPA of 2.0 or higher.

(A GPA calculator is available on the Records Office website.)

Percent Completion:

- All students must complete 66.66 percent of the MSUM credits they attempt.
- Attempted credits include all MSUM courses on a student's official record, including withdrawals, repeated courses, and grades of Incomplete.
- Courses taken for Audit are not counted as credits attempted or earned for Satisfactory Academic Progress.
- Withdrawals, grades of F, FN, NC, Z, and Incompletes count against percent completion because they result in zero credits earned for that course.
- Transfer credits are not included in the percent completion calculation, as required by MnSCU policy.
- Percent completion is calculated by dividing the number of earned credits by the number of attempted credits.

Academic Probation/Academic Suspension:

Academic probation holds are placed after the grading period at the end of each semester. After any end-of-semester grading period in which a student's cumulative GPA *or* percent completion falls below the requirements, that student is placed on Academic Probation.

Students go off of academic probation only when their cumulative GPA *and* percent completion are raised enough to meet or exceed the minimum standards.

If a student on academic probation does not meet the minimum semester requirements for GPA and percent completion, that student will be suspended. **Semester requirements for students on probation are to earn a 2.0 minimum GPA, and to earn at least 66.66 percent of the credits being attempted during the semester.**

Students who are 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 Academic

Resource Office, Flora Frick 154, and on the Academic Resource Office website at www.mnstate.edu/aro/.

Students are responsible for checking on their academic and hold status each semester. Students who are placed on academic probation and suspension are notified by letter from the Academic Resource Office. Students are responsible for keeping their local and permanent addresses updated in their computerized records and monitoring their official university email for messages.

Procedure

Students are put on probation each semester that their cumulative GPA or percent completion remains or falls below the required standards.

At the end of each semester, final grades are recorded. Students whose cumulative totals go above the minimums are removed from probation. Students whose cumulative totals remain below these minimums must earn a minimum semester GPA of 2.0 and complete at least 66.66 percent of the credits attempted during the semester. Students on academic probation who do not meet these requirements are suspended.

Course Placement Testing Policy

To support student success and to meet the requirements of MnSCU policy 3.3.1, Minnesota State University Moorhead has developed the following procedure for assessing new entering students' skills. Contact the Academic Resource Office (FR 154) for additional information.

Exemption from Testing

Students who present current ACT sub scores will be exempt from testing. The ACT sub scores will be used for course placement for college-level courses. Students without ACT scores, or with ACT scores that signify the student is not ready for college-level work, must take the Accuplacer tests.

ACT Math Sub-Score / Eligible to register for:

- 24 or above / MATH 142, MATH 143, MATH 229 or MATH 234
- 23 or above / MATH 127 or MATH 232
- 19 or above / MDEV 127, MATH 102, MATH 105 or PHIL 340
- Below 19 / Must take the Accuplacer for placement

SAT Math Sub-Score / Eligible to register for:

- 560 or above / MATH 142, MATH 143, MATH 229, or MATH 234
- 540-559 / MATH 127 or MATH 232
- 460-539 / MDEV 127, MATH 102, MATH 105 or PHIL 340
- Below 460 / Must take the Accuplacer for placement

The first placement test is given at no cost to the students. Retests will cost \$10.00 per test session. Students are allowed two (2) retests per subject in a calendar year at MSUM. A two-week waiting period between tests for review and study is recommended.

Accuplacer Minimums / Eligible to register for:

- College Algebra 50 or above_ / MATH 142, MATH 143, MATH 229 or MATH 234
- Elementary Algebra 76 or above_ / MDEV 127, MATH 102, MATH 105, PHIL 340
- Arithmetic 57 or above **OR** Arithmetic PLUS Elementary Algebra 100 or above/ MDEV 090
- None required / MATH 0052

Shelf life of ACT scores for exemption from testing

The shelf life of ACT scores is 5 years from original test year in order to be considered for exemption.

Course completion or in-process exemption from testing

Students who have completed their math requirement at another institution will be exempt from testing. Students enrolled in courses leading up to their math requirement completion will also be exempt from testing and be able to register for the next course in the sequence. Students will be able to register based on "good faith" that they are passing the required prior courses. Any student who does not pass the prior course will have their registration dropped once grades are known and will not be allowed to remain in the course.

Accuplacer Testing

The MnSCU Assessment for Course Placement Committee has chosen Accuplacer as the primary testing instrument in Reading, Mathematics, and ESL to assess student skills. Sample questions may be viewed at the Accuplacer website: www.testprepreview.com/accuplacer_practice.htm.

Fees

The first placement test is given at no cost to the students. Retests will cost \$10.00 per test session.

Retesting

Students are allowed two (2) retests per subject in a calendar year at MSUM. A two-week waiting period between tests for review and study is recommended.

Shelf Life of Accuplacer Scores

The shelf life of Accuplacer scores is 24 months from original test date for mathematics, 36 months for English.

Accommodation for students with disabilities

Students will contact Disability Services for information regarding testing accommodations, dates, and sites. Please be

sure to make this contact two weeks before scores are needed for placement.

English Courses

Students who do not have an ACT English sub score, must take the Accuplacer for appropriate placement.

Appeals Process

Students who do not believe they have been appropriately placed with their ACT sub score, may take the Accuplacer to determine placement. Students who do not feel the Accuplacer has given appropriate placement may re-take the Accuplacer to attempt a higher score.

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.

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 their degree audit report (DARS) to the appointment 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 the Academic Resource Office.

Liberal Arts and Sciences Curriculum (LASC)

Liberal Arts and Sciences is the key to your future success. Liberal Arts and Sciences Curriculum provides a broad foundation of skills, information and knowledge that goes beyond your chosen academic field. It will foster your ability to communicate effectively, to think critically and to problem solve. You will gain knowledge, skills and attitudes central to living in and contributing to a diverse world and the perspective to understand and appreciate the world's nations and peoples from the ethical dimensions of personal and political decisions to the challenges of responding to environmental variables.

While the Liberal Arts and Sciences Curriculum (LASC) is one component of a baccalaureate degree, the other being your major, courses may also apply to a minor or emphasis as well as being used as "general electives."

Students should consult early and often with their academic advisor to ensure effective planning.

Goal Areas

Goal 1A: Oral Communication: To develop writers and speakers who use the English language effectively and who read, write, speak and listen critically. As a base, all students should complete introductory communication requirements early in their collegiate studies. Writing competency is an ongoing process to be reinforced through writing-intensive courses and writing across the curriculum. Speaking and listening skills need reinforcement through multiple opportunities for interpersonal communication, public speaking, and discussion.

Goal 1B: Written Communication: To develop writers and speakers who use the English language effectively and who read, write, speak and listen critically. As a base, all students should complete introductory communication requirements early in their collegiate studies. Writing competency is an ongoing process to be reinforced through writing-intensive courses and writing across the curriculum. Speaking and listening skills need reinforcement through multiple opportunities for interpersonal communication, public speaking, and discussion.

Goal 2: Critical Thinking: 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.

Goal 3: Natural Sciences: To improve students' understanding of natural science principles and of the methods of scientific inquiry, i.e., the ways in which scientists investigate natural science phenomena. As a basis for lifelong learning, students need to know the vocabulary of science and to realize that while a set of principles has been developed through the work of previous scientists, ongoing scientific inquiry and new knowledge will bring changes in some of the ways scientists view the world. By studying the problems that engage today's scientists, students learn to appreciate the importance of science in their lives and to understand the value of a scientific perspective. Students should be encouraged to study both the biological and physical sciences.

Goal 4: Mathematics / Logical Reasoning: 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 to apply mathematics, logic, and/or statistics to help them make decisions in their lives and careers. Minnesota's public higher education systems have agreed that developmental mathematics includes the first three years of a high school mathematics sequence through intermediate algebra.

Goal 5: History and the Social and Behavioral Sciences: To increase students' knowledge of how historians and social and behavioral 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.

Goal 6: The Humanities and the Fine Arts: 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 fine arts, students will engage in critical analysis, form aesthetic judgments, and develop an appreciation of the arts and humanities as fundamental to the health and survival of any society. Students should have experiences in both the arts and humanities.

Goal 7: Human Diversity: To increase students' understanding of individual and group differences (e.g. race, gender, class) and their knowledge of the traditions and values of various groups in the United States. Students should be able to evaluate the United States' historical and contemporary responses to group differences.

Goal 8: Global Perspective: To increase students' understanding of the growing interdependence of nations and peoples and develop their ability to apply a comparative perspective to cross-cultural social, economic and political experiences.

Goal 9: Ethical and Civic Responsibility: To develop students' capacity to identify, discuss, and reflect upon the ethical dimensions of political, social, and personal life and to understand the ways in which they can exercise responsible and productive citizenship. While there are diverse views of social justice or the common good in a pluralistic society, students should learn that responsible citizenship requires them to develop skills to understand their own and others' positions, be part of the free exchange of ideas, and function as public-minded citizens.

Goal 10: People and The Environment: To improve students' understanding of today's complex environmental challenges. Students will examine the inter-relatedness of human society and the natural environment. Knowledge of both bio-physical principles and socio-cultural systems is the foundation for integrative and critical thinking about environmental issues.

Goal 11: Information Literacy: 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

Liberal Arts and Sciences Curriculum is a minimum of 14 courses (42 credits minimum) and matches with the goal areas of the Minnesota Transfer Curriculum with the exception of Goal Areas 11: Information Literacy. This goal area is embedded in the curriculum of Goal Areas 1A through 10 and is satisfied through the completion of the other goal areas.

Goal 1A: Oral Communication – Complete one course.

Goal 1B: Written Communication – Complete one course.

Goal 2: Critical Thinking – Complete a minimum of one course.

Goal 3: Natural Sciences – Complete a minimum of two courses from two different rubrics, at least one course must include a traditional lab experience.

Goal 4: Mathematics / Logical Reasoning – Complete a minimum of one course.

Goal 5: History and the Social and Behavioral Sciences – Complete a minimum of two courses with different disciplinary rubrics.

Goal 6: The Humanities and Fine Arts – Complete a minimum of two courses with different disciplinary rubrics.

Goal 7: Human Diversity – Complete a minimum of one course.

Goal 8: Global Perspective – Complete a minimum of one course.

Goal 9: Ethical and Civic Responsibility – Complete a minimum of one course.

Goal 10: People and the Environment – Complete a minimum of one course.

Goal 11: Information Literacy – This goal is fulfilled automatically when all of the goal areas are completed.

Only courses currently approved for Liberal Arts and Sciences Curriculum credit may be counted toward completion of the 42 minimum credits required. Approved courses are marked by the goal area to which they belong (1A, 1B 2, 3, 3, 4, 5, 6, 7, 8, 9, 10) in each semester's class schedule. A complete list of all currently approved courses is available online at: www.mnstate.edu/acadaff/lasc/Courses.htm.

Courses taken for Pass/No Credit grades may not be applied to Liberal Arts and Sciences. 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 Liberal Arts and Sciences Curriculum. Certain degree programs may require higher LASC GPAs. Check with the department for more information.

Writing-Intensive Requirements

Incoming freshmen must complete five Writing-Intensive (W) courses at MSUM:

- English 101 (or an approved alternative)
- One Writing-Intensive course in the Liberal Arts and Sciences Curriculum.
- One 300- or 400-level Writing-Intensive course designated by the student's major
- Two Writing-Intensive courses at the 200-level or higher, only one of which may hold the rubric of the student's major.

If a student has multiple majors, the student must fulfill the University Writing-Intensive course requirements as well as the Upper-Level Writing Requirement of each major.

Incoming transfer students must complete two writing-intensive courses at MSUM:

- One 300- or 400-level Writing-Intensive course designated by the student's major
- One Writing-Intensive course at the 200-level or higher

If a student has multiple majors, the student must fulfill the University writing-intensive course requirements as well as the Upper-Level Writing Requirement of each major. Refer to the Writing Matters website at www.mnstate.edu/acadaff/UnivWriting/Courses.htm for a list of approved courses.

Minnesota Transfer Curriculum

The Minnesota Transfer Curriculum was created by mutual agreement of Minnesota's public higher education institutions to aid in transfer among all public colleges and universities in the state. Students completing the specified transfer curriculum at one Minnesota institution will be deemed to have satisfied the general education requirements of the latter institution.

Students who transfer to MSUM with a partially completed Minnesota Transfer Curriculum are not required to repeat any goal areas they have already fulfilled, but must complete the remaining requirements of MSUM's Liberal Arts and Sciences Curriculum. Refer to Liberal Arts and Sciences Curriculum at www.mnstate.edu/acadaff/lasc/overview.htm for detailed information. A 2.0 MnTC GPA is required for recognition of a student's completion of the entire Minnesota Transfer Curriculum with or without completing an associate degree. In order to complete the Minnesota Transfer Curriculum at MSUM a student must complete the following requirements:

- A 2.0 MnTC GPA is required for recognition of a student's completion of the entire Minnesota Transfer Curriculum.
- A minimum of 14 courses (42 semester credits) must be completed in the following goal areas.

Goal 1: Oral Communication – Complete one course.

Written Communication – Complete one course.

Goal 2: Critical Thinking – Complete a minimum of one course.

Goal 3: Natural Sciences – Complete a minimum of two courses from two different rubrics, at least one course must include a traditional lab experience.

Goal 4: Mathematics / Logical Reasoning – Complete a minimum of one course.

Goal 5: History and the Social and Behavioral Sciences – Complete a minimum of two courses with different disciplinary rubrics.

Goal 6: The Humanities and Fine Arts – Complete a minimum of two courses with different disciplinary rubrics.

Goal 7: Human Diversity – Complete a minimum of one course.

Goal 8: Global Perspective – Complete a minimum of one course.

Goal 9: Ethical and Civic Responsibility – Complete a minimum of one course.

Goal 10: People and the Environment – Complete a minimum of one course.

All currently approved courses and the Goal Areas to which they apply are listed online at

www.mnstate.edu/acadaff/lasc/overview.htm.

Completing the Minnesota Transfer Curriculum does not guarantee requirements for the major have been met. Check the *Curricula* section of the **Bulletin** for degree requirements.

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 Arts and Sciences Curriculum requirement at MSUM. Transfer credits may not be applied to meet an area requirement at Minnesota State University Moorhead (Liberal Arts and Sciences Curriculum, 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.

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

For more information contact the FYE Coordinator, or visit the FYE website at www.mnstate.edu/fye/.

Learning Communities

MSUM Learning Communities are designed to give students living on-campus an academic advantage. Learning Communities help students with transitioning into college life and facilitate an environment that enhances students learning potential outside of the classroom. Students who are a part of a Learning Community gain exposure to knowledge resources, University personnel, and a support network of classmates who share the same or similar majors. Learning Community students will take classes together, live in the same residence hall, and reside on the same floor. Also, students will have the opportunity to get to know faculty within their major. Learning Communities help students set academic goals, develop study skills, and engage in leadership opportunities outside of the classroom. Please visit Learning Communities online at www.mnstate.edu/housing/learning_communities.cfm for more information.

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.)

Appeal of Undergraduate Academic Policies

Academic Appeals can be filed to seek waiver of a graduation or Liberal Arts and Sciences Curriculum requirements, 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 Records Office (Owens 104) whether an appeal is appropriate in their situation.

Students complete the appeal form and return it to the Records Office, 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.

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 2.0 GPA 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.

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 to the Records Office.

The Tri-College University, in collaboration with the Greater Fargo Moorhead Economic Development Corporation and Sanford Health, is launching a first-in-the-nation undergraduate Minor in Vaccinology, starting Fall 2011. For additional information regarding the Vaccinology collaboration and minor visit: www.tri-college.org/vaccinologycollaboration/

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.

University Studies Major

Students who wish to develop a multidisciplinary major built around a chosen theme or who wish to complete a generalist degree or who have completed most but not all of the requirements of a major or have been unable to complete a degree in a timely major may wish to complete a generalist degree, the Bachelor of Science in University Studies.

The form used to petition for this major is available online. Click on Records Office, Forms, and then Application for University Studies major. See University Studies Major under the *Academic Programs* section of this **Bulletin**. For more information call 218-477-4318.

Internship Policy

- A. 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.
- B. 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.
- C. Minimum Standards
 1. A minimum of one (1) semester credit and a maximum of twelve (12) semester credits will be granted for Internships.
 2. A maximum of twelve (12) semester credits may be counted toward a degree.
 3. An Internship will be graded only on a Pass-Fail basis.
 4. An Internship may be taken only by a student majoring in the department or program.
 5. Any Intern must have at least junior standing.

6. Internship credits will be awarded on the basis of a minimum of forty (40) hours of fieldwork per semester per credit received.
7. Each Internship must have a written agreement outlining the mutual expectations and responsibilities of MSUM, the Site, the Department, and the Student Intern.
8. The Internship Agreement will be kept on file in the department office for six years.
9. Every Internship will be evaluated by the department Internship Coordinator or the Internship Supervisor.

A. Departmental Expectations

All departments offering Internships must have a current Internship Document on file in the Office of Provost and Senior Vice President for Academic Affairs, and in the Office of the Divisional Dean. The document shall include statements of the:

1. Objectives of the Internship program
2. Responsibilities of the Student Intern, the Faculty Supervisor, and the Site Evaluator.
3. Departmental procedures for approving Internships.
4. Means of reporting results or accomplishments.
5. Method(s) of assessment.
6. Expectations and procedures of monitoring Internship achievements.
7. Departmental practice on faculty workload, if any.
8. Departmental policy on Internship compensation.
9. 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/.

The Curricula Section lists the academic departments/programs of Minnesota State University Moorhead as of June 2011, 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

American Multicultural Studies

American Multicultural Studies Department

MacLean Hall 279, (218) 477-2196

Chair: Kim Park Nelson

Faculty: Yolanda Arauza, Phyllis May-Machunda

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 arts 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 and gender 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

- Recognize the status, concerns, achievements, representations and experiences of African Americans, Native American Indians, Chicanos/ Latinos, and Asian Americans.
- Examine and apply key concepts from multicultural American experiences, values, beliefs and behaviors to core visual, aural and literary texts.
- Comprehend and critique humanistic and social scientific texts within their historical and cultural contexts.
- Identify, analyze and discuss complex issues and policies in American society from critical interdisciplinary, comparative, and multicultural perspectives.

- Interpret and synthesize research materials using interdisciplinary methodologies and skills.
- Create and critically evaluate oral, written, and visual presentations of multicultural research.

UPPER LEVEL WRITING REQUIREMENT

AMCS 498: Capstone Seminar in American Multicultural Studies

B.A. DEGREE IN AMERICAN MULTICULTURAL STUDIES (120 Credits)

Core Requirements (25 Credits)

- AMCS 102 Contemporary American Indians (3)
- AMCS 103 Contemporary Chicanos (3)
- AMCS 209 African American Humanities I: Roots (3)
- AMCS 300 Theories and Methods in American Multicultural Studies (3)
- AMCS 312 Origins of Multicultural America (3)
- AMCS 313 Modern Multicultural America (4)
- AMCS 372 Dynamics of Prejudice and Oppression (3)
- 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 and Gender 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 (1-12)
- 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 America I (3)
- HIST 334 History of Latin America II (3)
- 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 Seminar in Jazz Literature and Repertoire (2)
SPAN 322 Latin American Culture and Civilization (4)

Electives (8 Credits)

Students must select 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 Experience (3)

EMPHASIS IN AFRICAN AMERICAN STUDIES (27 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in American Multicultural Studies plus: 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 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 (1-12)
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 Seminar in Jazz Literature and Repertoire (2)

Electives (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 States (3)
ANTH 313 Understanding Contemporary Africa (3)
HIST 220 Asian-American Experience (3)

EMPHASIS IN AMERICAN INDIAN STUDIES (27 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in

American Multicultural Studies plus:
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 (1-12)

Electives (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 States (3)
HIST 220 Asian-American Experience (3)

EMPHASIS IN CHICANO/LATINO STUDIES (27 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in American Multicultural Studies plus:
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 (1-12)
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 (3)
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 (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 Experience (3)

MINOR IN AFRICAN AMERICAN HUMANITIES (24 Credits)

Requirements (12 Credits)

AMCS 209 African American Humanities I: Roots (3)
 AMCS 210 African American Humanities II: 1865-Present (3)
 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 (3)
OR AMCS 313 Modern Multicultural America (4)
 AMCS 301 African American Music (3)
 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 (3)
 AMCS 390 Topics in American Multicultural Studies (1-3)
 AMCS 461 Readings: American Multicultural Studies (1-3)
 AMCS 469 Internship (1-12)
 AMCS 498 Capstone Seminar in American Multicultural Studies (3)
 ANTH 313 Understanding Contemporary 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 Seminar in Jazz Literature and Repertoire (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 (3)
 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 (3)
 AMCS 390 Topics in American Multicultural Studies (1-3)
 AMCS 461 Readings: American Multicultural Studies (1-3)
 AMCS 469 Internship (1-12)
 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 States (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 (3)
 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 (3)
 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 more courses from the list 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 209 African American Humanities I: Roots (3)

AMCS 210 African American Humanities II: 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 Experience (3)

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 and Gender 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.

Anthropology and Earth Science

Anthropology and Earth Science Department
King Hall 103, (218) 477-4217

Chair: Rinita Dalan

Faculty: Russell Colson, Erik Gooding, George Holley, Karl Leonard, Michael Michlovic, 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 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, cultural tours and field schools in ethnography. The field experiences are offered in summer sessions.

STUDENT LEARNING OUTCOMES

- Understand the content of the discipline.
- Apply the concepts of anthropology.
- Understand research methods.
- Ability to use resources effectively.

UPPER LEVEL WRITING REQUIREMENT

ANTH 445: Seminar in Anthropology for the B.A. in Anthropology.

B.A. DEGREE IN ANTHROPOLOGY (120 Credits)

Core Requirements (12 Credits)

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 (28 Credits)

In addition to the courses listed below, students must complete the core requirements listed 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 (28 Credits)

In addition to the courses listed below, students must complete the core requirements listed 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 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 (21 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 (12 Credits)

Students, in consultation with a faculty advisor, must take one upper level archaeology course, one upper level cultural anthropology course, and two upper level anthropology electives.

PROGRAMS IN THE GEOSCIENCES

The Geosciences major requires a minimum of 120 credits for the B.S. degree and 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 affect 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

- Ability to apply concepts and principles of geosciences in understanding Earth processes or relationships of people to the Earth.
- Competency in laboratory and field skills and ability to conduct a scientific investigation.
- Ability to use and respond to literature and research in geosciences, including: use of library and research data, ability to interpret results of an investigation in science or social science research, comprehension of key ideas and evidence, understanding of arguments, and ability to communicate arguments and ideas in written and oral form.

UPPER LEVEL WRITING REQUIREMENT

GEOS 315: Sedimentology and Stratigraphy for the B.S. degree in Geosciences and B.S. degree in Earth Science-Teaching.

B.S. DEGREE IN GEOSCIENCES (120 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 (3)
- GEOS 117L Water, Land, and People Lab (1)
- 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 150 General Chemistry I (4)
- MATH 234 Introduction to Probability and Statistics (3)
- 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 (3)
- CHEM 210L General Chemistry II Lab (1)
- 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 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 335 Environmental Geography and Conservation (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 313 Understanding Contemporary 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 (3)
- GEOS 117L Water, Land, and People Lab (1)
- 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 Physical Geology (4)
- GEOS 117 Water, Land, and People (3)
- GEOS 117L Water, Land, and People Lab (1)
- GEOS 301 Archaeological Prospection (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 Paleoecology (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 Genesis/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 150 General Chemistry I (4)
- CHEM 210 General Chemistry II (3)
- CHEM 210L General Chemistry II Lab (1)
- MATH 234 Introduction to Probability and Statistics (3)
- 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 (120 Credits)**Requirements (32 Credits)**

Students must also fulfill all teacher licensure requirements which will add thirty-six 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 (3)
GEOS 117L Water, Land, and People Lab (1)
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 (28 Credits)

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
CHEM 150 General Chemistry I (4)
CHEM 210 General Chemistry II (3)
CHEM 210L General Chemistry II Lab (1)
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.

Art & Design

Department of Art & Design

Roland Dille Center for the Arts 161

(218) 477-2151 or 477-2152

Chair: Wil Shynkaruk

Faculty: Bjorn Anderson, Anna Arnar, Bradley Bachmeier, Donald Clark, Zhimin Guan, Lila Hauge-Stoffel, Lana Leishman, Carl Oltvedt, Jim Park, Allen Sheets, Sherry Short, Kelli Sinner, Chris Walla

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 & 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 & Design and its programs are accredited through the National Association of Schools of Art and Design (NASAD).

DEGREES OFFERED BY THE DEPARTMENT OF ART & DESIGN

- 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 except Pictorial Illustration
- Bachelor of Fine Arts - Emphasis in one of the studio areas listed below

THE DEPARTMENT OF ART & DESIGN OFFERS THE FOLLOWING MINORS:

- Minor in Studio Art
- Minor in Art History

EMPHASIS AREAS IN STUDIO ART

Students working toward a degree in Studio Art may declare an emphasis in any of the following areas:

- Ceramics
- Drawing
- Graphic Design
- Painting

- Photography
- Pictorial Illustration
- 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.

Pictorial Illustration

The pictorial illustration emphasis utilizes a range of disciplines in the Department of Art & Design to offer students a program integrating the concepts of narrative development and visual form. The program is designed for students to explore and develop in various media with focused conceptual growth in the fourth and fifth years. Topics covered include: editorial, book, advertising, scientific, and digital illustration. The Bachelor of Fine Arts (BFA) is considered the professional and specialized degree program for entry into practice.

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.

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 & Design, with their BA requirements satisfied. The BFA Degree requires a minimum of 128 credits for graduation.

ADDITIONAL DEGREE REQUIREMENTS

(BA studio emphasis, BS, and BFA)

Computer and Software Requirement

All students majoring in Art & Design with an emphasis in Graphic Design or Photography, and entering the 303 course, are required to possess a Macintosh laptop computer with appropriate software for their respective area. Specifications for the hardware and software will be given out in the

introductory course or may be obtained from the professors in either area of emphasis.

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 & Design Office. Completion of these two reviews is required for advancement to the next level of study. Transfer students must meet with their Art & 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/BFA in studio, or a BS in Art Education, 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 their Graphic Design advisor.

Students intending to graduate with an emphasis in Art History must give a public presentation of their Art History Thesis in preparation for graduation.

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

A student's assigned advisor or the chair can approve acceptance of transfer credits for Art courses for the department's foundations program.

Transfer students seeking approval for other Art courses must have those courses approved by their advisor, an instructor in the area of study, and the Department chair. Signatures from the professors involved must be obtained on the Departmental Request for Course Exemption form.

Students seeking transfer credit for Art courses will be interviewed by a faculty member in the area of study of the transfer course. The student will be expected to present a syllabus and portfolio of work produced in the class sought for transfer credit.

Please see this *Bulletin* for general information and guidelines on the policy for transfer credits outside the Department of Art & Design.

SCHOLARSHIPS

In addition to standard MSUM academic scholarships, the Department of Art & Design grants Freshmen 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

ART 450: Contemporary Art, Design and Theory for the B.A. in Art

ART 450: Contemporary Art, Design and Theory for the B.F.A. in Art.

ART 375: Secondary Methods and Materials for the B.S. in Art Education.

B.A. DEGREE IN ART (120 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 (58 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in Art.

Requirements (6 Credits)

Students must earn six credits in Art 479. This course is titled Art History Thesis, and as a graduation requirement, students are required to present their Art History Thesis publicly.

ART 479 Art History Thesis (1-6)

Restricted Electives (36 Credits)

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)

Students must earn twenty-eight credits in Art History courses at the 300 level or above.

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)

ART 470 Art & Archaeology of Ancient Egypt (4)

ART 497 Topics in Art (1-4)

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 and Gender Studies may be beneficial to students in this emphasis.

ART 320 Philosophy of the Arts (3)

ENGL 234 Mythology (3)

EMPHASIS IN CERAMICS (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in Art.

Requirements (40 Credits)

Students may take ART 303A, 304A and 305A in any order. Students take 404A and/or 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 Environmental Chemistry (3)
 GEOS 115 Physical Geology (4)

EMPHASIS IN DRAWING (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 303H Drawing Studio (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 (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 Dreamweaver/CSS (3)

EMPHASIS IN PAINTING (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (52 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (128 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, Pictorial Illustration, 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 (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 Environmental Chemistry (3)
 GEOS 115 Physical Geology (4)

BFA EMPHASIS IN DRAWING (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 Dreamweaver/CSS (3)

BFA EMPHASIS IN PAINTING (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 PICTORIAL ILLUSTRATION (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.F.A. Degree in Art.

Requirements (21 Credits)

Student must complete a total of seventeen credits in ART 451L and 452L. The particular focus of studio work at the B.F.A. level will be determined in consultation with the student's advisor.

ART 203L Introduction to Illustration (4)
 ART 451L Illustration Studio (4-12)
 ART 452L Illustration Studio (4-12)

Restricted Electives (36 Credits)

Students must complete at least eight additional credits in

introductory courses chosen from ART 203A-203H, of which at least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or higher. Coursework at the 3030 level (four credits), the 304/305 level (eight credits), and the 400 level (eight credits) may be completed in a variety of media (painting, drawing, printmaking, etc.) depending on the individual student's interests and career goals. The individualized course of study must be determined in consultation with the student's academic advisor.

Recommended (0 Credits)

These courses are not required, but may be beneficial to students in this emphasis.

GCOM 255 Beginning Computer Graphics (3)

GCOM 255 Intermediate Computer Graphics (3)

BFA EMPHASIS IN PRINTMAKING (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (57 Credits)

In addition to the courses listed below, students must complete the core requirements listed under 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 (128 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)

Astronomy

See Physics and Astronomy

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 twelve credits in studio art at the 303/304/305 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 or ART 220).

- 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)
 ART 220 Papermaking (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.

Athletics

Athletics Department

Alex Nemzek Hall 106, (218) 477-2622

Director of Athletics: Doug Peters

Chair: Rollie Bullock

Faculty: Keith Barnier, Tammy Blake-Kath, Steve Laqua, Karla Nelson, Todd Peters, Keenan, Chad Walthall

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

Alex Nemzek Hall 103, (218) 477-2445

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 three semesters are observational; the student completes the required coursework and observational hours. During the fall/third semester of the observational period 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 education sites available for that given year. Application to the Athletic Training Education Program will take place during the fall 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 111 Cell Biology or BIOL 115 Organismal Biology;
 - 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;
4. Completion of 10 hours of documented Athletic Training facility observation.
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 HIPPA training (prior to clinical experience at affiliated sites).

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 education availability.

Sophomore Year:

- minimum 2.5 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA's Code of Ethics;
- 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;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA's Code of Ethics;

- 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;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA's Code of Ethics;
- 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 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:

- Evidenced-Based Practice (EBP)
- Prevention and Health Promotion (PHP)
- Clinical Examination and Diagnosis (CE)
- Acute Care of Injuries and Illnesses (AC)
- Therapeutic Interventions (TI)
- Psychosocial Strategies and Referral (PS)
- Healthcare Administration (HA)
- Professional Development and Responsibility (PD)

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 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

AT 420: Senior Seminar

**B.S. DEGREE IN ATHLETIC TRAINING (120 Credits)
Requirements (64-74 Credits)**

AT 120 Introduction to Athletic Training (1)
 AT 210 Medical Terminology (1)
 AT 220 Care and Prevention of Injuries & Illnesses (3)
 AT 225 Prof Rescuer CPR/AED and First Aid (2)
 AT 320 Athletic Training Techniques (3)
 AT 321 Orthopedic Clinical Assessment: Upper Extremity (3)
 AT 321L Orthopedic Clinical Assessment: Upper Extremity Lab (1)
 AT 322 Orthopedic Clinical Assessment: Lower Extremity (3)
 AT 322L Orthopedic Clinical Assessment: Lower Extremity Lab (1)
 AT 323 Therapeutic Modalities (3)
 AT 323L Therapeutic Modalities Lab (1)
 AT 324 Therapeutic Exercise (3)
 AT 324L Therapeutic Exercise Lab (1)
 AT 362 Athletic Training Practicum I (2)
 AT 363 Athletic Training Practicum II (2)
 AT 364 Athletic Training Practicum III (2)
 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 IV (2)
 AT 466 Athletic Training Practicum V (2)
 AT 469 Internship (2 credit minimum)
 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 (10 Credits)

BIOL 111 Cell Biology (4)
OR BIOL 115 Organismal Biology (4)
 MATH 232 Applied Statistics (3)
 PSY 113 General Psychology (3)

Electives (3 Credits)

Students must choose three elective credits from the following list of courses:

BIOL 323 Human Anatomy (4)
 BIOL 349 Human Physiology (4)
 CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Lab (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CSIS 103 Computer Concepts and Applications (3)
 ENGL 387 Technical Report Writing (4)
 HLTH 110 Personal Health and Wellness (3)
 HLTH 330 Disease Prevention (2)

PE 310 Sport and Play in the United States (3)

PE 311 Motor Learning (2)

PHIL 311 Morals and Medicine (3)

PHIL 318 Professional Ethics (3)

PSY 265 Health Psychology (3)

Biochemistry and Biotechnology

Biosciences Department

Hagen Hall 103, (218) 477-2572

Chair: Ellen Brisch

Chemistry Department

Hagen Hall 103, (218) 477-2572

Chair: Jeffrey Bodwin

Biochemistry is the study of chemistry and living systems. Biotechnology is the use of cellular and biomolecular processes to solve problems and make useful products. The different emphases, minor, and certificate offered in Biochemistry and Biotechnology are designed to prepare students for a wide array career and educational opportunities.

The Departments of Biosciences and Chemistry jointly offer the Biochemistry and Biotechnology (BCBT) Major. The Major has two emphases: 1) Cellular and Molecular Sciences and 2) Biological Chemistry. All students completing a BCBT Major must complete one of the two emphases.

The BCBT Major is designed to be a research-based, laboratory-intensive program focusing on training undergraduates in both the theories and practices of the discipline. All BCBT majors are required to participate in a small-group, senior-year research project mentored by one of the BCBT faculty members. Upon graduating with a BCBT Major approximately 30% of students attend medical school, 30% go directly to work in industry, and 40% attend graduate school.

BCBT Majors are strongly encouraged to participate in research outside of their coursework as early as possible in their academic career.

The Biochemistry and Biotechnology Industries are regulated by the U.S. Food and Drug Administration (FDA), the Environmental Protection Agency (EPA), and the Department of Agriculture (USDA).

The BCBT Industry Certificate is a unique, advanced training opportunity, that prepares people to work in the highly regulated bioscience, pharmaceutical, and chemistry industries.

The Certificate Program prepares undergraduates to enter the workforce, provides training to incumbent workers for career advancement, and retrains displaced workers for new careers.

STUDENT LEARNING OUTCOMES

- Understand fundamental chemical, molecular, cellular, and systems level scientific concepts.
- Demonstrate competence in general and advanced laboratory skills and be introduced to discipline-specific skills and their professional applications.

- Acquire basic research skills in introductory courses and refine those skills in advanced courses including independent research.
- Demonstrate ability to design and conduct independent research.
- Apply critical thinking and quantitative skills to evaluate scientific information.
- Practice effective oral and written communication of scientific ideas in the manner of professional scientists.
- Create well prepared students for medical, professional, and graduate schools, as well as entry into biotechnology industry careers.

UPPER LEVEL WRITING REQUIREMENT

BIOL 341: Genetics

B.S. DEGREE IN BIOCHEMISTRY AND BIOTECHNOLOGY (120 Credits)

Core Requirements (44 Credits)

BCBT 475 Biotechniques: Research and Communication I (2)

BCBT 476 Biotechniques: Research and Communication II (2)

BIOL 111 Cell Biology (4)

BIOL 341 Genetics (4)

BIOL 385 Molecular Biology (3)

BIOL 385L Biology 385 Lab (1)

CHEM 150 General Chemistry I (3)

CHEM 150L General Chemistry Laboratory I (1)

CHEM 210 General Chemistry II (3)

CHEM 210L General Chemistry II Lab (1)

CHEM 350 Organic Chemistry I (3)

CHEM 355 Organic Chemistry I Lab (1)

CHEM 360 Organic Chemistry II (3)

CHEM 365 Organic Chemistry II Lab (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)

Requirements (6 Credits)

Students must select three courses from the following list:

BCBT 477 Proteomics and Advanced Protein Expression (2)

BCBT 478 Plant and Mammalian Tissue Culture (2)

BCBT 479 Advanced DNA & RNA Methodology (2)

BCBT 480 Integrative Physiology & Surgical Instrumentation (2)

BCBT 481 Fluorescence Detection and Quantification (2)

BCBT 482 Biofuels (2)

BCBT 490 Topics in Biotechnology Techniques (1-4)

EMPHASIS IN BIOLOGICAL CHEMISTRY (39-43 Credits)

In addition to the courses listed below, students must complete the core requirements and requirements listed under the B.S Degree in Biochemistry and Biotechnology.

Requirements (7 Credits)

CHEM 300 Inorganic Chemistry (3)
CHEM 450 Physical Chemistry I (3)
CHEM 455 Physical Chemistry I Lab (1)

Restrictive Electives (10 - 11 Credits)

Select **ONE** of the following courses

BIOL 347 Plant Physiology (4)
BIOL 349 Human Physiology (4)
BIOL 360 Cellular and Molecular Physiology (4)

Select **ONE** of the following courses (Students cannot count the physiology electives used above as one of the three courses)

BIOL 115 Organismal Biology (4)
BIOL 305 General Botany (4)
BIOL 321 Invertebrate Zoology (3)
BIOL 323 Human Anatomy (4)
BIOL 345 Principles of Ecology (4)
BIOL 347 Plant Physiology (4)
BIOL 348 Evolutionary Biology (3)
BIOL 349 Human Physiology (4)
BIOL 350 Microbiology (4)
BIOL 360 Cellular and Molecular Physiology (4)
BIOL 365 Developmental Biology (4)
BIOL 372 Aquatic Biology (4)
BIOL 402 Principles of Animal Behavior (3)
BIOL 430 Immunobiology (4)

Students must select **ONE** of the following courses

BCBT 450 Molecular and Biophysical Chemistry (3) CHEM 460 Physical Chemistry II (3)

Related Requirements (16 Credits)

MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
PHYS 200 General Physics I (3)
PHYS 200L General Physics I Lab (1)
PHYS 201 General Physics II (Lecture and lab) (4)

EMPHASIS IN CELLULAR AND MOLECULAR SCIENCES (39-43 Credits)

In addition to the courses listed below, students must complete the core requirements and requirements listed under the B.S Degree in Biochemistry and Biotechnology.

Requirements (7 Credits)

BCBT 450 Molecular and Biophysical Chemistry (3)
BIOL 115 Organismal Biology (4)

Restrictive Electives (16 - 20 Credits)

Select **ONE** of the following courses

BIOL 347 Plant Physiology (4)
BIOL 349 Human Physiology (4)
BIOL 360 Cellular and Molecular Physiology (4)

Select **THREE** of the following courses (Students cannot count the physiology electives used above as one of the three courses)

BIOL 305 General Botany (4)
BIOL 321 Invertebrate Zoology (3)
BIOL 323 Human Anatomy (4)
BIOL 345 Principles of Ecology (4)
BIOL 347 Plant Physiology (4)
BIOL 348 Evolutionary Biology (3)
BIOL 349 Human Physiology (4)
BIOL 350 Microbiology (4)
BIOL 360 Cellular and Molecular Physiology (4)
BIOL 365 Developmental Biology (4)
BIOL 372 Aquatic Biology (4)
BIOL 402 Principles of Animal Behavior (3)
BIOL 430 Immunobiology (4)
BIOL 455 Wildlife Ecology (4)

Related Requirements (16 Credits)

MATH 261 Calculus I (4)
MATH 234 Introduction to Probability and Statistics (4)
OR MATH 244 Applied Biostatistics (4)
OR MATH 262 Calculus II (4)
PHYS 160 College Physics I (3)
AND PHYS 160L College Physics I Lab (1)
OR PHYS 200 General Physics I (3)
AND PHYS 200L General Physics I lab (1)
PHYS 161 College Physics II (4)
OR Phys 201 General Physics II (lecture and lab) (4)

MINOR IN BIOCHEMISTRY AND BIOTECHNOLOGY (22-23 Credits)**Core Requirements (11 Credits)**

BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology Lab (1)
CHEM 400 Biochemistry I (3)
CHEM 405 Biochemistry Laboratory I (1)
CHEM 410 Biochemistry II (3)

Requirements (4 Credits)

Choose two of the following Biotechniques courses:
BCBT 477 Biotechniques: Proteomics and Advanced Protein Expression (2)
BCBT 478 Biotechniques: Plant and Mammalian Tissue Culture (2)
BCBT 479 Biotechniques: Advanced DNA & RNA Methodology (2)
BCBT 480 Biotechniques: Integrative Physiology & Surgical Instrumentation (2)
BCBT 481 Biotechniques: Fluorescence Detection and

Quantification (2)

BCBT 482 Biotechniques: Biofuels (2)

BCBT 490 Topics in Biotechnology Techniques (1-4)

Restricted Electives (4 Credits)

Students must complete 4 credits from this list. Only 1 credit can be used from BIOL 497 or CHEM 497 toward restrictive electives.

BCBT 450 Molecular and Biophysical Chemistry (3)

BIOL 347 Plant Physiology (4)

BIOL 360 Cellular and Molecular Physiology (4)

BIOL 497 Undergraduate Research in Biology (1-3)

CHEM 380 Analytical Chemistry I (4)

CHEM 415 Biochemistry Laboratory II (1)

CHEM 497 Undergraduate Research (1-3)

Electives (3-4 Credits)

Select one from the following list:

BCBT 420 Intro to Working in a Regulated Biochemistry and Biotechnology Industry (4)

BCBT 425 Introduction to Validation in the Biochemistry and Biotechnology Industry (4)

BCBT 430 Intro to Quality Assurance and Quality Control in Biochem Biotech Industry (4)

BCBT 435 Ethics in the Biochemistry and Biotechnology Industry (3)

BCBT 469 Internship (1-12)

Biology

See Biosciences

Biosciences

Biosciences Department

Hagen Hall 103, (218) 477-2572

Chair: Ellen Brisch

Faculty: Chris Chastain, Linda Fuselier, Andrew Marry, Donna Bruns Stockrahm, Alison Wallace, Mark Wallert, Kathryn Wise, Brian Wisenden, Patricia 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, two emphases are available for students majoring in Biology: 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-chiropractic, and pre-respiratory care. 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.

STUDENT LEARNING OUTCOMES

- Understand fundamental biological concepts at the molecular, cellular, organismal, and ecosystem levels.
- Recognize evolution as a unifying theme across biological disciplines.
- Demonstrate competence in general lab and field skills and be introduced to discipline-specific skills and their professional applications.
- Apply critical thinking skills and quantitative tools to evaluate biological information.
- Practice effective oral and written communication of scientific ideas in the manner of professional biologists.
- Acquire basic research skills in introductory courses and refine these skills in advanced courses including independent research.

- Recognize the value of multicultural and ethical perspectives in the advancement and application of science in human society.

UPPER LEVEL WRITING REQUIREMENT

BIOL 341: Genetics

B.A. DEGREE IN BIOLOGY (120 Credits)

Core Requirements (12 Credits)

BIOL 111 Cell Biology (4)

BIOL 115 Organismal Biology (4)

BIOL 341 Genetics (4)

Requirements (12 Credits)

BIOL 345 Principles of Ecology (4)

BIOL 348 Evolutionary Biology (3)

BIOL 350 Microbiology (4)

BIOL 484 Biology Seminar (1)

Restricted Electives (13-16 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 enroll in BIOL 385L must also enroll in BIOL 385.

BIOL 305 General Botany (4)

BIOL 321 Invertebrate Zoology (3)

BIOL 322 Vertebrate Zoology (4)

BIOL 325 Plant Taxonomy (3)

BIOL 326 Field Botany (3)

BIOL 347 Plant Physiology (4)

BIOL 349 Human Physiology (4)

BIOL 360 Cellular and Molecular Physiology (4)

BIOL 365 Developmental Biology (4)

BIOL 372 Aquatic Biology (4)

BIOL 385 Molecular Biology (3)

BIOL 385L Biology 385 Lab (1)

BIOL 402 Principles of Animal Behavior (3)

BIOL 430 Immunobiology (3)

BIOL 438 Medical Microbiology (3)

BIOL 455 Wildlife Ecology (4)

Related Requirements (22-26 Credits)

Students must complete at least six credits in mathematics at the level of MATH 127 or above. Students must complete General Chemistry I and General Chemistry II and their corresponding labs. Students may choose from College Physics I and II OR General Physics I and II and their corresponding labs. CHEM 150 General Chemistry I (3)
CHEM 150L General Chemistry Laboratory I (1)
CHEM 210 General Chemistry II (3)
CHEM 210L General Chemistry II Lab (1)
PHYS 160 College Physics I (3)
PHYS 160L College Physics I Lab (1)

PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)

B.A. DEGREE IN BIOLOGY WITH EMPHASIS IN HEALTH AND MEDICAL SCIENCES (120 Credits)

Core Requirements (12 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 341 Genetics (4)

Requirements (13 Credits)

BIOL 323 Human Anatomy (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 Biology 385 Lab (1)
 BIOL 430 Immunobiology (3)
 BIOL 438 Medical Microbiology (3)

Related Requirements (22-27 Credits)

Students must complete 8 credits of Chemistry and 8 credits of Physics (either College Physics I and II OR General Physics I and II and their corresponding labs). Students may substitute CHEM 180 and 185L for CHEM 210 and CHEM 210L, with the permission of their faculty advisor. Students must also complete at least six credits in mathematics at the level of MATH 127 or higher.

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)
 PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)

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 pre-professional area of 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 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 365 Organic Chemistry II Lab (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 Group and Team Communication (3)
 COMH 315 Health Agencies and Services (3)
 COMH 401 Health Aspects of Aging (3)
 CSIS 103 Computer Concepts and Applications (3)
 CSIS 104 Spreadsheet and Database Applications (3)
 ENGL 387 Technical Report Writing (4)
 HLTH 305 Introduction to Nutrition (3)
 HSAD 326 Epidemiology (3)
 HLTH 330 Disease Prevention (2)
 HSAD 414 Health Services Planning and Evaluation (3)
 HSAD 416 Health Services Management (3)
 HSAD 418 Medical and Health Care Law (3)
 HSAD 419 Financial Management of Health Care Organizations (3)
 MATH 232 Applied Statistics (3)
 MATH 234 Introduction to Probability and Statistics (3)
 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 202 Developmental Psychology (3)
 PSY 220 Social Behavior (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.A. DEGREE IN BIOLOGY WITH EMPHASIS IN ECOLOGY AND EVOLUTIONARY BIOLOGY (120 Credits)

Core Requirements (12 Credits)

BIOL 111 Cell Biology (4)

BIOL 115 Organismal Biology (4)
 BIOL 341 Genetics (4)

Requirements (16 Credits)

BIOL 345 Principles of Ecology (4)
 BIOL 348 Evolutionary Biology (3)
 BIOL 385 Molecular Biology (3)
 BIOL 478 Research Design (3)
 BIOL 479 Advanced Research (3)

Restricted Electives (15-20 Credits)

Students must complete a minimum of one course from the Suborganismal area (Select from BIOL 347, 349); one course from the Organismal area (Select from BIOL 305, 321, 322, 325, 350); and one course from the Populations and Ecosystems area (Select from BIOL 326, 372, 402, or 455), and two additional course to reach a minimum of 15 credits.

BIOL 305 General Botany (4)
 BIOL 321 Invertebrate Zoology (3)
 BIOL 322 Vertebrate Zoology (4)
 BIOL 325 Plant Taxonomy (3)
 BIOL 326 Field Botany (3)
 BIOL 347 Plant Physiology (4)
 BIOL 360 Cellular and Molecular Physiology (3)
 BIOL 349 Human Physiology (4)
 BIOL 350 Microbiology (4)
 BIOL 372 Aquatic Biology (4)
 BIOL 402 Principles of Animal Behavior (3)
 BIOL 455 Wildlife Ecology (4)

Related Requirements (23-24 Credits)

Students must complete MATH 244 and any other MATH course from this list. Students must complete 8 credits of General Chemistry I & II. Students must complete 8 credits of Physics chosen from College Physics I & II OR General Physics I & II and their corresponding labs.

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 MATH 127 College Algebra (3)
 MATH 142 Pre-Calculus (4)
 MATH 143 Trigonometry (3)
 MATH 244 Applied Biostatistics (4)
 MATH 261 Calculus I (4)
 PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)
 PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)

Electives (6 Credits)

Select a minimum of six credits from the following list of courses:

BIOL 226 Field Biology of Plants (3)
 BIOL 335 Tropical Field Biology (3)
 BIOL 346 An Ecological Perspective (3)
 BIOL 365 Developmental Biology (4)
 BIOL 385L Biology 385 Lab (1)
 BIOL 469 Internship (1-12)
 BIOL 470 Undergraduate Laboratory Teaching (1)
 BIOL 497 Undergraduate Research in Biology (1-3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 365 Organic Chemistry II Lab (1)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CHEM 410 Biochemistry II (3)
 CHEM 415 Biochemistry Laboratory II (1)
 GEOS 305 Oceanography (3)
 GEOS 405 Geographic Information Systems (3)
 GEOS 416 Paleontology (3)
 GEOS 417 Taphonomy and Paleocology (3)
 MATH 262 Calculus II (4)

B.S. DEGREE IN LIFE SCIENCE-TEACHING (128 Credits)

Core Requirements (12 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 341 Genetics (4)

Requirements (15 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-six credits to the major total. Completion of this degree meets the requirements for licensure in General Science (grades 5-8) and Life Science (grades 9-12).

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 (13-16 Credits)

Students must take one course from the Physiology area (Select from BIOL 347, 349, or 360); one course from the Zoology area (Select from BIOL 321, 322, 372, 402, or 455); one course from the Cellular and Molecular area (Select from BIOL 365, 385, 385L, 430, or 438); and one course from the Botany area (Select from 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 (4)

BIOL 325 Plant Taxonomy (3)
 BIOL 326 Field Botany (3)
 BIOL 347 Plant Physiology (4)
 BIOL 349 Human Physiology (4)
 BIOL 360 Cellular and Molecular Physiology (4)
 BIOL 365 Developmental Biology (4)
 BIOL 372 Aquatic Biology (4)
 BIOL 385 Molecular Biology (3)
 BIOL 385L Biology 385 Lab (1)
 BIOL 402 Principles of Animal Behavior (3)
 BIOL 430 Immunobiology (3)
 BIOL 438 Medical Microbiology (3)
 BIOL 455 Wildlife Ecology (4)

Related Requirements (22-26 Credits)

Students must complete 8 credits of CHEM, and 8 credits of PHYS (chosen from College Physics I and II OR General Physics I and II and their corresponding labs) and 10 credits of GEOS. In addition to these requirements, students must complete six credits in MATH at the 127 level or above.
 CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 GEOS 115 Physical Geology (4)
 GEOS 116 Historical Geology (3)
 GEOS 360 Planetary Science (3)
 PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)
 PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)

B.S. DEGREE IN MEDICAL TECHNOLOGY (128 Credits)

Core Requirements (12 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 341 Genetics (4)

Requirements (50 Credits)

Students must complete 36 credits of BIOL 460 in order to complete this degree. Students must register for a minimum of 12 credits each term and complete the 36 credits within one year. Completion of a criminal background check is necessary before taking BIOL 460.

BIOL 349 Human Physiology (4)
 BIOL 350 Microbiology (4)
 BIOL 430 Immunobiology (3)
 BIOL 438 Medical Microbiology (3)
 BIOL 460 Medical Technology Clinical Education (8-12)

Related Requirements (23 Credits)

Students must complete all CHEM courses listed below and three credits of MATH at 127 or higher.
 CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 365 Organic Chemistry II Lab (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 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 232 Applied Statistics (3)
 MATH 234 Introduction to Probability and Statistics (3)
 MGMT 360 Principles of Management (3)
 PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)

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)

Select one of the following courses:

- BIOL 236 Introduction to Microbiology (3)
- BIOL 341 Genetics (4)
- BIOL 350 Microbiology (4)
- BIOL 365 Developmental Biology (4)

MINOR IN VACCINOLOGY (27 Credits)

MICRO 470 and MICRO 471 are taught at NDSU and require Tri-College University registration.

Core Requirements (19 Credits)

- BCBT 210 Introduction to Vaccinology Seminar (1)
- BCBT 410 Vaccinology Senior Seminar (1)
- BIOL 275 Quantitative Biology (4)
- BIOL 385 Molecular Biology (3)
- BIOL 385L Molecular Biology Lab (1)
- MATH 234 Introduction to Probability and Statistics (4)
- MICRO 470 Basic Immunology (3)
- MICRO 471 Immunology and Serology Lab (2)

Requirements (4 Credits)

Students must complete 4 credits from this list.

- BIOL 350 Microbiology (4)
- BIOL 360 Cellular and Molecular Physiology (4)
- CHEM 400 Biochemistry I (3)
- AND** CHEM 405 Biochemistry I Lab (1)

Restricted Electives (4 Credits)

Students must complete 4 credits from this list. BIOL 497 and CHEM 497 must involve techniques used in the vaccinology industry.

- BCBT 420 Introduction to working in a Regulated Biochemistry and Biotechnology Industry (4)
- BCBT 425 Introduction to Validation in the Biochemistry and Biotechnology Industry (4)
- BCBT 430 Introduction to Quality Assurance and Quality Control in the Biochemistry and Biotechnology Industry (4)
- BCBT 469 Biochemistry and Biotechnology Internship (1-4)
- BCBT 475 Biotechniques: Research and Communications I (2)
- BCBT 476 Biotechniques: Research and Communications II (2)
- BIOL 497 Undergraduate Research in Biology (1-3)
- CHEM 497 Undergraduate Research in Chemistry (1-3)

Electives (3-4 Credits)

Select one from the following list:

- BCBT 420 Intro to Working in a Regulated Biochemistry and Biotechnology Industry (4)
- BCBT 425 Introduction to Validation in the Biochemistry and Biotechnology Industry (4)
- BCBT 430 Intro to Quality Assurance and Quality Control in Biochem Biotech Industry (4)
- BCBT 435 Ethics in the Biochemistry and Biotechnology Industry (3)
- BCBT 469 Internship (1-12)

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: Sheri Erickson and Olgun Sahin

Faculty: M. Wayne Alexander, Mary Bader, Benjamin D. Clapp, Peter Geib, Ashish Gupta, James Hansen, Rajiv Kalra, Jerome Kuperman, Vinod Lall, Han Li, Anthony Lowrie, Ruth Lumb, Kim Mollberg, Cynthia Phillips, Leonard Sliwoski, Mary Stone, James Swenson, William Violet, Jinpei Wu

Areas of Study

MSUM is a member of AACSB. Majors in Accounting, Business Administration, and Finance are offered. Related requirements are in business ethics, economics, computer 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 ACCT 304, FINC 340, MGMT 360, and MKTG 310. Enrollment in any of these four classes requires completion of at least 40 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 2.50 (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.
 - ACCT 230 & 231
 - CSIS 104
 - ECON 202 & 204
 - ENGL 101
 - MATH 229 & 234
 - PSY 113 or SOC 110
 - CMST 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.

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, FINC 340, MGMT 360, and/or MKTG 310 if they have completed at least 40 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 40 semester credits and who also meet the specific course prerequisites may register for the following courses without any special permission: ACCT 304, 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" from the chair of 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 2.50 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 and Finance are offered. The following program descriptions are subject to change. See Program Worksheets for current degree requirements.

At least 60 non-business semester credits are required. At least half of the minimum credits required for degree completion must be earned from departments other than Economics and The School of Business. 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 and Finance 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 60 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 an effective business presentation.
- Identify and analyze ethical issues in a professional context.
- Demonstrate basic understanding of business from a global perspective.

UPPER LEVEL WRITING REQUIREMENT

PHIL 312: Business Ethics

B. S. DEGREE IN ACCOUNTING (120 Credits)**Core Requirements (27 Credits)**

Business Policy and Strategy should be taken after all core requirements are complete.

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- ACCT 304 Legal Environment of Business (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)
- BUS 498 Business Policy and Strategy (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 375 Accounting Systems (3)
- ACCT 430 Advanced 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 407 Commercial Transactions, Property and Special Topics (3)
- ACCT 432 Advanced Accounting II (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)

Related Requirements (27-28 Credits)

In addition to the courses listed below, students must take one Global Course and one Human Diversity course. This requirement can be met by taking one course in LASC Goal 7 and one course in LASC Goal 8. PHIL 312 is the writing-intensive course for this major. Students may substitute CSIS 103 and CSIS 104A for CSIS 104.

- 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 Calculus for Business and Social Sciences (3)
- MATH 234 Introduction to Probability and Statistics (3)
- PHIL 312 Business Ethics (3)
- PSY 113 General Psychology (3)
- OR SOC 110 Introduction to Sociology (3)
- ENGL 387 Technical Report Writing (4)
- OR CMST 301 Business and Professional Communication (3)

MINOR IN ACCOUNTING: BUSINESS MAJOR (15 Credits)**Requirements (12 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)

Restricted Electives (3 Credits)

Students must take one three credit upper level accounting elective. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

MINOR IN ACCOUNTING: NON-BUSINESS MAJOR (24 Credits)

Requirements (21 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 330 Intermediate Accounting I (3)
ACCT 331 Intermediate Accounting II (3)
ACCT 340 Introduction to Taxation (3)

Restricted Electives (3 Credits)

Students must take one three credit upper level accounting elective.

B.S. DEGREE IN BUSINESS ADMINISTRATION (120 Credits)

Core Requirements (27 Credits)

Business Policy and Strategy should be taken after all core requirements are complete.

ACCT 230 Principles of Accounting I (3)
ACCT 231 Principles of Accounting II (3)
ACCT 304 Legal Environment of Business (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)
BUS 498 Business Policy and Strategy (3)

Requirements (15 Credits)

Students must choose one MGMT, one FINC, and one MKTG course from the list below. In addition, students must choose one quantitative course (Select from ECON 370, MGMT 419, MKTG 419, MKTG 422, or MGMT 480) and also must take one international course (Select from ECON 300, ECON 425, FINC 445, MGMT 458 or MKTG 444.)

FINC 325 Financial Institutions and Markets (3)

OR FINC 360 Principles of Investment (3)

MGMT 433 Business Intelligence Using Data Mining (3)

OR MGMT 451 Organizational Behavior (3)

MKTG 311 Marketing Management (3)

OR MKTG 421 Consumer Behavior (3)

Restricted Electives (9 Credits)

Students must take nine credits numbered 300 or above from at least two of the following areas: Accounting, Business, Finance, Economics, Management, and Marketing. Students may use any combination of three credits of the following courses to count as one restricted business elective: Internship (469) or Problems (497).

Related Requirements (27-28 Credits)

In addition to the courses listed below, students must take one Global Course and one Human Diversity course. This requirement can be met by taking one course in LASC 7 and one course in LASC 8. PHIL 312 is the writing-intensive course for this major. Students may substitute CSIS 103 and CSIS 104A for CSIS 104.

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 Calculus for Business and Social Sciences (3)
MATH 234 Introduction to Probability and Statistics (3)
PHIL 312 Business Ethics (3)
PSY 113 General Psychology (3)

OR SOC 110 Introduction to Sociology (3)

ENGL 387 Technical Report Writing (4)

OR CMST 301 Business and Professional Communication (3)

B.S. DEGREE IN BUSINESS ADMINISTRATION WITH EMPHASIS IN MANAGEMENT (120 Credits)

Core Requirements (27 Credits)

Business Policy and Strategy should be taken after all core requirements are complete.

ACCT 230 Principles of Accounting I (3)
ACCT 231 Principles of Accounting II (3)
ACCT 304 Legal Environment of Business (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)
BUS 498 Business Policy and Strategy (3)

Requirements (18 Credits)

Students must take both MGMT courses listed, and one FINC, and one MKTG course from the list below. In addition, students must choose one quantitative course (Select from MGMT 419, or MGMT 480) and also must take one international course, MGMT 458.

FINC 325 Financial Institutions and Markets (3)

OR FINC 360 Principles of Investment (3)

MGMT 433 Business Intelligence Using Data Mining (3)

MGMT 451 Organizational Behavior (3)

MKTG 311 Marketing Management (3)

OR MKTG 421 Consumer Behavior (3)

Management Electives (3 Credits)

Select one course from the following list of Management electives:

- MGMT 315 Government and Business (3)
- MGMT 405 Small Business Management (3)
- MGMT 415 Industrial Organization and Public Policy (3)
- MGMT 416 Labor Economics (3)
- MGMT 419 Supply Chain Management (3)*
- MGMT 440 Human Resource Management (3)
- MGMT 456 Project Management in Business (3)
- MGMT 469 Internship (1-12)
- MGMT 480 Management Science (3)*
- MGMT 497 Problems in Management (1-3)

*If not used for quantitative course.

Business Electives (3 Credits)

Students must select one business elective that is not a MGMT course at the 300 or 400 level.

Related Requirements (27-28 Credits)

In addition to the courses listed below, students must take one Global Course and one Human Diversity course. This requirement can be met by taking one course in LASC 7 and one course in LASC 8. PHIL 312 is the writing-intensive course for this major. Students may substitute CSIS 103 and CSIS 104A for CSIS 104.

- 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 Calculus for Business and Social Sciences (3)
- MATH 234 Introduction to Probability and Statistics (3)
- PHIL 312 Business Ethics (3)
- PSY 113 General Psychology (3)
- OR SOC 110 Introduction to Sociology (3)
- ENGL 387 Technical Report Writing (4)
- OR CMST 301 Business and Professional Communication (3)

B.S. DEGREE IN BUSINESS ADMINISTRATION WITH EMPHASIS IN MARKETING (120 Credits)**Core Requirements (27 Credits)**

Business Policy and Strategy should be taken after all core requirements are complete.

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- ACCT 304 Legal Environment of Business (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)
- BUS 498 Business Policy and Strategy (3)

Requirements (18 Credits)

Students must take both MKTG courses listed and choose one

FINC and one MGMT course from the list below. In addition, students must choose one quantitative course (Select from MKTG 419 or MKTG 422) and also must take one international course, MKTG 444.

- FINC 325 Financial Institutions and Markets (3)
- OR FINC 360 Principles of Investment (3)
- MGMT 433 Business Intelligence Using Data Mining (3)
- OR MGMT 451 Organizational Behavior (3)
- MKTG 311 Marketing Management (3)
- MKTG 421 Consumer Behavior (3)

Marketing Electives (3 Credits)

Students must select one course from the list below. Students may not use more than three credits from MKTG 469 and MKTG 497 to satisfy this section.

- MKTG 317 Services Marketing (3)
- MKTG 330 Personal Selling (3)
- MKTG 335 Retail Management (3)
- MKTG 419 Supply Chain Management (3)*
- MKTG 422 Marketing Research (3)*
- MKTG 423 Marketing Communications (3)
- MKTG 433 Business Intelligence Using Data Mining (3)**
- MKTG 442 Marketing Seminar (3)
- MKTG 469 Internship (1-12)
- MKTG 497 Problems in Marketing (1-3)
- *If not used for quantitative course.
- **If not used as Management requirement.

Business Electives (3 Credits)

Students must select one business elective that is not a MKTG course at the 300 or 400 level.

Related Requirements (27-28 Credits)

In addition to the courses listed below, students must take one Global Course and one Human Diversity course. This requirement can be met by taking one course in LASC 7 and one course in LASC 8. PHIL 312 is the writing-intensive course for this major. Students may substitute CSIS 103 and CSIS 104A for CSIS 104.

- 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 Calculus for Business and Social Sciences (3)
- MATH 234 Introduction to Probability and Statistics (3)
- PHIL 312 Business Ethics (3)
- PSY 113 General Psychology (3)
- OR SOC 110 Introduction to Sociology (3)
- ENGL 387 Technical Report Writing (4)
- OR CMST 301 Business and Professional Communication (3)

**B. S. DEGREE IN BUSINESS ADMINISTRATION
WITH EMPHASIS IN INTERNATIONAL BUSINESS
(120 Credits)**

Core Requirements (27 Credits)

Business Policy and Strategy should be taken after all the core requirements are complete.

ACCT 230 Principles of Accounting I (3)
ACCT 231 Principles of Accounting II (3)
ACCT 304 Legal Environment of Business (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)
BUS 498 Business Policy and Strategy (3)

Requirements (18 Credits)

Students must choose one FINC, one MGMT, and one MKTG course from the list below. Students must complete the International courses MGMT 458 and MKTG 444 and select from either ECON 425 or FINC 445.

FINC 325 Financial Institutions and Markets (3)
OR FINC 360 Principles of Investment (3)
MGMT 433 Business Intelligence Using Data Mining (3)
OR MKTG 433 Business Intelligence Using Data Mining (3)
OR MGMT 451 Organizational Behavior (3)
MKTG 311 Marketing Management (3)
OR MKTG 421 Consumer Behavior (3)
MGMT 458 International Management (3)
MKTG 444 International Marketing (3)
ECON 425 International Trade and Finance (3)
OR FINC 445 International Financial Management (3)

Restricted Electives (6 Credits)

Students must take two courses from the following list, at least one must be numbered 300 or above. Continent/country specific courses will be allowed subject to advisor and chair approval.

ANTH 348 Ideas of Culture (3)
ECON 425 International Trade and Finance (3)*
OR FINC 445 International Financial Management (3)*
INTL 101 Introduction to Global Issues (3)
MC 300 International Communications (3)
POL 160 International Relations (3)
POL 360 American Foreign Policy (3)
*If not used for quantitative course.

Related Requirements (27-28 Credits)

In addition to the courses listed below, students must take one Global Course and one Human Diversity course. This requirement can be met by taking one course in LASC 7 and one course in LASC 8. PHIL 312 is the writing-intensive course for this major. Students may substitute CSIS 103 and CSIS 104A for CSIS 104.
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 Calculus for Business and Social Sciences (3)
MATH 234 Introduction to Probability and Statistics (3)
PHIL 312 Business Ethics (3)
PSY 113 General Psychology (3)
OR SOC 110 Introduction to Sociology (3)
ENGL 387 Technical Report Writing (4)
OR CMST 301 Business and Professional Communication (3)

Electives (16 Credits)

(2 years) All students must take two years of a second spoken language. All or part of this requirement may be waived due to demonstrated competency.

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 degree programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements. The courses must be chosen from at least three of the following areas: Accounting, Business, Economics, Finance, Management, or Marketing.

MINOR IN BUSINESS ADMINISTRATION: Non-Business Major (24 Credits)

Requirements (18 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 (3)
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, 433, or 451; MKTG 311, 421, or 422; FINC 360 or 445.

MINOR IN MANAGEMENT: Non-Business Major (24 Credits)

Requirements (21 Credits)

ACCT 230 Principles of Accounting I (3)
ECON 202 Principles of Economics I: Micro (3)
MATH 234 Introduction to Probability and Statistics (3)
MGMT 360 Principles of Management (3)
MGMT 380 Operations Management (3)
MGMT 405 Small Business Management (3)
OR MGMT 440 Human Resource Management (3)
MGMT 433 Business Intelligence Using Data Mining (3)
OR MGMT 451 Organizational Behavior (3)

Restricted Electives (3 Credits)

Students must take one three credit Management elective.

MINOR IN MARKETING: Non-Business Major (24 Credits)**Requirements (18 Credits)**

ECON 202 Principles of Economics I: Micro (3)
 MATH 234 Introduction to Probability and Statistics (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.

MINOR IN INTERNATIONAL BUSINESS: Non-Business Major (24 Credits)**Requirements (18 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 (3)
 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 FINANCE (78-79 Credits)**Core Requirements (27 Credits)**

Business Policy and Strategy should be taken after all core requirements are complete.

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 ACCT 304 Legal Environment of Business (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)
 BUS 498 Business Policy and Strategy (3)

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 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 446 Financial Decision Making (3)
 FINC 463 Futures and Options (3)
 FINC 466 Advanced Personal Finance (3)
 FINC 469 Internship (1-12)
 FINC 495 Special Topics in Finance (3)
 FINC 497 Problems in Finance (1-3)

Related Requirements (27-28 Credits)

In addition to the courses listed below, students must take one Global Course and one Human Diversity course. This requirement can be met by taking one course in LASC 7 and one course in LASC 8. PHIL 312 is the writing-intensive course for this major. Students may substitute CSIS 103 and CSIS 104A for CSIS 104.

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 Calculus for Business and Social Sciences (3)
 MATH 234 Introduction to Probability and Statistics (3)
 PHIL 312 Business Ethics (3)
 PSY 113 General Psychology (3)
 OR SOC 110 Introduction to Sociology (3)
 ENGL 387 Technical Report Writing (4)
 OR CMST 301 Business and Professional Communication (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 degree programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

MINOR IN FINANCE: Non-Business Major (24 Credits)**Requirements (18 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 (3)

Restricted Electives (6 Credits)

Students must earn six credits in Finance electives. Students may not use Accounting or Economics courses to fulfill this requirement.

Chemistry

Chemistry Department

Hagen Hall 407, (218) 477-2136

Chair: Jeffrey Bodwin

Faculty: Shawn Ellingboe, Gary Edverson, Craig Jasperse, Richard Lahti, Asoka Marasinghe, Abbas Pezeshk, Joseph Provost

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, business, chemical physics, computational chemistry or mathematics;
- B.S. degree in biochemistry and biotechnology with emphasis in cellular and molecular sciences or emphasis in biological chemistry (ACS approve);
- B.S. dual cooperative degree in chemistry (ACS approved) 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, business, chemical physics, computational 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.S. degree in biochemistry and biotechnology is a degree that combines studies in both biology and chemistry and is offered jointly by the chemistry and biosciences departments.. This major 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.

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

- To demonstrate basic knowledge and understanding of the fundamentals of experimental and theoretical chemistry.
- To demonstrate skills in analytical thinking, problem solving and application of scientific methods to experimental data.
- To demonstrate skills in laboratory operations including techniques, instrumentation, experimental design, interpretation and reporting of experimental results.
- To demonstrate ability to design and conduct chemical research projects.
- To demonstrate written and oral communication skills.

UPPER LEVEL WRITING REQUIREMENT

ENGL 387: Technical Report Writing

B.A. DEGREE IN CHEMISTRY—No Emphasis (120 Credits)

Core Requirements (23 Credits)

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 498 Seminar (1)

Requirements (9 Credits)

CHEM 365 Organic Chemistry II Lab (1)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CHEM 450 Physical Chemistry I (3)
 CHEM 455 Physical Chemistry I Lab (1)

Restricted Electives (12 Credits)

Students must choose twelve credits of electives from MATH, BIOL, CHEM, PHYS, or CSIS at the 300 level or higher in consultation with advisor.

Related Requirements (19-20 Credits)

Students must take a combination of College Physics I & II OR General Physics I & II with the required labs.
 PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)

PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)
 ENGL 387 Technical Report Writing (4)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 OR MATH 234 Introduction to Probability and Statistics (3)

B.A. DEGREE IN CHEMISTRY WITH EMPHASIS IN BIOLOGICAL CHEMISTRY (120 Credits)

Core Requirements (23 Credits)
 CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 498 Seminar (1)

Requirements (21 Credits)

BIOL 111 Cell Biology (4)
 BIOL 111L Cell Biology Lab (0)
 BIOL 341 Genetics (4)
 BIOL 341L Genetics Lab (0)
 CHEM 365 Organic Chemistry II Lab (1)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CHEM 410 Biochemistry II (3)
 CHEM 415 Biochemistry Laboratory II (1)
 CHEM 450 Physical Chemistry I (3)
 CHEM 455 Physical Chemistry I Lab (1)

Restricted Electives (12 Credits)

Students must earn twelve credits of Biology electives, and at least eight credits must be upper-division (300 level or higher).

Related Requirements (19-20 Credits)

Students must take a combination of College Physics I & II OR General Physics I & II with the required labs.

PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)
 PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)
 ENGL 387 Technical Report Writing (4)
 MATH 261 Calculus I (4)

MATH 262 Calculus II (4)
 OR MATH 234 Introduction to Probability and Statistics (3)

B.A. DEGREE IN CHEMISTRY WITH EMPHASIS IN BUSINESS (120 Credits)

Core Requirements (23 Credits)
 CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 498 Seminar (1)

Requirements (28 Credits)

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CSIS 104 Spreadsheet and Database Applications (3)
 ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 FINC 340 Financial Management (3)
 MGMT 360 Principles of Management (3)
 MKTG 310 Principles of Marketing (3)

Restricted Electives (12 Credits)

Students must earn three upper division (300 or higher) elective credits in Chemistry. They must also earn three upper-division elective credits in Chemistry or Biosciences OR three credits in Physics 160 or 200. Students must also earn six upper division elective credits from either Marketing, Finance, Management or take ACCT 304.

Related Requirements (10-11 Credits)

ENGL 387 Technical Report Writing (4)
 MATH 229 Calculus for Business and Social Sciences (3)
 OR MATH 261 Calculus I (4)
 MATH 234 Introduction to Probability and Statistics (3)

B.A. DEGREE IN CHEMISTRY WITH EMPHASIS IN CHEMICAL PHYSICS (120 Credits)

Core Requirements (23 Credits)
 CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)

CHEM 380 Analytical Chemistry I (4)
CHEM 498 Seminar (1)

Requirements (12 Credits)

CHEM 365 Organic Chemistry II Lab (1)
CHEM 450 Physical Chemistry I (3)
CHEM 455 Physical Chemistry I Lab (1)
CHEM 460 Physical Chemistry II (3)
CHEM 465 Physical Chemistry Laboratory II (1)
PHYS 188 Introduction to 20th Century Physics (3)

Restricted Electives (13 Credits)

Students must earn nine upper-division (300 level or higher) elective credits in Physics. In addition, students must earn at least four additional upper-division credits from Math, Biology, Chemistry, Physics, or Computer Science.

Related Requirements (20 Credits)

Students must take a combination of College Physics I & II OR General Physics I & II with the required labs.
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
PHYS 160 College Physics I (3)
PHYS 160L College Physics I Lab (1)
PHYS 161 College Physics II (4)
PHYS 161L College Physics II Lab (0)
PHYS 200 General Physics I (3)
PHYS 200L General Physics I Lab (1)
PHYS 201 General Physics II (4)
PHYS 201L General Physics II Lab (0)

B.A. DEGREE IN CHEMISTRY WITH EMPHASIS IN COMPUTATIONAL CHEMISTRY (120 Credits)

Core Requirements (23 Credits)

CHEM 150 General Chemistry I (3)
CHEM 150L General Chemistry Laboratory I (1)
CHEM 210 General Chemistry II (3)
CHEM 210L General Chemistry II Lab (1)
CHEM 300 Inorganic Chemistry I (3)
CHEM 350 Organic Chemistry I (3)
CHEM 355 Organic Chemistry I Lab (1)
CHEM 360 Organic Chemistry II (3)
CHEM 380 Analytical Chemistry I (4)
CHEM 498 Seminar (1)

Requirements (20 Credits)

CHEM 365 Organic Chemistry II Lab (1)
CHEM 400 Biochemistry I (3)
CHEM 405 Biochemistry Laboratory I (1)
CHEM 450 Physical Chemistry I (3)
CHEM 455 Physical Chemistry I Lab (1)
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)

Restricted Electives (10 Credits)

Students must earn at least four additional upper-division (300 level or higher) credits from Chemistry and six upper-division elective credits from CSIS.

Related Requirements (20 Credits)

Students must take a combination of College Physics I & II OR General Physics I & II with the required labs.
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
PHYS 160 College Physics I (3)
PHYS 160L College Physics I Lab (1)
PHYS 161 College Physics II (4)
PHYS 161L College Physics II Lab (0)
PHYS 200 General Physics I (3)
PHYS 200L General Physics I Lab (1)
PHYS 201 General Physics II (4)
PHYS 201L General Physics II Lab (0)

B.A. DEGREE IN CHEMISTRY WITH EMPHASIS IN MATHEMATICAL CHEMISTRY (120 Credits)

Core Requirements (23 Credits)

CHEM 150 General Chemistry I (3)
CHEM 150L General Chemistry Laboratory I (1)
CHEM 210 General Chemistry II (3)
CHEM 210L General Chemistry II Lab (1)
CHEM 300 Inorganic Chemistry I (3)
CHEM 350 Organic Chemistry I (3)
CHEM 355 Organic Chemistry I Lab (1)
CHEM 360 Organic Chemistry II (3)
CHEM 380 Analytical Chemistry I (4)
CHEM 498 Seminar (1)

Requirements (18 Credits)

CHEM 365 Organic Chemistry II Lab (1)
CHEM 450 Physical Chemistry I (3)
CHEM 455 Physical Chemistry I Lab (1)
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 (13 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 Math elective credits, and three upper-division credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (12 Credits)

ENGL 387 Technical Report Writing (4)
PHYS 200 General Physics I (3)
PHYS 200L General Physics I Lab (1)
PHYS 201 General Physics II (4)
PHYS 201L General Physics II Lab (0)

B.S. DEGREE IN CHEMISTRY (120 Credits)**Requirements (47 Credits)**

Students must earn at least three credits in CHEM 497.

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)
 CHEM 360 Organic Chemistry II (3)
 CHEM 365 Organic Chemistry II Lab (1)
 CHEM 380 Analytical Chemistry I (4)
 CHEM 400 Biochemistry I (3)
 CHEM 405 Biochemistry Laboratory I (1)
 CHEM 420 Inorganic Chemistry II (3)
 CHEM 425 Inorganic Chemistry II Lab (1)
 CHEM 450 Physical Chemistry I (3)
 CHEM 455 Physical Chemistry I Lab (1)
 CHEM 460 Physical Chemistry II (3)
 CHEM 465 Physical Chemistry Laboratory II (1)
 CHEM 480 Analytical Chemistry II (4)
 CHEM 497 Undergraduate Research (3)
 CHEM 498 Seminar (1)

Related Requirements (20 Credits)

Students must take a combination of College Physics I & II
 OR General Physics I & II with the required labs.

ENGL 387 Technical Report Writing (4)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)
 PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)

B.S. DEGREE IN CHEMISTRY EDUCATION (128 Credits)**Requirements (30 Credits)**

Students must fulfill all teacher licensure requirements, which will add 36 credits to the major. Students must earn at least one credit in CHEM 497.

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Lab I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 300 Inorganic Chemistry I (3)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (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 I Lab (1)
 CHEM 497 Undergraduate Research (1-3)

Restricted Electives (8 Credits)

Students must take a combination of College Physics I & II
 OR General Physics I & II with the required lab.

PHYS 160 College Physics I (3)
 PHYS 160L College Physics I Lab (1)
 PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 201L General Physics II Lab (0)

Related Requirements (29-30 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 (3)

MINOR IN CHEMISTRY (22 Credits)**Requirements (12 Credits)**

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 CHEM 350 Organic Chemistry I (3)
 CHEM 355 Organic Chemistry I Lab (1)

Electives (10 Credits)

Students must earn ten credits in Chemistry electives at the 300 level or above, not to include CHEM 304.

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 through the Tri-College University.

Communications

See Communication Studies, Mass Communications; Speech/Language/Hearing Sciences or Graphic Communications

Communication Studies

Communication Studies Department

Bridges Hall 260, (218) 477-2405

Chair: Jason Anderson

Faculty: Rebecca Gardner, Virginia Gregg, Theresa Hest, Merrie Sue Holtan

Today's world demands professionals who can communicate clearly and work effectively with others. Today's world requires that we evaluate messages and make good decisions based on what we see and hear. Today's world needs leaders who have clear visions for the future and the ability to make those visions reality.

Communication Studies represents a unique discipline that resides in the College of Arts and Humanities due to its roots in Aristotle's examination of the art of logic, argument, and persuasion. Over time, our discipline has evolved to examine human interaction and behavior using social scientific approaches to understanding the world. As a result, Communication Studies also aims to bridge the gap between the study of psychology (i.e., the mind) and sociology (i.e., the context, the situation) by seeking to better understand human communication through social scientific practices. Today, researchers might take any number of approaches to examining human communication including a focus on message production, message processing, and message effects in a variety of contexts including interpersonal, group, intercultural, family, health, and social influence to name just a few.

Communication is at the core of our work, community, and personal relationships. A major or minor from the Communication Studies Department will provide you with a solid foundation for today's world and prepare you for success! We cultivate articulate young professionals who are uniquely positioned for successful careers in a variety of fields and industries including: graduate school, health care, technology, education, business, non-profit agencies, service, retail, sales and global organizations. To read testimonials from our recent graduates, visit our department website at www.mnstate.edu/cmst.

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

CMST 301: Business and Professional Communication

B.A. DEGREE IN COMMUNICATION STUDIES (120 Credits)

Requirements (24 Credits)

- CMST 100 Speech Communication (3)
- CMST 110 Introduction to Communication Studies (3)
- CMST 210 Introduction to Communication Theory (3)
- CMST 215 Communication Research Methods (3)
- CMST 301 Business and Professional Communication (3)
- CMST 308 Group and Team Communication (3)
- CMST 310 Rhetorical Theory and Criticism (3)
- CMST 496 Senior Seminar (3)

Electives (18 Credits)

- 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 302 Practicum (1)
- CMST 309 Training and Development (3)
- CMST 311 Principles of Persuasion (3)
- CMST 315 Interpersonal Communication (3)
- 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 411 Political Campaign Communication (3)
- CMST 414 Health Communication (3)
- CMST 415 Teaching Methods: Communication Studies (3)
- CMST 469 Internship (1-12)
- LEAD 301 Introduction to Leadership (3)

Restricted Electives (6 Credits)

In consultation with their advisors, students will select six credits of coursework outside the Communication Studies Department that develops an area of interest.

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 Group and Team 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 411 Political Campaign Communication (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)

MINOR IN LEADERSHIP STUDIES***Requirements (14-15 Credits)***

- CMST 308 Group and Team Communication (3)
- LEAD 301 Introduction to Leadership (3)
- LEAD 498 Leadership Seminar (2-3)
- PDEV 207 The Seven Habits of Highly Effective People (2)
- PDEV 208 The Four Roles of Leadership (1)
- PHIL 312 Business Ethics (3)
- OR** PHIL 318 Professional Ethics (3)

Community Health

School of Nursing and Healthcare Leadership
Lommen Hall 213, (218) 477-2693

Chair: Barbara Matthees

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).

STUDENT LEARNING OUTCOMES

- 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

ENGL 387: Technical Report Writing

B.S. DEGREE IN COMMUNITY HEALTH (120 Credits)

Requirements (25 Credits)

COMH 200 Introduction to Health Promotion and Public Health (2)
 COMH 315 Health Agencies and Services (3)
 COMH 326 Epidemiology (3)
 COMH 401 Health Aspects of Aging (3)
 COMH 415 Design and Evaluation of Community Health Programs (3)
 COMH 418 Global Health Issues (3)
 COMH 469 Internship (8)

Related Requirements (39 Credits)

ENGL 387 Technical Report Writing (4)
 HLTH 110 Personal Health and Wellness (3)
 HLTH 125 First Aid and CPR (2)
 HLTH 305 Introduction to Nutrition (3)
 HLTH 330 Disease Prevention (2)
 HLTH 412 Education for Sexuality and HIV/AIDS (3)
 HSAD 420 Health Policy and Payment (3)
 MATH 234 Introduction to Probability and Statistics (3)
 MC 220 Desktop Publishing (3)
 PHIL 311 Morals and Medicine (3)
 SOC 350 Methods and Statistics for Social Research (4)
 SOC 375 Sociology of Health and Medicine (3)
 SW 499 Grant Writing (3)

Electives (Suggested not required)

ANTH 110 Introduction to Cultural Anthropology (3)
 BIOL 104 Human Biology(3)
 CMST 100 Speech Communication (3)
 PSY 265 Health Psychology (3)
 PSY 113 General Psychology (3)
 PSY 320 Social Psychology (3)
 SOC 110 Introduction to Sociology (3)
 SOC 220 Social Deviance (3)
 SOC 308 Social Gerontology (3)

EMPHASIS IN DENTAL OR ALLIED HEALTH (30 Credits)

In addition to the courses listed below, students must complete the core requirements and related requirements listed under 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 (COMH 469 Internship). Please check with the program advisor.

MINOR IN COMMUNITY HEALTH

Requirements (21 Credits)

COMH 200 Introduction to Health Promotion and Public Health (2)
 COMH 315 Health Agencies and Services (3)
 COMH 326 Epidemiology (3)
 COMH 418 Global Health Issues (3)
 HLTH 110 Personal Health and Wellness (3)
 HLTH 125 First Aid and CPR (2)
 HLTH 330 Disease Prevention (2)
 HLTH 412 Education for Sexuality and HIV/AIDS (3)

Computer Science and Information Systems

Computer Science and Information Systems Department
Bridges Hall 160, (218) 477-2299

Chair: Daniel Brekke

Faculty: Yurii Boreisha, Andrew Chen, Rhonda Ficek,
 Michael Haugrud, Richard Walker

The Computer Science and Information Systems Department (CSIS) offers programs of study in three areas: Computer Science, Computer Information Systems, and Computer Information Technology. 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. Programs of study in Computer Information Technology are intended for students interested in working on setting up the computing infrastructure of an organization, including network and system administration.

STUDENT LEARNING OUTCOMES

- Students will be able to competently develop computer software.
- Students will be able to communicate, to technical and non-technical audiences, about computers and computation through writing and speech.
- Students will possess competitive and comprehensive discipline-specific content knowledge.
- Students will be able to solve problems in their careers.

UPPER LEVEL WRITING REQUIREMENT

ENGL 387: Technical Report Writing

B.S. DEGREE IN COMPUTER SCIENCE (120 Credits)

Requirements (40 Credits)

CSIS 152 Introduction to Computers and Programming I (4)
 CSIS 221 Foundations of Computing (3)
 CSIS 252 Introduction to Computers and Programming II (4)
 CSIS 304 Databases (3)
 CSIS 320 Architecture (4)
 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 (12 Credits)

Students must choose twelve elective credits from the listed courses. At least nine of the twelve 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 316 Ethics in the Information Age (3)
 CSIS 330 Analysis and Design of Algorithms (3)
 CSIS 335 Graphical User Interface Programming (3)
OR CSIS 336 C#.Net Programming (3)
 CSIS 341 System and Network Administration (3)
 CSIS 355 Systems Software (3)
 CSIS 358 Introduction to Parallel Computing (3)
 CSIS 360 Linux Programming and Development Tools (3)
 CSIS 405 E-Commerce Technology (3)
 CSIS 440 Computer Networks Software Concepts (3)
 CSIS 441 Network Security (3)
 CSIS 443 Artificial Intelligence (3)
 CSIS 445 Graphics (3)
 CSIS 446 Decision Support Systems (3)
 CSIS 469 Internship (1-12)
 CSIS 490 Topics in Computer Science and Information Systems (1-3)
 CSIS 497 Undergraduate Research (1-3)

Related Requirements (33-35 Credits)

In addition to the courses listed, students must complete one of the following sequences: (BIOL 111 and BIOL 341) or (BIOL 115 and BIOL 305) or (CHEM 150 and CHEM 210) or (PHYS 160 and PHYS 161) or (PHYS 200 and PHYS 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 234 Introduction to Probability and Statistics (3)
OR MATH 335 Intermediate Probability and Statistics (3)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 310 Discrete Mathematics (4)

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 (120 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 304 Databases (3)
 CSIS 335 Graphical User Interface Programming (3)
OR CSIS 336 C#.Net Programming (3)
 CSIS 340 Software Engineering (4)
 CSIS 349 Networks and Data Communications (3)
 CSIS 405 E-Commerce Technology (3)
 CSIS 433 Design, Implementation and Support of Information Systems (3)
 CSIS 446 Decision Support Systems (3)

Related Requirements (31 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 Calculus for Business and Social Sciences (3)
 MATH 234 Introduction to Probability and Statistics (3)
 MGMT 360 Principles of Management (3)
 MGMT 380 Operations Management (3)
 MGMT 456 Project Management in Business (3)

Restricted 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 341 System and Network Administration (3)
 CSIS 352 Advanced Concepts in Programming (3)
 CSIS 360 Linux Programming and Development Tools (3)
 CSIS 440 Computer Networks Software Concepts (3)
 CSIS 441 Network Security (3)
 CSIS 469 Internship (1-12)
 CSIS 490 Topics in Computer Science and Information Systems (1-3)
 CSIS 497 Undergraduate Research (1-3)

MINOR IN COMPUTER INFORMATION SYSTEMS (24-25 Credits)**Requirements (15 Credits)**

CSIS 140 Introduction to Information Systems and Internet Technologies (4)
 CSIS 152 Introduction to Computers and Programming I (4)
 CSIS 304 Databases (3)
 CSIS 340 Software Engineering (4)

Related Requirements (6 Credits)

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)

Restricted Electives (3-4 Credits)

Select once course from this list:

CSIS 252 Introduction to Computers and Programming II (4)
 CSIS 349 Networks and Data Communications (3)
 CSIS 433 Design, Implementation and Support of Information Systems (3)

B.S. DEGREE IN COMPUTER INFORMATION TECHNOLOGY (120 Credits)**Requirements (45 Credits)**

CSIS 103 Computer Concepts and Applications (3)
OR CSIS 104 Spreadsheet and Database Applications (3)
 CSIS 115 Introduction to MAC OS X (1)
 CSIS 140 Introduction to Information Systems and Internet Technologies (4)
 CSIS 152 Introduction to Computers and Programming I (4)
 CSIS 221 Foundations of Computing (3)
 CSIS 304 Databases (3)
 CSIS 311 Server-Side Scripting (3)
 CSIS 316 Ethics in the Information Age (3)
 CSIS 336 C#.Net Programming (3)
 CSIS 341 System and Network Administration (3)
 CSIS 349 Networks and Data Communications (3)
 CSIS 360 Linux Programming and Development Tools (3)
 CSIS 440 Computer Networks Software Concepts (3)
 CSIS 441 Network Security (3)
 CSIS 469 Internship (1-12, minimum 3)
OR CSIS 405 E-Commerce Technology (3)
OR CSIS 446 Decision Support Systems (3)

Related Requirements (7 Credits)

CMST 100 Speech Communication (3)
 ENGL 387 Technical Report Writing (4)

Restricted Electives (6 Credits)

CSIS 212 Client-Side Scripting (3)
 CSIS 252 Introduction to Computers and Programming II (4)
 CSIS 260 Current Programming Languages (3)
 CSIS 290 Special Topics (1-3)
 CSIS 320 Architecture (4)
 CSIS 335 Graphical User Interface Programming (3)
 CSIS 340 Software Engineering (4)
 CSIS 345 Analysis and Design of Information Systems (3)

CSIS 352 Advanced Concepts in Programming (3)
CSIS 405 E-Commerce Technology (3)
CSIS 430 Operating Systems (4)
CSIS 433 Design, Implementation and Support of Information
Systems (3)
CSIS 435 Compilers (4)
CSIS 443 Artificial Intelligence (3)
CSIS 445 Graphics (3)
CSIS 446 Decision Support Systems (3)
CSIS 450 Programming Languages (3)
CSIS 469 Internship (1-12)
CSIS 485 Senior Seminar (1)
CSIS 490 Topics in Computer Science and Information
Systems (1-3)
CSIS 497 Undergraduate Research (1-3)

**MINOR IN COMPUTER INFORMATION
TECHNOLOGY (23 Credits)**

Requirements (23 Credits)

CSIS 103 Computers Concepts and Applications (3)
OR CSIS 104 Spreadsheet and Database Applications (3)
CSIS 140 Introduction to Information Systems and Internet
Technologies (4)
CSIS 152 Introduction to Computers and Programming I (4)
CSIS 221 Foundations of Computing (3)
CSIS 311 Server-Side Scripting (3)
CSIS 341 System and Network Administration (3)
CSIS 349 Networks and Data Communications (3)

Construction Management

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Pam McGee and Scott Seltveit

Program Coordinator: Norma Andersen

Construction Management Mission Statement

The mission of the Construction management program is three fold.

- To maintain a nationally accredited construction management program, which will produce graduates who will have the technical, managerial and general knowledge necessary to enter and advance professionally in the construction industry.
- Provide an environment, which encourages students and faculty to engage in professional development, critical thinking, and creative endeavors.
- Promote continuous improvement of teaching, learning and program curriculum.

Construction Management Career Information

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, processes, budgets, schedules, and contracts, as well as the safety of employees and the general public.

Construction Managers hold a variety of job titles, such as project manager, field engineer, estimator, scheduler, or construction manager. On large projects construction managers may work for a general contractor – the firm with the overall responsibility of all construction activities on the job. They oversee the completion of all construction processes in accordance with the engineers or architect's drawings and specification. From 2000 through 2010, CM graduates experienced excellent job placement and average starting salaries often exceeding \$50,000.

The Construction Management program has a laptop requirement. All CM majors who enroll in CM 230, Estimating I, are required to purchase and utilize a laptop computer in the subsequent CM coursework. CM 230 is the beginning of a sequence of courses where laptops will be integrated into the learning process. Freshman and sophomore level CM courses are exempt from this requirement unless students enroll in the estimating sequence their sophomore year.

Construction Management Program Assessment

The Construction Management (CM) program at MSU Moorhead is accredited by the American Council of

Construction Education (ACCE), which establishes standards and criteria for excellence in construction education.

Assessment of the Construction Management program must satisfy two entities. First and foremost, assessment is a requirement of the ACCE and the CM program must meet or exceed those standards. ACCE requires a comprehensive assessment plan including program outcomes and student performance outcomes, which are outlined below. In addition, Minnesota State University Moorhead (MSUM) requires that all degree-granting programs have a student outcomes assessment plan. This assessment plan is designed to satisfy both entities. The CM program mission statement, goals, objectives, and performance measures are detailed on Construction Management website (www.mnstate.edu/cm).

STUDENT LEARNING OUTCOMES

- The student will apply oral, written, graphic, and listening skills to enhance the communication process.
- The student will apply scientific knowledge to applications of applied mechanics, engineering design fundamentals, and associated mathematics to the construction practices and processes.
- The student will apply the principles of philosophy of general and human resource management systems, accounting, economics and ethics to the construction industry. (Including team building, leadership concepts/skills, and the Construction Code of Conduct).
- The student will demonstrate knowledge of the science of materials and methods of construction as they apply to the 16 Construction Specifications Institute (CSI) Divisions designated for the construction industry.
- The student will demonstrate estimating skills including interpretation of plans and construction documents, performing quantity take-offs, analyzing productivity and pricing, identifying appropriate cost codes, applying value engineering, and developing detailed project proposals and documentation necessary for construction job acquisition and completion.
- The student will be able to prepare complete cost control processes including the ability to establish a budget, develop a work breakdown structure, prepare cost reports, and forecast expenditures at completion of the project.
- The student will prepare a complete construction project schedule showing the logical sequence of activities and time duration, develop a procurement time table, and establish a project plan in order to monitor progress and update the schedules.
- The student will identify and execute construction safety standards including the ability to interpret the OSHA construction standards, establish safety and health procedures on the job site, perform hazard material and process analysis and enforce safety procedures.
- The student will be able to establish procedures for identifying distance and elevations from known points and

layout the project in accordance with the design drawings, and site information.

- The student will demonstrate knowledge of overall field administration at the construction site including developing a site plan, evaluating vendors and subcontractors, processing payment applications, maintaining field records such as purchase orders, change orders subcontract agreements, shop drawings, as-built drawings, daily job reports and construction reports.

UPPER LEVEL WRITING REQUIREMENT

PHIL 312: Business Ethics

Professional Growth Graduation Requirement

Students will be required to fulfill the professional growth portfolio requirements throughout the sophomore, junior, and senior years. The requirements are outlined 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 students 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.

Pre-Construction Management Requirements

Students must apply for Admission to the Construction Management Program to enroll in any upper-level (300 or above) CM courses. To be admitted into the CM Program, students must meet the following requirements and complete the Application for Admission:

- must have an overall GPA of 2.25 to be admitted, which includes all MSUM courses and courses accepted in transfer.
- must have completed, or be currently enrolled in your 45th credit.
- must have completed or be currently enrolled in the following MSUM courses (or equivalent courses accepted in transfer):
 - CM 216
 - CM 220
 - ENGL 101
 - CMST 100
 - MATH 229 or 2334

Transfer students who have earned a BS Degree, AA Degree, AS Degree, or AAS Degree will be automatically accepted into the CM Program provided your transfer grade point is 2.50 or greater. However, if you have not taken the equivalent courses as detailed in bullet point #3, you will have two semesters to complete them. If you have not completed the requisite courses within the specified time period, you will not be allowed to enroll in subsequent CM courses and will be placed in Pre-CM status.

Students in the process of completing the course requirements for admission may apply for one-semester enrollment privileges to take upper-level CM courses. You must complete the Application for One-Semester Enrollment and obtain the approval of your academic advisor. This privilege is for only one term and will only be granted once.

Students must earn at least a “C-“ in all required Construction Management and Engineering coursework. If students do not earn a “C-“, they will be required to repeat the course.

Minor Offered

Students may enroll in a Construction Management minor. The requirements are listed after the CM major requirements.

B.S. DEGREE IN CONSTRUCTION MANAGEMENT (120 Credits)

Requirements (56 Credits)

All majors must earn at least three credits from CM 469.

- CM 200 Surveying (3)
- CM 205 Professional Growth Seminar I (1)
- CM 216 Construction Graphics (3)
- CM 220 Commercial Building Methods and Materials (3)
- CM 223 Construction Statics (3)
- OR ENG 243 Engineering Mechanics I - Statics (3)
- CM 230 Estimating I: Quantity Survey (3)
- CM 254 Mechanical/Electrical Systems (3)
- CM 325 Heavy/Highway Construction Materials (3)
- CM 326 Heavy/Highway Construction Materials Lab (1)
- CM 327 Sustainability in the Built Environment (3)
- CM 335 Estimating II-Pricing and Productivity (3)
- CM 340 Planning and Scheduling (4)
- CM 350 Structural Design and Analysis (3)
- CM 365 Construction Safety (2)
- CM 370 Construction Documents and Specifications (3)
- CM 425 Equipment Productivity and Analysis (3)
- CM 434 Construction Cost Analysis (3)
- CM 460 Project Administration (3)
- CM 469 Internship (1-12)
- CM 496 Capstone Experience (3)

Restricted Electives (3 Credits)

Select one of the following courses:

- MGMT 380 Operations Management (3)
- MGMT 405 Small Business Management (3)
- MGMT 440 Human Resource 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 (39-40 Credits)

ACCT 230 Principles of Accounting I (3)
ACCT 304 Legal Environment of Business (3)
CHEM 150 General Chemistry I (3)
 AND CHEM 150L General Chemistry Laboratory I (1)
 OR GEOS 115 Physical Geology (4)
 GEOS 115L Physical Geology (0)
 OR PHYS 161 College Physics II (4)
 PHYS 161L College Physics II Lab (0)
CMST 100 Speech Communication (3)
ECON 202 Principles of Economics I: Micro (3)
 OR ECON 204 Principles of Economics II: Macro (3)
ENGL 101 English Composition I (3)
ENGL 201 English Composition II (3)
 OR ENGL 202 English Composition and Literature (3)
 OR ENGL 387 Technical Report Writing (4)
MATH 229 Calculus for Business and Social Sciences (3)
 OR MATH 234 Introduction to Probability and Statistics
(3)
MGMT 360 Principles of Management (3)
PHYS 160 College Physics I (3)
PHYS 160L College Physics I Lab (1)
TECH 385 Process Leadership (3)
TECH 394 Computer Applications for Technologists (4)

MINOR IN CONSTRUCTION MANAGEMENT (22 Credits)**Requirements (22 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 230 Estimating I: Quantity Survey (3)
CM 340 Planning and Scheduling (4)
CM 460 Project Administration (3)
ENG 200 Surveying (3)

Criminal Justice

Sociology and Criminal Justice Department

Lommen Hall 212, (218) 477-2045

Chair: Deborah White

Program Coordinator: Geri Hendricks-Sloan

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 are SOC 311, PSY 261, PSY 463, and CJ 430. They must also secure Red Cross First Responder certification. These classes are further described below in the section titled **Law Enforcement Track**.

STUDENT LEARNING OUTCOMES

- Understand the structure and processes of the criminal justice system.
- Understand the underlying theory of Anglo-American criminal law.
- Able to apply social science concepts to criminal justice and to social issues.
- Able to think critically.
- Demonstrate understanding of criminal justice research and organize ideas, evidence, information and argument.
- Able to use library and other information resources responsibly.
- Able to communicate orally and in writing concerning criminal justice issues.

UPPER LEVEL WRITING REQUIREMENT

CJ 309: Law and Society

B.A. DEGREE IN CRIMINAL JUSTICE (120 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. Other courses may be included with the Criminal Justice coordinator's approval.

CJ 201 Introduction to Juvenile Justice (3)

CJ 301 Delinquent Behavior (3)

OR SOC 301 Delinquent Behavior (3)

CJ 303 Punishment and Prisons (3)

OR SOC 303 Punishment and Prisons (3)

CJ 304 Community Corrections (3)

OR SOC 304 Community Corrections (3)

CJ 390 Topics in Criminal Justice (1-3)

CJ 497 Readings in Criminal Justice (1-3)

POL 230 Introduction to the Law (3)

POL 332 Constitutional Law I: Institutional Powers and Constraints (3)

AND 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 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) PHIL 110, SW 400 (6 cr) - Social Work

c) MATH 234, POL 310 (6 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.

be completed before students 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)

SOCIAL SCIENCE CONCENTRATION IN POLITICAL SCIENCE***Requirements (9 Credits)***

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under 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)***

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under 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)***

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed 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 120 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, and must

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

MacLean Hall 380, (218) 477-2842

Chair: Douglas Greenley

Faculty: Steven Bolduc, Vern Dobis, Oscar Flores-Ibarra, Tonya Jo Hansen, Gregory Stutes

The major and minor programs in economics offer a set of required and elective courses designed to develop students' abilities for analyzing complex choices in a rapidly changing world. Two emphases within the major in economics, a traditional liberal arts program and business economics are available. Both prepare students for careers in finance, private business, education and government.

STUDENT LEARNING OUTCOMES

- Students should demonstrate awareness of a broad range of sub-fields in economics.
- Students should demonstrate knowledge of basic economics concepts.
- Students should be able to conduct original research in economics.
- Students should demonstrate effective presentation skills.
- Students should demonstrate effective writing skills.
- Students should demonstrate the ability to apply quantitative tools.

UPPER LEVEL WRITING REQUIREMENT

ECON 498: Economics Senior Seminar

B.A. DEGREE IN ECONOMICS (120 Credits)

Requirements (21 Credits)

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)
 ECON 370 Quantitative Economic Analysis (3)
 ECON 425 International Trade and Finance (3)
 ECON 498 Economics Seminar (3)

Related Requirements (25 Credits)

In addition to the courses listed below, students must take six elective 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)
 CMST 100 Speech Communication (3)
 CSIS 103 Computer Concepts and Applications (3)
 ENGL 387 Technical Report Writing (4)
 MATH 229 Calculus for Business and Social Sciences (3)
 MATH 234 Introduction to Probability and Statistics (3)

Electives (15 Credits)

Fifteen additional elective credits in Economics courses are required. ECON 100 and 300 may not be used as electives for

Economic majors. Select from the following:
 ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
 ECON 315 Government and Business (3)
 ECON 317 History of Economic Thought (3)
 ECON 320 Money and Banking (3)
 ECON 335 Comparative Systems and Economic Development (3)
 ECON 350 Public Finance
 ECON 390 Topics in Economics
 ECON 411 Economic History of the United States (3)
 ECON 415 Industrial Organization and Public Policy (3)
 ECON 416 Labor Economics (3)
 ECON 430 Managerial Economics (3)
 ECON 469 Internship (1-12)
 ECON 492 Individual Study in Economics (1-3)

EMPHASIS IN BUSINESS ECONOMICS (80 Credits)

Requirements (27 Credits)

ECON 202 Principles of Economics I: Micro (3)
 ECON 204 Principles of Economics II: Macro (3)
 ECON 304 Intermediate Macroeconomic Theory (3)
 ECON 320 Money and Banking (3)
 ECON 370 Quantitative Economic Analysis (3)
 ECON 425 International Trade and Finance (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 (43 Credits)

In addition to the courses listed below, students must complete 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)
 CSIS 103 Computer Concepts for Business (3)
 ENGL 387 Technical Report Writing (4)
 FINC 340 Financial Management (3)
 MATH 229 Calculus for Business and Social Sciences (3)
 MATH 234 Introduction to Probability and Statistics (3)
 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. ECON 100 may not be used as an elective.

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)

OR ECON 425 International trade and Finance (3)

ECON 302 Intermediate Microeconomic Theory (3)

OR ECON 304 Intermediate Macroeconomic Theory (3)

Electives (9 Credits)

Nine approved credits in Economics courses. ECON 100 does not count as an elective. Select from the following:

ECON 302 Intermediate Microeconomic Theory (3)

OR ECON 304 Intermediate Macroeconomic Theory (3)

ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)

ECON 317 History of Economic Thought (3)

ECON 320 Money and Banking (3)

ECON 335 Comparative Systems and Economic Development (3)

ECON 350 Public Finance (3)

ECON 390 Topics in Economics (3)

ECON 411 Economic History of the United States (3)

ECON 425 Industrial Organization and Public Policy (3)

ECON 416 Labor Economics (3)

ECON 425 International Trade and Finance (3)

OR ECON 300 Global Economic Issues (3)

ECON 430 Managerial Economics (3)

ECON 469 Internship (1-12)

ECON 497 Individual Study in Economics (1-3)

Elementary and Early Childhood Education

School of Teaching and Learning

Lommen Hall -216, (218) 477-2216

Chair: Erin Gillett and Ok-Hee Lee

Faculty: John Benson, Layna Cole, Ruth Newton, Valerie Ritland, Peggy Rittenhouse, Rebecca Theisen

Additional information about education policies and degree requirements can be found under *Teacher Education*.

AREAS OF STUDY

Early Childhood Education, Elementary Inclusive Education with the option of Special Education Licensure, and Graduate Education in Curriculum & Instruction and Special Education. Descriptions of the graduate programs and courses may be requested from the Office of Graduate Studies.

Elementary and Early Childhood Admissions Requirements

Student wishing to complete a major in Elementary Inclusive Education or Early Childhood Education must meet all the SARTE (Selective Admission and Retention in Teacher Education) requirements. These requirements include:

- A cumulative GPA of 2.75.
- Completion of 45 semester credits.
- GPA of 2.25 in LASC.
- Verification from supervisor of experience with groups of children/adolescents in a teaching/learning setting.
- Demonstrated 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.

Please refer to the SARTE information and instructions, under *Teacher Education*, in this **Bulletin** for details.

Completion of the Minnesota Teacher Licensure Exam (MTLE): Basic Skills Tests are required before students can enroll in 300 and 400 level courses with the education prefix of ED, EECE, SPED or STL. Passing all three sections of MTLE: Basic Skills is required for Minnesota Licensure. Students must also pass the appropriate MTLE Licensure Exams before they may apply for Minnesota licensure. Students should consult with their advisor.

Major in Elementary Inclusive Education

This program prepares teachers to teach the wide range of diverse learners found in today's K-6 classrooms. The course of study emphasizes academic content knowledge, assessment of student needs, differentiated instruction, collaborative decision making, with an emphasis on learning in field-based placements. Because the program prepares teachers for inclusive classrooms, with 23 additional credits it is possible to also pursue licensure in Special Education.

Major in Early Childhood Education

The Early Childhood Education major prepares students to teach in inclusionary programs serving children from infancy to 8 years old. These programs include licensed childcare, pre-school, Head Start, Early Childhood Family Education, and public school kindergarten and first, second, and third grade classrooms. The Early Childhood Education 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.

Continued adherence to the SARTE requirements, including a cumulative GPA of 2.75, is required for enrollment in any 300/400 level education course. Grades of C- or higher must be earned in all courses that are required for licensure.

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 organized, effective, and appropriate lessons.
- Uses appropriate informal and/or formal assessment methods to evaluate.
- Demonstrate knowledge of human development through appropriate interaction activities and demeanor.
- Demonstrate competence in employing appropriate technology.
- Express ideas articulately in written and oral communication.
- Recognize individual differences and gives opportunities for diverse learners to learn.
- Foster a safe, compassionate and respectful educational environment that promotes learning.
- Guide student behavior effectively and appropriately.
- Solicit suggestions and feedback from others and is receptive to them.
- Analyze own performance and seeks sources of improvement.
- Plan creative lessons and units.
- Employ diverse teaching strategies.
- Maintain professional conduct as evidenced by punctuality interaction with others, preparedness, and initiative.

UPPER LEVEL WRITING REQUIREMENT

EECE 488: Contemporary Issues and Ethics in Early Childhood Education for the B.S. in Early Childhood Education.

EECE 441: Children's Literature: Content and Methods for the B.S. in Elementary Inclusive Education.

B.S. DEGREE IN EARLY CHILDHOOD EDUCATION (128 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 (3)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
EECE 230 Child Development and Learning for Teachers (3)
SPED 225 Individuals with Exceptionalities (3)
STL 291 Early Literacy (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 220 Foundations of Early Childhood & Early Childhood Special Education (3)
EECE 234 Play and Development (3)
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 426 Primary Methods (3)
EECE 428 Building Partnerships (3)
EECE 430 Infant/Toddler Programs and Practices (3)
EECE 433 Preschool and Kindergarten Curriculum (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 and Physical Education in the Elementary Schools (2)
MUS 319 Music for Classroom Teachers (3)
SPED 427 Instrumental Strategies: Preschool (3)

Related Requirements (18 Credits)

In addition to the listed courses, students must complete two of the following three courses: BIOL 370, GEOS 170, and PSCI 170.

AMCS 233 Education and Multicultural America (3)
CMST 100 Speech Communication (3)
ENGL 102 Composition and Literature II (3)

OR ENGL 202 English Composition and Literature (3)
MATH 303 Foundations of Number Systems (3)

B.S. DEGREE IN ELEMENTARY INCLUSIVE EDUCATION (128 Credits)

Core Requirements (20 Credits)

ED 205 Introduction to Education (3)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
SPED 225 Individuals with Exceptionalities (3)
STL 291 Early Literacy (3)
STL 327 Technology in Education (2)
STL 330 Child Development and Learning for Teachers (3)

Requirements (52-60 Credits)

Students who choose not to add Special Education Licensure must complete at least 10 credits of STL 481E Student Teaching: Elementary.

ART 350 Methods and Materials: Art for the Elementary Classroom (3)
EECE 441 Children's Literature: Content and Methods (4)
HLTH 311 Health and Physical Education in the Elementary Schools (2)
MATH 406 Mathematics in the Elementary School (3)
MUS 319 Music for Classroom Teachers (3)
STL 226 Social Studies Content for Elementary Teachers (2)
STL 341 Reading/Writing Methods P-3 (3)
STL 388 Classroom Assessment (3)
STL 413 Effective Teaching (3)
STL 428 Building Partnerships (3)
STL 442 Advanced Reading and Writing Methods P-3 (3)
STL 443 Learning Environment (3)
STL 474 Methods in Teaching Elementary Science & Environmental Education (3)
STL 475 Teaching Reading and Writing Grades 4-6 (3)
STL 476 Methods for Teaching Elementary Social Studies (3)
STL 481E Student Teaching: Elementary (8-16)

Related Requirements (30 Credits)

AMCS 233 [LASC 7] Education and Multicultural America (3)
BIOL 370 Exploring Biology (3)
CMST 100 [LASC 1A] Speech Communication (3)
ENGL 202 [LASC 6] English Composition and Literature (3)
OR ENGL 102 Composition and Literature II (3)
GEOS 170 [LASC 4] Earth Science Today (3)
MATH 102 [LASC 3] Introduction to Mathematics (3)
MATH 303 Foundations of Number Systems (3)
MATH 304 Informal Geometry (3)
PSCI 170 [LASC 4] Physical Science I (3)

LICENSURE OPTIONS IN SPECIAL EDUCATION

On-campus students can earn Minnesota licensure to teach in Special Education through the B.S. in Elementary Inclusive Education.

DEVELOPMENTAL DISABILITIES (DD) OPTION (34 credits)

In addition to the courses listed below, students must complete the core requirements, requirements and related requirements listed under the B.S. Degree in Elementary Inclusive Education

Requirements (34 Credits)

SPED 414 IEP Policies and Methods (2)
 SPED 417 Educating Students with Severe Disabilities (3)
 SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
 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 468D DD Middle/Secondary (Severe) Competency Based Field Experience (4)
 SPED 470 Secondary Services & Transitional Planning (3)
 SPED 471 Behavior and Environment Management (3)
 SPED 494 Legal/Social Foundations of Special Education (3)

EMOTIONAL/BEHAVIOR DISORDERS (E/BD) OPTION (26 credits)

In addition to the courses listed below, students must complete the core requirements, requirements and related requirements listed under the B.S. Degree in Elementary Inclusive Education

Requirements (26 Credits)

SPED 414 IEP Policies and Methods (2)
 SPED 455 Characteristics of Students with Learning and Behavior Problems (4)
 SPED 463 Assessment Strategies (3)
 SPED 463L Assessment Lab (1)
 SPED 468C E/BD Middle/Secondary Competency Based Field Experiences (4)
 SPED 470 Secondary Services & Transitional Planning (3)
 SPED 471 Behavior and Environment Management (3)
 SPED 478 Educational Interventions: Emotional/Behavioral Disorders (3)
 SPED 494 Legal/Social Foundations of Special Education (3)

LEARNING DISABILITIES OPTION (26 credits)

In addition to the courses listed below, students must complete the core requirements, requirements and related requirements listed under the B.S. Degree in Elementary Inclusive Education

Requirements (26 Credits)

SPED 414 IEP Policies and Methods (2)
 SPED 455 Characteristics of Students with Learning and Behavior Problems (4)

SPED 463 Assessment Strategies (3)
 SPED 463L Assessment Lab (1)
 SPED 468B SLD Middle/Secondary Competency Based Field Experiences (4)
 SPED 470 Secondary Services & Transitional Planning (3)
 SPED 471 Behavior and Environment Management (3)
 SPED 475 Informal Assessment/Teaching Strategies: Students with Learning Disabilities (3)
 SPED 494 Legal/Social Foundations of Special Education (3)

The Minnesota Board of Teaching has determined that Specialty Areas are no longer required for licensure in Elementary Education. Instead, they have authorized teacher education programs to offer Endorsements, which are *optional* additions to the Elementary Education license. In the near future we expect to offer Endorsements in Mathematics, Science, and Preprimary Education. These endorsements are still in development.

MINOR IN LANGUAGE AND LITERACY (20-21 Credits)**Requirements (10 Credits)**

Students interested in this minor must consult with the EECE Department Chair and declare the minor.
 ED 205 Introduction to Education (3)
 EECE 441 Children's Literature: Content and Methods (4)
 STL 291 Early Literacy (3)

Restricted Electives (8 Credits)

Students must take three of the listed courses.
 ED 448 Reading Study Skills in the Content Areas (3)
 EECE 425 Improvement of Instruction in Reading and Language Arts (2)
 EECE 445 Remedial and Corrective Reading (3)
 EECE 449 Linguistics in Reading (3)

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 Survey of Speech-Language-Hearing Disorders (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 of EECE 467K. This approach to licensure is only available to students who obtained Minnesota 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 467K Practicum: Pre-Primary (1-4)

CERTIFICATE IN READING (15 Credits)***Requirements (12 Credits)***

ED 448 Reading Study Skills in the Content Areas (3)
EECE 445 Remedial and Corrective Reading (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 TEACHING AND LEARNING WITH TECHNOLOGY (18 Credits)***Requirements (18 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

Chemistry Department**Hagen Hall 103, (218) 477-2572****Chair:** Jeffrey Bodwin**Physics Department****Hagen Hall 307, (218) 477-2141****Chair:** Matthew Craig

MSUM is the only public university in Minnesota to have a Dual Degree program with the University of Minnesota. Students complete the first three years of study in Chemistry or Physics at MSUM. They then transfer to the University of Minnesota, 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 University of Minnesota. MSUM has a similar arrangement with the University of North Dakota for some engineering programs.

English

English Department

Weld Hall 216, (218) 477-2235

Chair: Sheila Coghill

Faculty: Kevin Carollo, Alan Davis, Tim Decker, John Early, Lin Enger, Laura Fasick, Jill Frederick, Yahya Frederickson, Stephen Hamrick, Susan Imbarrato, Elizabeth Kirchoff, Michael McCord, Katherine Meiners, Sandy Pearce, Hazel Retzlaff, Liz Rowse, Sharon Scapple, Elizabeth Severn, Thomas Tamaro, Kevin Zepper, 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 Studies, 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.

See Mass Communications section for Publishing Certificate requirements.

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

ENGL 496: Literature Capstone Seminar for the B.A. in English Emphasis in Literature.

ENGL 487: Advanced Technical Report Writing or ENGL 488: Writing Capstone for the B.A. in English Emphasis in Writing

ENGL 491: Teaching English in the Secondary Schools for the B.S. in English Education.

MC 309: Reporting for the B.A. in English and Mass Communications.

B.A. DEGREE IN ENGLISH (120 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. Students must select the Emphasis in Literature or the Emphasis in Writing in order to complete the English major. **ENGL 200 is 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 (17 Credits)

Students must complete the B.A. in English core requirements and requirements..

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 (16 Credits)

In addition to the courses listed below, students must complete the core requirements and requirements listed 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 (4)

Restricted Electives (4 Credits)

Students must take a minimum of four credits in literature electives at the 300 or 400 level.

B.S. DEGREE IN COMMUNICATION ARTS AND LITERATURE EDUCATION (128 Credits)

Core Requirements (22 Credits)

English 200 is a prerequisite for all core requirements.

ENGL 200 Introduction to Literary Studies (3)

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 (58 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)

CMST 100 Speech Communication (3)

ED 205 Introduction to Education (3)

ED 294 Educational Psychology (3)

ED 310 Social Foundations of Education (3)

ED 398 Field Experience in Secondary Education (2)

ED 443S Classroom Management/Consultation (3)

ED 448 Reading Study Skills in the Content Areas (3)

ED 461S Student Teaching: Secondary (10)

SPED 225 Individuals with Exceptionalities (3)

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)

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 one course must be at the 300 or 400 level.

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 EDUCATION (35 Credits)**Core Requirements (16 Credits)**

Students who seek this minor must earn a teaching major in another discipline. ENGL 200 is a prerequisite.

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)

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.

B.A. DEGREE IN ENGLISH AND MASS COMMUNICATIONS (120 Credits)**Core Requirements (19 Credits)**

ENGL 200 Introduction to Literary Studies (3)
 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)

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.

Exercise Science

See Physical Education

Film Studies

Cinema Arts and Digital Technologies Department
Roland Dille Center for the Arts 116, (218) 477-2126

Chair: Kyja Kristjansson-Nelson

Faculty: Anthony Adah, Tom Brandau, Raymond Rea

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 new digital technologies into the curriculum.

Two emphases are available in this major. Film History and Criticism focuses on the theoretical and historical analysis of cinema as it relates to various genres, directors, and other topical studies. The Film Production emphasis gives students the opportunity to get hands-on experience in cinematography, picture and sound editing, directing, producing, and screenwriting.

The faculty and students of the Cinema Arts and Digital Technologies Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. 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

FILM 480: Film Theory and Criticism

B.A. DEGREE IN FILM STUDIES (120 Credits)

Core Requirements (23 Credits)

FILM 100 Tech Training: Video Production (1)

FILM 101A Practicum (1)

OR FILM 101B Practicum (1)

OR FILM 101C Practicum (1)

OR FILM 101D Practicum (1)

FILM 172 Video Production (3)

FILM 280 History of Film (3)

FILM 280S Studio in Film History (1)

FILM 281 Film Appreciation (3)

FILM 281S Studio in Film Appreciation (1)

FILM 386 Genre Studies (3)

OR FILM 387 Director Studies (3)

OR FILM 388 Topical Studies (3)

FILM 402 Senior Seminar Project Development (1)

FILM 480 Film Theory and Criticism (3)

FILM 496 Senior Seminar (3)

EMPHASIS IN FILM HISTORY AND CRITICISM (29 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in Film Studies.

Requirements (17 Credits)

FILM 302 Practicum (1)

FILM 382 Film and the Novel (3)

FILM 385 International Cinema (3)

FILM 385S Studio in International Cinema (1)

FILM 386 Genre Studies (3)

FILM 387 Director Studies (3)

FILM 388 Topical Studies (3)

Electives (12 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)

FILM 200 Technical Training: Beginning Filmmaking (1)

FILM 270 Introduction to Telecommunications and Film (3)

FILM 290 Topics in Film (1-3)

FILM 284 Beginning Filmmaking (3)

FILM 384 Techniques of Film Directing (4)

FILM 390 Topics in Film (1-3)

FILM 416 Special Projects in Film (1-3)

FILM 469 Internship (1-12)

FILM 472 Advanced Video Production (3)

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 (29 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.A. Degree in Film Studies.

Requirements (16 Credits)

ENGL 285 Scriptwriting (4)
 FILM 200 Technical Training: Beginning Filmmaking (1)
 FILM 284 Beginning Filmmaking (3)
 FILM 384 Techniques of Film Directing (4)
 FILM 400 Technical Training Intermediate Filmmaking (1)
 FILM 484 Intermediate Filmmaking (3)

Electives (13 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 270 Introduction to Telecommunications and Film (3)
 FILM 290 Topics in Film (1-3)
 FILM 382 Film and the Novel (3)
 FILM 385 International Cinema (3)
 FILM 385S Studio in International Cinema (1)
 FILM 386 Genre Studies (3)
 FILM 387 Director Studies (3)
 FILM 388 Topical Studies (3)
 FILM 390 Topics in Film (1-3)
 FILM 401 Technical Training Advanced Filmmaking (1)
 FILM 416 Special Projects in Film (1-3)
 FILM 469 Internship (3-12)
 FILM 472 Advanced Video Production (3)
 FILM 485 Advanced Filmmaking (3)
 FILM 490 Topics in Film (1-3)
 GCOM 216 3D Modeling (3)
 GCOM 316 Three Dimensional Animation (3)
 GCOM 416 Advanced 3D Graphics (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 Studio Production II (2)
 MUS 382 Digital Audio for Multi-Media (3)
 PHIL 320 Philosophy of the Arts (3)
 OR ART 320 Philosophy of the Arts (3)
 THTR 230 Principles of Acting (3)

THTR 232 Principles Makeup Stage/Film (2)
 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 (22 Credits)

Requirements (18 Credits)

FILM 280 History of Film (3)
 FILM 280S Studio in Film History (1)
 FILM 281 Film Appreciation (3)
 FILM 281S Studio in Film Appreciation (1)
 FILM 385 International Cinema (3)
 FILM 385S Studio in International Cinema (1)
 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 (4 Credits)

At least one of the elective courses must be an upper division Film Studies course not listed in the minor requirements section.

MINOR IN FILM PRODUCTION (22 Credits)

Requirements (19 Credits)

FILM 100 Technical Training Video Production (1)
 FILM 172 Video Production (3)
 FILM 200 Technical Training Beginning Filmmaking (1)
 FILM 281 Film Appreciation (3)
 FILM 281S Studio in Film Appreciation (1)
 FILM 284 Beginning Filmmaking (3)
 FILM 384 Techniques of Film Directing (4)
 FILM 480 Film Theory and Criticism (3)

Electives (3 Credits)

Any upper division Film Studies course not listed on the minor requirements section.

Finance

See Business

Geoarchaeology

See Geosciences under Anthropology and Earth Science

Geography

See Geosciences under Anthropology and Earth Science

Geology

See Geosciences under Anthropology and Earth Science

Geosciences

See Anthropology and Earth Science

Gerontology

Sociology and Criminal Justice Department
Lommen Hall 102, (218) 477-2045

Chair: Deborah White

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

- Exhibit an understanding of the processes (social, economic, biological, psychological) of aging and the implications of an aging society.
- Exhibit an ability to apply the concepts of gerontology to issues relevant to understanding older adults.
- Exhibit an ability to think critically.
- Exhibit an understanding of social research, including the ability to apply research findings to issues concerning older adults.
- Exhibit an ability to organize ideas, evidence, information, and argument.
- Exhibit an ability to use library, internet, and community resources.
- Exhibit an ability to communicate orally and in writing concerning gerontological issues.
- Prepare service delivery personnel who will work in positions that impact older adults.

UPPER LEVEL WRITING REQUIREMENT

PHIL 311: Morals and Medicine

B.A. DEGREE IN GERONTOLOGY (120 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 (3)

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 400 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)

COMH 315 Health Agencies and Services (3)

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 330 Disease Prevention (2)

MGMT 360 Principles of Management (3)

MGMT 451 Organizational Behavior (3)

MKTG 310 Principles of Marketing (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 and Policy Practice (3)

SW 490 Topics in Social Work (1-3)

EMPHASIS IN ANTHROPOLOGY (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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)**

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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 (13 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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.

COMH 200 Introduction to Health Education and Health Promotion (2)

COMH 315 Health Agencies and Services (3)

HLTH 305 Introduction to Nutrition (3)

HLTH 330 Disease Prevention (2)

EMPHASIS IN HEALTH SERVICES**ADMINISTRATION (12 Credits)**

Students must complete the B.A. in Gerontology core requirements, restricted electives and electives.

Requirements (12 Credits)

This is the emphasis in Health Services Administration for the Gerontology degree.

COMH 315 Health Agencies and Services (3)

HSAD 416 Health Services Management (3)

HSAD 418 Medical and Health Care Law (3)

HSAD 419 Financial Management of Health Care Organizations (3)

EMPHASIS IN POLITICAL SCIENCE (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and electives listed 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 120 Social Psychology (3)

SOC 302 Social Theory (3)

SOC 310 Dominant-Subordinate Group Relations (3)

MINOR IN GERONTOLOGY (24 Credits)

Requirements (15 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)

Graphic Communications

Cinema Arts and Digital Technologies Department
Center for the Arts 116, (218) 477-2126

Chair: Kyja Kristjansson-Nelson

Program Faculty: Tristia Conzemius, Mike Ruth

Upon graduation, you will receive a Bachelor of Science degree in Graphic Communications, with an **emphasis in 3D Graphics, Digital Design and Production, or Interactive Multimedia**. 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.

Graphic Communications and Its Related Disciplines

Graphic Communications, while dealing with design, focuses more on the production and technology aspects of the graphics industry. A degree in Graphic Design focuses more on design and aesthetics, and incorporates fine arts and art history courses into the degree. A Mass Communications degree is more involved with content and placement of mass media, such as public relations and advertising, journalism, and photojournalism.

Graphic Communications Emphasis

The Graphic Communications degree with an emphasis in **Digital Design and Production** involves primarily the Adobe Creative Suite applications. Classes are focused on using the software to design graphics and layouts, create new graphics and images, and manipulate and enhance images. Projects are prepared from concept to production. At the 400 level, students take prepress and production courses in which they learn to prepare projects for an offset lithographic press using digital prepress techniques. Graduates work in advertising agencies, newspapers, magazines, printing companies, in-house corporations, and music industry and multimedia production.

The Graphic Communications degree with an emphasis in **Interactive Multimedia** concentrates on multimedia and web design and development. Within this emphasis students take classes using software such as Flash, Dreamweaver, Photoshop, Javascript, and PHP/SQL. Classes may also include scripting and audio production. Graduates work in multimedia houses, web design firms, production houses, video editing, television stations, music industry, and advertising agencies.

The **3D Graphics** emphasis in the **Graphic Communications program** concentrates on technical graphics, 3D modeling, animation game graphics and simulations. Within this emphasis students take classes using software such as; **3D Studio Max, MAYA, AutoCAD, Pro Tools, Final Cut Pro.**

Classes also include video and audio production. Graduates may find employment with video production houses, video editing, television stations, music industry, multimedia and web design firms, and advertising agencies.

For all students within the Graphic Communications major there is a common core of courses. The core includes all of the introductory courses that lead into both emphases to ensure all graduates have a basic knowledge of both areas. This also helps students make an educated decision about which emphasis to focus. The common core also includes upper level classes such as project management and the GCOM final project.

Declaring a Graphic Communications Major

Before declaring a Graphic Communications major, students must first complete the **Pre-Graphic Communications** program (see GCOM Handbook). Once completed, students must apply for admission to the Graphic Communications program.

Graduation Requirements for a Graphic Communications Major

To graduate with a B.S. degree in Graphic Communications, students must complete **ALL** of the courses in the major with a **“C”** or above and have an **overall GPA of at least 2.5**.

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.

- The student will be able to apply oral, written, graphic and effective listening 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.
- 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).
- 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.
- 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

ENGL 387: Technical Report Writing

B.S. DEGREE IN GRAPHIC COMMUNICATIONS (128 Credits)

Core Requirements (30 Credits)

These courses are required of all students who major in Graphic Communications. Students must also select one of the emphases in: 3D Graphics, Digital Design & Production or Interactive Multimedia.

CSIS 115 Introduction to MacOS X (1)
 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 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)

ECON 100 The American Economy (3)
 MATH 127 College Algebra (3)
 PSY 113 General Psychology (3)
 OR SOC 110 Introduction to Sociology (3)
 PHIL 312 Business Ethics (3)
 OR PHIL 318 Professional Ethics (3)

Electives (9 Credits)

Nine credits of elective GCOM courses. Three credits must be a GCOM 290 or GCOM 390 course.

GCOM 290 Topics in Graphic Communication (1-3)
 OR GCOM 390 Topics in Graphic Communication (1-4)

EMPHASIS IN 3D GRAPHICS (12-13 Credits)

In addition to the courses listed below, students must complete the core requirements, related requirements and electives listed under the B.S. Degree in Graphic Communications.

Requirements (12-13 Credits)

GCOM 316 Three Dimensional Animation (3)
 GCOM 416 Advanced 3D Graphics (3)
 MUS 382 Digital Audio for Multi-Media (3)
 FILM 100 Technical Training: Video Production (1)
 AND FILM 172 Video Production (3)
 OR MC 251 Desktop Video (3)

EMPHASIS IN DIGITAL DESIGN AND PRODUCTION (12 Credits)

In addition to the courses listed below, students must complete the core requirements, related requirements and electives listed 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)

EMPHASIS IN INTERACTIVE MULTIMEDIA (12 Credits)

In addition to the courses listed below, students must complete the core requirements, related requirements and electives listed under B.S. Degree in Graphic Communications.

Requirements (12 Credits)

CSIS 212 Client-Side Scripting (3)
 GCOM 366 Dreamweaver/CSS (3)
 GCOM 368 Multimedia Authoring with Flash (3)
 GCOM 466 Advanced Interactive Graphics (3)

MINOR IN GRAPHIC COMMUNICATIONS (21 Credits)

Requirements (6 Credits)

GCOM 255 Beginning Computer Graphics (3)
 GCOM 266 Introduction to Multimedia (3)

Restricted Electives (9 Credits)

Students must select 3D Graphics (216, 316, 416) OR Digital Design and Production (355, 455, 457) OR Interactive Multimedia (366, 368, 466).
 GCOM 216 3D Modeling (3)
 GCOM 316 Three Dimensional Animation (3)
 GCOM 416 Advanced 3D Graphics (3)
 GCOM 355 Intermediate Computer Graphics (3)
 GCOM 455 Advanced Computer Graphics (3)
 GCOM 457 Digital Prepress (3)
 GCOM 366 Dreamweaver/CSS (3)
 GCOM 368 Multimedia Authoring with Flash (3)
 GCOM 466 Advanced Interactive Graphics (3)

Electives (6 Credits)

Students must choose six credits of Graphic Communications electives. GCOM 459A, 459B, and 469 are excluded from these electives and are prohibited from being used in a GCOM minor.

Graphic Design

See Art & Design

Health Education

Health and Physical Education Department
Nemzek Hall 106, (218) 477-2445

Chair: Wendy Frappier

MSUM's Health and Physical Education (HPE) Department offers programs for students who are interested in 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*.

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.

STUDENT LEARNING OUTCOMES:

- Health education teachers will assess individual and community needs for health education.
- Health education teachers plan effective health education programs.
- Health education teachers implement health education program.
- Health education teachers evaluate the effectiveness of coordinated school health programs.
- Health education teachers coordinate provision of health education programs and services.
- Health education teachers act as a resource person in health education.
- Health education teachers communicate health and health education needs, concerns, and resources.

UPPER LEVEL WRITING REQUIREMENT

HLTH 340: Health Methods and Materials

B.S. DEGREE IN HEALTH EDUCATION (128 Credits)

Requirements (24 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-six credits to the major.

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 Coordinated School Health Programs (2)

Electives (5 Credits)

COMH 200 Introduction to Health Education and Health Promotion (2)

COMH 315 Health Agencies and Services (3)

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 Coordinated School Health Programs (2)

PE 321 Human Physiology (3)

Health Services Administration

School of Nursing and Healthcare Leadership
Lommen Hall 213, (218) 477-2693

Chair: Barbara Matthees

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

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

- Students will exhibit basic knowledge of the managerial functions required to health services administration.
- Students will communicate (verbally/written) in a clear and professional manner.
- Students will have a minimum GPA of 2.75 in their core required courses.
- Students will demonstrate the knowledge and skills required for Long Term Care administration as defined by the Minnesota Board of Nursing Home Administrators.

UPPER LEVEL WRITING REQUIREMENT

HSAD 420: Health Policy and Payment
 AND PHIL 318: Professional Ethics

B.S. DEGREE IN HEALTH SERVICES ADMINISTRATION (128 Credits)

Requirements (32 Credits)

HLTH 330 Disease Prevention (2)
 HSAD 326 Epidemiology (3)
 HSAD 414 Health Services Planning and Evaluation (3)
 HSAD 416 Health Services Management (3)
 HSAD 418 Medical and Health Care Law (3)
 HSAD 419 Financial Management of Health Care Organizations (3)
 HSAD 420 Health Policy and Payment (3)
 HSAD 469 Internship (12)

Related Requirements (33 Credits)

ACCT 230 Principles of Accounting I (3)
 ACCT 231 Principles of Accounting II (3)
 ECON 202 Principles of Economics I: Micro (3)
 MATH 234 Intro to Probability and Statistics (3)
 MGMT 360 Principles of Management (3)
 MGMT 370 Management Information Systems (3)
 MGMT 440 Human Resource Management (3)
 MGMT 451 Organizational Behavior (3)
 MKTG 310 Principles of Marketing (3)
 PE 321 Human Physiology (3)
 PHIL 318 Professional Ethics (3)

EMPHASIS IN LONG TERM CARE

ADMINISTRATION (11 Credits)

Requirements (11 Credits)

HSAD 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

(21 Credits)

Requirements (21 Credits)

ACCT 230 Principles of Accounting I (3)

HSAD 414 Health Services Planning and Evaluation (3)

HSAD 416 Health Services Management (3)

HSAD 418 Medical and Health Care Law (3)

HSAD 419 Financial Management of Health

Care Organizations (3)

MGMT 360 Principles of Management (3)

MGMT 440 Human Resource Management (3)

History

History Department

MacLean Hall 374, (218) 477-2812

Chair: Annette K. Morrow

Faculty: Henry Chan, Nathan Clarke, Paul Harris, Steve Hoffbeck, 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 found that fulfill requirements in several areas of the Liberal Arts and Sciences Curriculum. 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:

Thinking Skills

- 1. Reading Comprehension:** Students should be able to identify the main point or thesis in a piece of historical writing, analyze how it is developed and supported with evidence, and recognize the evaluate differences in historical interpretation among different authors.
- 2. Historical Thinking Skills:** Students should be able to 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.
- 3. Critical Thinking:** Students should be able to synthesize a variety of evidence and formulate a thesis on the basis of insights gained from research; develop their thesis in an organized and logical progression, using appropriate evidence to support points; and recognize the shortcomings of their evidence and anticipate possible objections.

Research Skills

- 1. Finding Resources:** Student should be able to identify a variety of different kinds of source materials that could shed light on a particular topic, including both primary and secondary sources, and use the library and other resources to locate relevant sources.
- 2. Using Evidence:** Student should be able to identify a variety of different kinds of source materials that could shed light on a particular topic, including both primary and secondary sources, recognize potential sources of bias, and be able to evaluate which of their sources are the most authoritative.

Communication Skills

- 1. Written Communication:** Student should be able to write clear and grammatical prose, cite their sources properly, and

respond constructively to criticism to make appropriate revisions.

- 2. Oral Communication:** Students should be able to contribute clearly and thoughtfully to class discussion and deliver an effective oral presentation.

UPPER LEVEL WRITING REQUIREMENT

HIST 401: Senior Seminar

B.A. DEGREE IN HISTORY (120 Credits)

Requirements (18-19 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 300 Introduction to Historical Methods (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, or the modern Middle East.

Related Requirements (8 Credits)

Students must take one year of a foreign language or demonstrate equivalent competency.

Electives (3-4 Credits)

Students must earn at least 40 credits in courses with the History rubric. The elective total of 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 or European history.

Honors Program

MacLean 380, (218) 477- 2710

Program Coordinator: Oscar Flores

The MSUM Honors Program provides excellent teaching, mentorship, and long-term intellectual development to academically advanced students seeking an interdisciplinary liberal arts program. Emphasizing the development of the student's unique world view and intellectual potential, the program focuses the student's academic talent through courses that motivate thinking across disciplines. All of the requirements for the Honors Program fulfill Liberal Arts and Sciences Curriculum requirements, which provides advanced students with a challenging curriculum suited to their needs and abilities. Students begin with a core curriculum, the Honors Foundation, including Honors sections of Oral Communication, Mathematics, Written Communication, and Critical and Multicultural Thinking courses. Building upon this solid foundation, the Honors Colloquium develops students' analytical, logical, and critical reading skills, and is structured to encourage open discussion of current issues, controversial ideas, and broadly interdisciplinary intellectual themes. The Honors Seminars are a collection of classes taught in a variety of departments, but unified by broad ideas and interdisciplinary issues. The Capstone Experience enables the student to use and extend skills and abilities developed over the course of their experience, developing an intellectual and/or professional written project that demonstrates their accomplishments in the program.

Entrance Requirements:

Seeking the best scholars, the Honors Program Committee will review applications on a rolling basis. Admission to the Honors Program will be primarily based on a short sample (4-6 pages) of academic, creative, or intellectual written work. Students should provide the Honors Program Committee with their best written work. Although the written sample will remain the most important component of a student's application, the Committee will also consider

- SAT and/or ACT scores for entering freshmen
- Two-page personal statement outlining the students' academic and intellectual goals
- Minimum high school, college transfer, or current college GPA: 3.6 is recommended

The Honors Program committee understands that intellectual and scholarly ability can be effectively measured in a number of distinct ways. To that end, dedicated scholars are encouraged to apply regardless of any individual admissions requirement.

HONORS PROGRAM (15 Credits)

Core Requirements (6 Credits)

HON 200 Honors Colloquium in the Humanities (3)

HON 496 Capstone in Ethics and Civic Responsibility (3)

Restricted Electives (9 Credits)

Students must take at least three courses from those listed.

HON 300 American Society (3)

HON 301 Masterpieces of Literature (3)

HON 302 Tellings & Retellings (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 (3)

HON 312 Journeys in Literature: Classical and Medieval Masterpieces (3)

HON 314 Space, Time, and Change: Revolutions in Self Perception (3)

HON 315 Science and Time (3)

HON 316 The Dangerous 18th Century (3)

HON 318 Issues of the Nuclear Age (3)

HON 320 History of Science (3)

Humanities

See *Philosophy*

International Business

See *Business*

International Studies

Contact Faculty: Andrew Conteh, MA 380F,
(218) 477-4009 or Bruce Roberts, KH 213,
(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 country 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).

STUDENT LEARNING OUTCOMES

- Discuss how processes of globalization impact human rights.
- Describe linkages between globalization, migration and development.
- Discuss the impact of cultural context on one's own world view.
- Discuss how international experience has affected one's own understanding of the world.
- Demonstrate an ability to think critically.
- Demonstrate an ability to analyze issues from an interdisciplinary perspective.
- Demonstrate an ability to engage in thoughtful discussion of complex global issues and challenges.

UPPER-LEVEL WRITING REQUIREMENT

GEOS 320: Economic Geography

B.S. DEGREE IN INTERNATIONAL STUDIES (120 Credits)

Core Requirements (31-47 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 (3)
HIST 105 World History II (3)
INTL 101 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 (24-25 Credits)

In addition to the courses listed below, students must complete the core requirements listed 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 (3)
HIST 336 History of Mexico (3)
HSAD 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)
HIST 300 Introduction to Historical Methods (3)
POL 310 Political Science Research Methods (3)
SOC 350 Methods and Statistics for Social Research (4)

EMPHASIS IN DIPLOMACY (24-25 Credits)

In addition to the courses listed below, students must complete the core requirements listed under the B.S. Degree in International Studies.

Requirements (21 Credits)

Students must complete at least 21 credits from the listed courses.

ANTH 265 Language and Culture (3)
ANTH 313 Understanding Contemporary Africa (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 304 Africa in World History (3)
HIST 322 History of Britain II (3)
HIST 324 Twentieth Century Europe (3)
HIST 346 Modern China (3)
HIST 347 Modern Japan (3)
INTL 370 Understanding International Security (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)
HIST 300 Introduction to Historical 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

MacLean Hall 279, (218) 477-2912

Chair: Benjamin Smith

Faculty: John Hall, Linda Houts-Smith, Cecillia Mafla-Bustamante, Takanori Mita, Chizuko Shastri,

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 341 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.

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. A four week program to Cuervaca, Mexico is also available every year during the first summer term. Students can complete from 8-11 hours of course work during their stay at the *Universidad Internacional*. Students are accompanied by a full time faculty member and are required to take SPAN 290 the semester beforehand. For further information, contact the Department.

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.

UPPER LEVEL WRITING REQUIREMENT

HUM 320: Humanities East-West for the B.A. in East Asian Studies

See the department chairperson for the specific course for the B.A. in Languages.

SPAN 401: Advanced Spanish Grammar and Composition for the B.A. in Spanish

SPAN 401: Advanced Spanish Grammar and Composition for the B.S. in Spanish Education

STUDENT LEARNING OUTCOMES

Chinese

- East Asian Studies majors should be able to assess their knowledge of Asian history.
- East Asian Studies Major is able to demonstrate listening comprehension skills.
- East Asian Studies Major is able to demonstrate writing skills.
- East Asian Studies Major is able to demonstrate reading skills.

Japanese

- East Asian Studies Major is able to demonstrate listening comprehension skills.
- East Asian Studies Major is able to demonstrate writing skills.
- East Asian Studies Major is able to demonstrate reading skills.

B.A. DEGREE IN EAST ASIAN STUDIES (120 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)

HUM 320 Humanities East-West (3)

Students must also select one course from the following list:

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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements and related requirements listed under the B.S. 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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements and related requirements listed under the B.S. 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 Experience (3)
 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 320 Humanities East and West (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 (12 Credits).

In addition to the courses listed below, students must complete the core requirements and related requirements listed under the B.S. 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 Experience (3)
 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 320 Humanities East and West (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 SPANISH (120 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 390 Topics in Spanish Language, Literature, and Culture (1-4)
 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)
 SPAN 497 Independent Study in Spanish – Advanced Level (1-2)

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)

STUDENT LEARNING OUTCOMES

- Listening Proficiency: Students are able to understand main ideas and most details of connected discourse on a variety of topics in different times; demonstrate emerging awareness of culturally implied meanings.
- Reading Proficiency: Student are able to follow the main ideas or facts of written discourse.
- Writing Proficiency: Students are able to meet most practical writing needs.
- Oral proficiency: Students can initiate and maintain communication for most uncomplicated social tasks.

B.S. DEGREE IN SPANISH EDUCATION (128 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 (36 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)

Leadership Studies

See Communication Studies

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 390 Topics in Spanish Language, Literature, and Culture (1-4)
 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)
 SPAN 497 Independent Study in Spanish – Advanced Level (1-2)

STUDENT LEARNING OUTCOMES

- Listening Proficiency: Students are able to understand main ideas and most details of connected discourse on a variety of topics in different times; demonstrate emerging awareness of culturally implied meanings.
- Reading Proficiency: Student are able to follow the main ideas or facts of written discourse.
- Writing Proficiency: Students are able to meet most practical writing needs.
- Oral proficiency: Students can initiate and maintain communication for most uncomplicated social tasks.

MINOR IN SPANISH EDUCATION (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 202 Intermediate Spanish II (3)
 SPAN 211 Intermediate Spanish Conversation I (3)
 SPAN 212 Intermediate Spanish Conversation II (3)
 SPAN 301 Spanish Grammar & Composition I (3)
 SPAN 302 Spanish Grammar & Composition II (3)
 SPAN 311 Advanced Spanish Conversation (3)
 SPAN 321 Iberian Culture & Civilization (4)
 OR SPAN 322 Latin American Culture & Civilization (4)

Latin

See Classics

Legal Studies

Political Science Department

MacLean Hall 380, (218) 477-2942

Chair: Paul Kramer

Program Coordinator: Paul Kramer

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

- Students will demonstrate the ability to identify and analyze complex legal issues, show competence in legal research utilizing the full range of reference materials including computerized databases and demonstrate their understanding of the uniform rules of legal citation.
- Students will display an understanding of contemporary critiques of legal issues, be able to organize and structure substantive written essays in the field of jurisprudence in a coherent and logical manner, present and defend original ideas, recognize possible objections to their claims and be able to respond to such objections.
- Students will verify they have the capacity to solve complex multi-stage theoretical problems involving logical reasoning, analytical thinking and logical argumentation.

UPPER LEVEL WRITING REQUIREMENT

PHIL 318: Professional Ethics

B.A. DEGREE IN LEGAL STUDIES (120 Credits)

Core Requirements (18 Credits)

This core is required of all students who major in one of the Legal Studies emphases: The American Legal System, Economics, History, Human Rights, Philosophy, or Sociology and Criminal Justice. Students must complete one of these emphases to fulfill the degree requirements.

ACCT 230 Principles of Accounting I (3)
 ACCT 304 Legal Environment of Business (3)
 CMST 111 Argumentation and Debate (3)
 ECON 204 Principles of Economics II: Macro (3)
 PHIL 318 Professional Ethics (3)
 POL 230 Introduction to the Law (3)

Restricted Electives (21 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-four 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 302 Intermediate Microeconomic Theory (3)
 ECON 304 Intermediate Macroeconomic Theory (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)
 PHIL 300 History of Ethics (3)
 PHIL 303 Classical Philosophy (3)
 PHIL 305 Modern Philosophy: 17th Century (3)
 PHIL 306 Modern Philosophy: 18th Century (3)
 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 120 Social Psychology (3)
 SOC 300 Criminology (3)
 SOC 307 Sociology of Courts (3)
 SOC 309 Law and Society (4)

Related Requirements (12-13 Credits)

Students who major in one of the Legal Studies emphases (The American Legal System, Economics, History, Human Rights, Philosophy, or Sociology and Criminal Justice) must complete the listed courses. These courses may also be used to satisfy Liberal Arts and Sciences Curriculum requirements.

HIST 104 World History I (3)

OR HIST 105 World History II (3)

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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under the B.A. Degree in Legal Studies.

Requirements (12 Credits)

ACCT 306 Contracts and Business Entities (3)

ACCT 307 Commercial Transactions, Property and Special Topics (3)

CJ 337 Criminal Procedure (3)

POL 332 Constitutional Law I: Institutional Powers and Constraints (3)

EMPHASIS IN ECONOMICS (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under the B.A. Degree in Legal Studies.

Requirements (12 Credits)

ECON 302 Intermediate Microeconomic Theory (3)

ECON 304 Intermediate Macroeconomic Theory (3)

ECON 315 Government and Business (3)

ECON 317 History of Economic Thought (3)

EMPHASIS IN HISTORY (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under the B.A. Degree in Legal Studies.

Requirements (12 Credits)

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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under the B.A. Degree in Legal Studies.

Requirements (12 Credits)

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 (12 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under the B.A. Degree in Legal Studies.

Requirements (12 Credits)

PHIL 300 History of Ethics (3)

PHIL 303 Classical Philosophy (3)

PHIL 305 Modern Philosophy: 17th Century (3)

OR PHIL 306 Modern Philosophy: 18th Century (3)

PHIL 340 Symbolic Logic (3)

EMPHASIS IN SOCIOLOGY AND CRIMINAL JUSTICE (13 Credits)

In addition to the courses listed below, students must complete the core requirements, restricted electives and related requirements listed under the B.A. Degree in Legal Studies.

Requirements (13 Credits)

CJ 335 Criminal Law (3)

SOC 120 Social Psychology (3)

SOC 300 Criminology (3)

SOC 309 Law and Society (4)

Life Science (Teaching)

See Biosciences

Management

See Business

Marketing

See Business

Mass Communications

Mass Communications Department

MacLean Hall 260, (218) 477-2983

Chair: Mark Strand

Faculty: Deneen Gilmour, Martin Grindeland, Wayne Gudmundson, William Hall, Colan T. Hanson, Daniel Johnson, Jody Mattern, Aaron D. Quanbeck, Regene Radniecki, Camilla Wilson

The major in Mass Communications balances the breadth of the liberal arts and sciences curriculum with the depth of department's professional curriculum, along with a choice of unrestricted electives to provide a well-rounded educational experience. Majors must complete 120 credits with a minimum of 40 credits at the 300-400 level. Majors will completed a minimum of 42credits in the Liberal Arts and Sciences Curriculum, 39 to 69 credits in mass communications (credit totals vary with choice of emphasis), with the remaining balance of credits being unrestricted electives. The goal of the department's curriculum is to prepare a graduate for a career in the mass communications profession. While not formally required by the major, internships are strongly encouraged as a means of affording the student additional insight into one's chosen career.

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.

Mass Communications Common Core (21 credits)

All mass communication 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, as well as the technological skills needed to complement the storytelling process.

Mass Communications Professional Emphases (24-48 credits)

Students majoring in mass communications must complete one or more of the professional emphases. Students may choose from the following emphases: Advertising, Broadcast Journalism, Documentary Journalism, Integrated Advertising and Public Relations, Multimedia Journalism, Public Relations, and Photojournalism.

Advertising (36 credits plus 21 core = 57 credits)

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 an

integrated marketing communications campaign. Knowledge of persuasion is central to the advertising process.

Broadcast Journalism (24 credits plus 21 core = 45 credits)

The broadcast emphasis prepares students to write, report, photograph, edit and produce news for television. During the fall semester, students produce a television documentary. During the spring semester, students produce *Campus News*, a weekly program broadcast on Prairie Public Television.

Documentary Journalism (27 credits plus 21 core = 48 credits)

The documentary journalism emphasis prepares students to work on in-depth projects, including photo documentaries, television documentaries and online magazines. Students learn to write, report, photograph, edit and produce publications for print, broadcast and the internet.

Integrated Advertising and Public Relations (48 credits plus 21 core = 69 credits)

The integrated advertising and public relations emphasis prepares students to research, create, write, edit, design and produce advertising and public relations messages and campaigns; design, produce, and manage special events; and to develop promotions to support an integrated marketing communications campaign.

Multimedia Journalism (36 credits plus 21 core = 57 credits)

The multimedia journalism emphasis prepares students to investigate, write, report, photograph, digitally edit video and still photographs, copy-edit, design and produce content that incorporates formatting for both online and off-line publications. Students develop and publish an online publication, "Horizonlines.com," spring semesters.

Photojournalism (24 credits plus 21 core = 45 credits)

The photojournalism emphasis prepares students to investigate, report, photograph, and digitally edit photos for news stories, feature stories and photo documentaries. Students are involved in producing and publishing a photo-documentary each year.

Public Relations (39 credits plus 21 core = 60 credits)

The public relations emphasis prepares students to research, create, write, design and produce public relations messages and campaigns; design, produce and manage special events; and develop promotions to support an integrated marketing communications campaign. Knowledge of information-sharing and relationship-building are central to the public relations process.

Mass Communications Dual Major: Mass Communications and English (33 credits in Mass Communications and 36 credits in English = 69 credits)

The dual major in Mass Communications and English

prepares students to research and write creative stories, news stories and fictional or non-fictional feature stories. The dual major is available for those wishing to concentrate on writing. A student may choose to focus the writing experience to coincide with an interest in advertising, public relations, broadcast, photojournalism, multimedia journalism or documentary journalism.

Minor in Mass Communications (27 credits)

The minor in mass communications is designed to introduce students to mass communications and to develop one's skills in verbal and visual storytelling. Students can concentrate electives in a particular emphasis or may elect to take a broad range of electives from the various emphases in mass communications.

Certificate in Publishing (12 credits)

As a joint venture among the departments of English and Mass Communications, the Certificate in Publishing is designed to prepare students to work within the unique framework of the publishing industry. The certificate program delivers an educational experience that allows students to learn about the process of acquiring, editing, publishing and promoting literature. Students are afforded the opportunity to serve as interns associated with MSUM's New Rivers Press. 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

MC 306: Advertising Copywriting **OR** MC 307: Public Relations Processes for the B.S. in Mass Communications Emphasis in Advertising and Integrated Advertising and Public Relations

MC 307: Public Relation Processes for the B.S. in Mass Communications Emphasis in Public Relations

MC 309: Reporting for the B.S. in Mass Communications Emphases in Broadcast Journalism, Documentary Journalism, Multimedia Journalism and Photojournalism.

MC 309: Reporting for the B.A. in English and Mass Communications.

B.S. DEGREE IN MASS COMMUNICATIONS (120 Credits)

Core Requirements (21 Credits)

The core is required of all students who major in one of the Mass Communications emphases: advertising, broadcast journalism, documentary journalism, integrated advertising and public relations, multimedia journalism, public relations, and photojournalism.

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 (36 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (36 Credits)

MC 251 Desktop Video (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 383 Event Planning (3)

MC 459 Advertising Campaign Research (3)

MC 460 Advertising Campaign Execution (3)

EMPHASIS IN BROADCAST JOURNALISM (24 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (24 Credits)

Students are required to enroll in MC 344 twice, concurrently with MC 342 and with MC 343. A maximum of six credits of MC 344 will apply toward the emphasis. 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)

MC 440 Broadcast Documentary (3)

Recommended (0 Credits)

MC 345 Television News Producing (3)

EMPHASIS IN DOCUMENTARY JOURNALISM (27 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (27 Credits)

Students must complete MC 430 Documentary Photography twice for a total of six credits. Students are required to enroll in MC 344 concurrently with MC 343.

MC 309 Reporting (3)
 MC 330 Photojournalism (3)
 MC 343 Television News Photography (3)
 MC 344 Television News Video Editing (3)
 MC 405 Writing for the Web (3)
 MC 420 Digital Storytelling (3)
 MC 430 Documentary Photography (3)
 MC 440 Broadcast Documentary (3)

EMPHASIS IN INTEGRATED ADVERTISING AND PUBLIC RELATIONS (48 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (48 Credits)

MC 251 Desktop Video (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 320 Layout and Typography (3)
 MC 327 Creating a Newsletter (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 383 Event Planning (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)

EMPHASIS IN MULTIMEDIA JOURNALISM (36 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (36 Credits)

Students are required to enroll in MC 344 concurrently with

MC 342 or MC 343.
 MC 251 Desktop Video (3)
 MC 309 Reporting (3)
 MC 310 Copy Editing (3)
 MC 330 Photojournalism (3)
 MC 342 Television New Reporting (3)
OR MC 343 Television News Photography (3)
 MC 344 Television News Video Editing (3)
 MC 352 e-Communications (3)
 MC 405 Writing for the Web (3)
 MC 406 Feature Writing (3)
 MC 407 Magazine Writing (3)
 MC 420 Digital Storytelling (3)
 MC 492 Online Journalism Workshop (3)

EMPHASIS IN PHOTOJOURNALISM (24 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (24 Credits)

Students are required to enroll in MC 430 twice and will apply a maximum of six credits toward the photojournalism emphases.

MC 308 Broadcast Journalism (3)
OR MC 309 Reporting (3)
 MC 320 Layout and Typography (3)
 MC 330 Photojournalism (3)
 MC 331 Photo Editing (3)
 MC 343 Television News Photography (3)
 MC 344 Television News Video Editing (3)
 MC 430 Documentary Photography (3)

EMPHASIS IN PUBLIC RELATIONS (39 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mass Communications.

Requirements (39 Credits)

MC 251 Desktop Video (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 320 Layout and Typography (3)
 MC 327 Creating a Newsletter (3)
 MC 351 Interactive Online Communications (3)
 MC 352 e-Communications (3)
 MC 375 Case Studies in Organizational Public Relations (3)
 MC 383 Event Planning (3)
 MC 470 Public Relations Campaign Research (3)
 MC 471 Public Relations Campaign Execution (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.

CERTIFICATE IN PUBLISHING (12 Credits)**Requirements (6 Credits)**

Students must complete at least 3 credits of an internship.

MC 402 Introduction to Publishing (3)
 MC 469 Internship (1-12)

Electives (6 Credits)

Students must complete at least 6 credits chosen from the following list of electives:

ENGL 288 Introduction to Creative Writing (3)
 ENGL 354 Non Fiction Writing (3)
 ENGL 388 Creative Writing (3)
 ENGL 488 Advanced Creative Writing (4)
 ENGL 490 Special Topics (1-4)
 ENGL 497 Tutorial (1-3)
 MC 307 Public Relations Processes (3)
 MC 309 Reporting (3)
 MC 310 Copy Editing (3)
 MC 327 Creating a Newsletter (3)
 MC 390 Special Topics (1-3)
 MC 405 Writing for the Web (3)
 MC 406 Feature Writing (3)
 MC 407 Magazine Writing (3)
 MC 427 Public Relations Fundraising (3)
 MC 490 Special Topics (1-4)
 MC 497 Problems in Mass Communications (1-4)

B.A. DEGREE IN ENGLISH AND MASS COMMUNICATIONS (120 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

MacLean Hall 375, (218) 477-2274

Chair: Wayne Chen

Faculty: Sayel Ali, Adam Goyt, Timothy Harms, Ellen Hill, Justin James, O'Neil Lynch, Michael Miller, Kristine Montis, Lian Ng, Carol Okigbo, Timothy Peil, Walter Sizer, Ariyaratna Wijetunga

The Bachelor of Arts (B.A.) degree in mathematics requires a minimum of 120 credits and 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 requires a minimum of 120 credits and 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.

Math Placement and Testing Policy

Students who present acceptable ACT math subscores will be exempt from testing. The ACT math subscores will be used for course placement for college-level courses. Students without ACT scores or with ACT scores that signify the student is not ready for college-level work must take the Accuplacer tests. Information regarding Accuplacer testing is available at the Academic Resource Office FR 154.

The shelf life of ACT scores is 5 years from original test year in order to be considered for exemption. The shelf life of Accuplacer math scores is 24 months from original test date.

Students who have completed their math requirement at another institution will be exempt from testing. Students enrolled in courses leading up to their math requirement completion will also be exempt from testing and be able to register for the next course in the sequence.

ACT Math Sub-Score / Eligible to register for:

- 24 or above / Math 142 or higher
- 23 or above / Math 127 or MATH 232
- 19 or above / MDEV 127 or MATH 102 or MATH 105
- Below 19 / Must take the Accuplacer for placement

SAT Math Sub-Score / Eligible to register for:

- 560 or above / Math 142 or higher
- 540-559 / MATH 127 or MATH 232
- 460-539 / MDEV 127, MATH 102, MATH 105
- Below 460 / Must take the Accuplacer for placement

The first placement test is given at no cost to the students. Retests will cost \$10.00 per test session. Students are allowed two (2) retests per subject in a calendar year at MSUM. A two-week waiting period between tests for review and study is recommended.

Accuplacer Minimums / Eligible to register for:

- College Algebra 50 or above_ / MATH 142, MATH 143, MATH 229 or MATH 234
- Elementary Algebra 76 or above_ / MDEV 127, MATH 102, MATH 105
- Arithmetic 57 or above **OR** Arithmetic PLUS Elementary Algebra 100 or above/ MDEV 090
- None required / MATH 0052

Students who complete Math 102 or Math 105 and subsequently want or need to enroll in Math 127 must meet the required ACT or Accuplacer requirements for College Algebra (MATH 127). Students may need MDEV 127 before College Algebra if the placement requirements are not met.

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

MATH 491: Mathematical Writing for the B.A. in Mathematics.

MATH 491: Mathematical Writing for the B.S. in Mathematics Emphases in Actuarial Science and in Computation.

MATH 416: Math in the Secondary Schools for the B.S. in Mathematics Emphasis in Teaching.

B.A. DEGREE IN MATHEMATICS (120 Credits)

Requirements (33 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 310 Discrete Math (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 Mathematical Writing (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)

B.S. DEGREE IN MATHEMATICS (120 Credits)

Core Requirements (23 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 310 Discrete Math (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 (39 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mathematics.

Requirements (17 Credits)

MATH 336 Intermediate Probability and Statistics II (4)

MATH 421 Actuarial Science I (3)

MATH 435 Mathematical Statistics I (4)

MATH 491 Mathematical Writing (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 (33 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. Degree in Mathematics.

Requirements (16 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 Mathematical Writing (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 (23 Credits)

In addition to the courses listed below, students must complete the 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-six credits to the major.

MATH 316 Teaching Mathematics in the Middle Grades (3)

MATH 361 Intermediate Analysis I (4)

MATH 416 Mathematics in the Secondary School (3)

MATH 476 Abstract Algebra I (4)

MATH 486 History of Mathematics (3)

MATH 487 Foundations of Geometry (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 (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.

MINOR IN MATHEMATICS EDUCATION (25 Credits)

This program does not satisfy State of Minnesota middle school or secondary school licensure requirements.

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 487 Foundations of Geometry (3)

MINOR IN MATHEMATICS: ELEMENTARY EDUCATION MAJOR (21-23 Credits)

Contact your advisor for current licensure information on whether the minor satisfies the State of Minnesota mathematics licensure requirements for grades 5-8 or the licensure requirements for 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 course are not listed among the requirements for this minor.

Requirements (18 Credits)

MATH 232 Applied Statistics (3)
 OR MATH 234 Introduction to Probability and Statistics (3)
 OR MATH 335 Intermediate Probability and Statistics I (3)
 MATH 261 Calculus I (4)
 MATH 262 Calculus II (4)
 MATH 310 Discrete Mathematics (4)
 MATH 316 Teaching Mathematics in the Middle Grades (3)

Restricted Electives (3-5 Credits)

Students must take one of four courses listed.
 MATH 323 Multi-Variable and Vector Calculus (4)

AND MATH 260 Computer Calculus (1) (must be taken with or have as prerequisite)

OR MATH 327 Introduction to Linear Algebra (3)
 OR MATH 486 History of Mathematics (3)
 OR MATH 487 Foundations of Geometry (3)

Medical Technology

See Biosciences

Multicultural Studies

See American Multicultural Studies

Music

Music Department

Roland Dille Center for the Arts 102, (218) 477-2101

Chair: Tom Strait

Faculty: Laurie Blunsom, Allen Carter, Jenny Dufault, Nicholas Fryer, Henry Gwiazda, Ryan Jackson, Terrie Manno, Paul Nesheim, 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. Performance majors choose one of these options: keyboard, voice, wind instrument, stringed instrument, percussion, or 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.

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 Requirements

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. 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.

Differential Tuition

Differential tuition is charged for all music courses, except for Liberal Arts and Sciences Curriculum courses. This is in addition to the normal 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.

UPPER LEVEL WRITING REQUIREMENT

MUS 305: Western Traditions Since 1900.

B.A. DEGREE IN MUSIC (120 Credits) STUDENT LEARNING OUTCOMES

- Demonstrate a sufficient level of technique in their primary performance medium to artistically perform standard undergraduate-level repertoire.
- Understand the common elements and organizational patterns in music to demonstrate knowledge of forms, processes, structure, context, and styles including diverse cultural sources, from historical and theoretical perspectives.
- Show competency in secondary performing areas including piano and conducting.
- Complete a capstone writing project in music.

Core Requirements (30 Credits)

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 300 Conducting and Instrumentation (3)
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)
MUS 316 World Music Survey (3)

Requirements (22 Credits)

In addition to the courses listed, students must earn eight credits in ensemble and eight credits in performance study, two credits of which must be at the 200 level or above. Students must also earn two credits in piano performance or Class Piano III and IV. A piano proficiency exam is required for students studying piano as their primary instrument.

MUS 215 History of Jazz (3)

OR MUS 217 Pop/Rock Music for Non-majors (3)

OR MUS 240 American Music (3)

MUS 391 Writing Seminar in Music (1)

Restricted Electives (5 Credits)

Students must earn at least five credits in Music electives (any course with a MUS rubric).

Related Requirements (20 Credits)

Students must earn at least twenty credits in courses in addition to the requirements of the MSUM Liberal Arts and Sciences Curriculum program and the previously listed BA requirements and electives. Acceptable courses are those with a liberal arts focus, extra LASC courses or music courses from an approved Music Department list.

B.M. DEGREE MAJOR IN COMPOSITION (128 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. in Music.

Requirements (49 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; seven 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 184 Introduction to Audio Production (3)
 MUS 215 History of Jazz (3)
OR MUS 217 Pop/Rock Music for non-majors (3)
OR MUS 240 American Music (3)
 MUS 281 Studio Production I (2)
 MUS 375 Instrument Conducting (2)
OR MUS 377 Choral Conducting (2)
 MUS 381 Studio Production II (3)
 MUS 391 Writing Seminar in Music (1)
 MUS 450 Student Recital (1)
 MUS 471 Orchestration (2)
 MUS 481 Projects in Studio Production (1)

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.

B.Mus. DEGREE MAJOR IN MUSIC INDUSTRY (128 Credits)**STUDENT LEARNING OUTCOMES**

- Demonstrate a sufficient level of technique in their primary performance medium to artistically perform standard undergraduate-level repertoire.
- Understand the common elements and organizational patterns in music to demonstrate knowledge of forms, processes, structure, context, and styles including diverse cultural sources, from historical and theoretical perspectives.
- Show competency in secondary performing areas including piano and conducting.
- Demonstrate the ability to work in the field of music industry.

Core Requirements (30 Credits)

In addition to the courses listed, students must complete the courses listed as "core requirements" in the B.A. 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 300 Conducting and Instrumentation (3)
 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)
 MUS 316 World Music Survey (3)

Requirements (39 Credits)

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. Students must earn at least 3 credits of MUS 469 Internship.

MUS 166 Record Company Operations (3)
 MUS 184 Introduction to Audio Production (3)
 MUS 266 Legal and Ethical Issues in Music (3)
 MUS 284 Live Audio Production (2)
 MUS 365 Practicum (1)
 MUS 461 Senior Seminar: Current Issues in the Music Industry (2)
 MUS 469 Internship (1-12)

Choose either sequence:

MUS 281 Studio Production I (2)
 MUS 381 Studio Production II (2)
 MUS 481 Projects in Audio Production (1)
 MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)

OR

MUS 366 Venue Management (3)
 MUS 466 Artist Management and Promotion (3)

Restricted Electives (3 credits)

Select one course from the following list.
 MUS 215 History of Jazz (3)
 MUS 217 Pop/Rock Music for non-majors (3)
 MUS 240 American Music (3)

Electives (11 Credits)

Students must complete 11 credits selected from the following course list:

ACCT 230 Principles of Accounting I (3)
 CSIS 115 Introduction to MacOS X (1)
 CSIS 316 Ethics in the Information Age (3)
 FILM 172 Video Production (3)
 FILM 281 Film Appreciation (3)
 FILM 284 Beginning Filmmaking (3)
 FILM 384 Techniques of Film Directing (4)
 GCOM 266 Introduction to Multimedia (3)
 GCOM 366 Dreamweaver/CSS (3)
 GCOM 368 Multimedia Authoring with Flash (3)
 MGMT 360 Principles of Management (3)
 MKTG 310 Principles of Marketing (3)
 MUS 281 Studio Production II
 MUS 363 Audio for Film and Multimedia (3)
 MUS 364 Survey of Film Music (3)

MUS 366 Venue Management (3)
 MUS 381 Studio Production II (2)
 MUS 382 Digital Audio for Multi-Media (3)
 MUS 466 Artist Management and Promotion (3)
 MUS 482 Digital Audio II (2)
 MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)
 MUS 486 Projects in Computer Music (1-2)

B.M. DEGREE MAJOR IN MUSIC PERFORMANCE (128 Credits)

STUDENT LEARNING OUTCOMES

- Demonstrate a sufficient level of technique in their primary performance medium to artistically perform standard undergraduate-level repertoire.
- Understand the common elements and organizational patterns in music to demonstrate knowledge of forms, processes, structure, context, and styles including diverse cultural sources, from historical and theoretical perspectives.
- Show competency in secondary performing areas including piano and conducting.
- Artistically perform upper-level undergraduate solo literature.

OPTION IN JAZZ AND STUDIO MUSIC (53 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. Degree 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. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 151 Basic Commercial Keyboards (1)
 MUS 184 Introduction to Audio Production (3)
 MUS 215 History of Jazz (3)
 MUS 287 Jazz Theory and Improvisation I (2)
 MUS 372 Jazz Arranging I (2)
 MUS 387 Jazz Theory and Improvisation II (2)
 MUS 391 Writing Seminar in Music (1)
 MUS 433 Jazz Pedagogy (2)
 MUS 450 Student Recital (1)
 MUS 472 Jazz Arranging II (2)
 MUS 487 Jazz Theory and Improvisation III (2)

Restricted Electives (2 Credits)

Students must choose at least two credits from the listed courses.

MUS 217 Pop/Rock Music for non-majors (3)
 MUS 240 American Music (3)
 MUS 281 Studio Production I (2)

MUS 342 Seminar in Jazz Literature and Repertoire (2)
 MUS 364 Survey of Film Music (3)

OPTION IN KEYBOARD PERFORMANCE (53 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. in Music.

Requirements (42 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; four credits of performance study in a secondary instrument or voice; and nine credits of ensemble or accompanying, with no more than five credits in either area. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 215 History of Jazz (3)

OR MUS 217 Pop/Rock Music for non-majors (3)

OR MUS 240 American Music (3)

MUS 375 Instrument 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 (11 Credits)

Students must earn three 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 (53 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. Degree in Music.

Requirements (45 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 twelve credits of ensemble, eight of which involve large ensembles, two with small ensemble, and two with unrestricted ensembles. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 191 Diction (2)

MUS 377 Choral Conducting (2)

MUS 391 Writing Seminar in Music (1)

MUS 432 Voice Pedagogy (2)

MUS 440 Music Literature: Solo Song (2)

MUS 450 Student Recital (1)

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 (53 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. Degree in Music.

Requirements (45 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; twelve credits of ensemble, eight of which are large ensembles, one with small ensemble, and three with unrestricted ensembles; a one-credit teaching methods or pedagogy course appropriate to the principal instrument; and a two credit music literature course appropriate to the principal instrument. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 215 History of Jazz (3)

OR MUS 217 Pop/Rock Music for non-majors (3)

OR MUS 240 American Music (3)

MUS 375 Instrument Conducting (2)

MUS 391 Writing Seminar in Music (1)

MUS 450 Student Recital (1)

Choose one course from the list:

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)

Restricted Electives (8 Credits)

Students must earn eight credits of music electives none of which can be performance study or ensemble with the principal instrument.

B.S. DEGREE MAJOR IN MUSIC EDUCATION (128 Credits)**STUDENT LEARNING OUTCOMES**

- Demonstrate a sufficient level of technique in their primary performance medium to artistically perform standard undergraduate-level repertoire.
- Understand the common elements and organizational patterns in music to demonstrate knowledge of forms, processes, structure, context, and styles including diverse cultural sources, from historical and theoretical perspectives.
- Show competency in secondary performing areas including piano and conducting.

- Demonstrate the ability to teach in a school music classroom.

OPTION IN INSTRUMENTAL MUSIC EDUCATION (72 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. Degree in Music.

Requirements (36 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 120 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 participate in at least one semester of a choral ensemble.

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 and Recorder for Teaching Music (1)

MUS 333 Teaching General Music K-12 (3)

MUS 335 Teaching School Band and Orchestra (2)

MUS 375 Instrument Conducting (2)

MUS 450 Student Recital (1)

Related Requirements (36 Credits)

Students must meet all teacher licensure requirements for this major.

OPTION IN VOCAL MUSIC EDUCATION (72 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. Degree 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 120 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 ten 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 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 and Recorder for Teaching 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 (36 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. Students studying piano at the 200 level must pass a piano proficiency exam.

MUS 110 Musicianship for Non-Majors (2)
 MUS 111 The Art of Listening (3)
 MUS 240 American 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 217 Pop/Rock Music for Non-Majors (3)
 MUS 316 World Music Survey (3)

MINOR IN MUSIC BUSINESS (18 Credits)

Requirements

MUS 107 Theory and Ear Training I (3)
OR MUS 110 Musicianship for Non-Majors (3)
 MUS 111 The Art of Listening (3)
OR MUS 303 Western Traditions to 1750 (3)
 MUS 166 Record Company Operations (3)
 MUS 266 Legal and Ethical Issues in Music (3)
 MUS 366 Venue Management (3)
 MUS 466 Artist Management and Production (3)

MINOR IN MUSIC TECHNOLOGY (17-18 Credits)

Requirements

MUS 107 Theory and Ear Training I (3)
OR MUS 110 Musicianship for Non-Majors (3)
 MUS 111 The Art of Listening (3)
OR MUS 303 Western Traditions to 1750 (3)
 MUS 184 Introduction to Audio Production (3)
 MUS 281 Studio Production I (2)
 MUS 284 Live Audio Production (2)
 MUS 381 Studio Production II (2)
 MUS 481 Projects in Audio Production (1)
 MUS 484 Projects in Live Sound Reinforcement and Concert Recording (1-2)

Nursing

School of Nursing and Healthcare Leadership
Lommen Hall 213, (218) 477-2693

Chair: Barbara Matthees

Faculty: Jane Bergland, Nandita Bezbaruah, Terry Dobmeier, Helen Harris, Donna Heald, Pam Kirk, Mary Rousslang, Vicki Teske, Tracy Wright.

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 department offers a Bachelor of Science in Nursing (BSN) degree. Students admitted after fall 2009 must have their registered nurse license prior to beginning the BSN completion program (RN-to-BSN). The program is entirely online with clinical experiences in the student's home community as possible.

The nursing department also offers a Master of Science (MS) degree with a major in Nursing and a Doctor of Nursing Practice (DNP) degree. More information is available by calling 218-477-2693 or at: www.mnstate.edu/nursing/.

BSN Completion Track: (120 credits)

This track is designed for currently registered nurses to complete requirements for a bachelor's degree in nursing. All nursing 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 general education requirements will be reviewed by the Records Office advisors.

Admission is competitive and consists of two steps: First, the applicant must be admitted to MSUM. Second, the applicant must apply to the nursing program. The nursing program admission criteria are:

- Minimum cumulative college GPA of 2.75
- Two professional reference forms.
- Current RN license or eligible to take NCLEX examination.
- 21 credits of Liberal Arts and Sciences Curriculum completed or AA degree or completed MN Transfer Curriculum.

The degree requires the successful completion of 120 credits. This includes 40 upper-division credits (at least 30 of these are nursing), completion of the Liberal Arts and Sciences Curriculum (if no AA or MN Transfer Curriculum done), transferred lower division nursing credits, and elective credits. Credit for previous coursework taken at technical or diploma schools may also be given.

STUDENT LEARNING OUTCOMES

At the completion of the baccalaureate curriculum, graduates are expected to:

- Integrate concepts from the arts, humanities and sciences with nursing science as a basis for evidence-based professional nursing practice
- Communicate clearly and effectively.
- Apply critical thinking skills in deliberative decision-making.
- Provide holistic nursing care in increasingly complex situations in diverse settings.
- Provide ethical nursing practice that respects the uniqueness and worth of the individual.
- Design, manage and coordinate nursing care within the context of local, national and international perspectives.
- Demonstrate the knowledge and skills to continue intra and interpersonal role development of the professional nurse.

UPPER LEVEL WRITING REQUIREMENT

NURS 347: Transcultural Nursing and NURS 475L: Nursing Preceptorship

BSN COMPLETION TRACK (120 Credits)

Core 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)

Upper Division Requirements (10 Credits)

Liberal Arts and Sciences Curriculum requirements unless AA degree or MN Transfer Curriculum completed, electives and transfer courses (80 credits).

Operations Management

Technology Department

Hagen Hall 211, (218) 477-2466

Chair: Pam McGee and Scott Seltveit

Program Coordinator: Pam McGee

Operations Management Mission Statement:

Operations Management 2+2 program offers a rigorous, student-centered education for technical students, resulting in fulfilling and life long careers in a broad spectrum of Operations Management roles. The mission of the Operations Management program is three-fold:

- To maintain a nationally accredited operations management program, which will produce graduates who will have the technical, managerial and general knowledge necessary to enter and advance professionally in the industry.
- Provide an environment which encourages students and faculty to engage in professional development, critical thinking, and creative endeavors.
- Promote continuous improvement of teaching, learning and program curriculum.

Operations Management Program Overview

The Operations Management (OM) degree is specifically designed for transfer students who have earned an Associate of Applied Science, Associate of Science, or a Diploma in a field from an accredited institution in a field of study related to Industrial Technology. The technical courses 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 and promotional opportunities.

Students identifying Operation Management as their intended major at MSUM may transfer up to 48 technical credits. A minimum of 30 technical 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 a block credit transfer, recognizes the technical courses as a cohesive set of courses with stated and verified educational outcomes.

Operations Management Career Information

Operations Management (OM) is a professional program that specifically trains graduates to manage, coordinate, and

supervise the operations management process in a variety of industries. Throughout the program, students learn the responsibilities of management, general business, leadership, lean, safety, quality, risk, and production inventory management, allowing them to coordinate and manage people, processes, projects, materials, budgets, schedules, and logistics.

Operations Managers hold a variety of job titles, such as Operations Manager, Technical Sales and Marketing, Quality Assurance Specialists, Design Expert, Information Management, Production Management, Materials Manager, Supply Chain Manager, Purchasing, Logistics, Process Engineer, Manufacturing Engineer, Continuous Improvement Manger, etc. The Operations Management program is offered fully on line, on campus and off campus in the Twin Cities.

Operations Management Program Assessment

The Operations Management (OM) program at MSU Moorhead is accredited by the Association of Technical Management and Applied Engineering (ATMAE), which establishes standards and criteria for excellence in Industrial Technology.

Assessment of the Operations Management program must satisfy two entities. First and foremost, assessment is a requirement of the ATMAE and the OM program must meet or exceed those standards. ATMAE requires a comprehensive assessment plan including program outcomes and student performance outcomes, which are outlined below. In addition, Minnesota State University Moorhead (MSUM) requires that all degree-granting programs have a student outcomes assessment plan. This assessment plan is designed to satisfy both entities. The OM program mission statement, goals, objectives, and performance measures are detailed on Operations Management website (www.mnstate.edu/om/).

STUDENT LEARNING OUTCOMES

Student Learning Outcomes

1. **Communication Skills:** The graduate will be able to apply oral, written, graphic, and listening skills and be able to contribute and facilitate team efforts.
2. **Information Technology Skills:** The graduate will be able to demonstrate appropriate computer skills, through use of word processing, databases, and spreadsheets applications and electronic data searches.
3. **Scientific and Technical Skills:** The graduate will be able to apply mathematical and physical principles to business and industrial applications, and implement efficient scientific and technological solutions to industrial problems individually and in a team setting.
4. **Technical Area Competence:** The graduate will be assumed to have gained this competency at their transferring institution by graduating from an accredited institution in an articulated technical oriented program

5. **Economics and Cost Estimating:** The graduate will be able to demonstrate skills for determining the cost advantage of different processes and performing cost estimates. The student will also understand and be able to document the costs and benefits associated with production concepts such as Just-In-Time and Total Quality Management.
6. **Total Quality Management:** The graduate 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.
7. **Production and Inventory Management:** The graduate 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.
8. **Project Management and Leadership:** The graduate will be able to apply skills of organizing and managing resources to deliver the a temporary or one-time endeavor project with a defined scope, time and cost constraints. The graduate will also understand the changing workplace structure and be a positive contributor.
9. **Positive Personal Habits:** The graduate will be able to apply appropriate management skills, demonstrate ethical actions and conduct, be aware of the personal value for involvement and contribution to the community and knowledge of industry expectations.
10. **Global and Cultural Awareness:** The graduate will exhibit an understanding and acceptance of human and cultural diversity, and a concern for ethical treatment of all persons. Additionally, graduates will have a realistic understanding of the internationalization of business and industry.

Internship Requirement

Students will be required to fulfill an internship as part of their graduation requirements. The student will participate in various activities with Career Services to ensure they have a proper resume, cover letter and job search strategy. The student is responsible for finding their own internship. There are three types of internships that qualify: 1) If the student is gainfully employed in an Industrial Technology job setting, they can work with their manager and take their internship at their current place of employment. The manager, faculty advisor and student will outline the specific objectives of the internship to ensure there is a proper amount of Operations Management related objectives. 2) The student may attend various job fairs, work with industries interested in Operations Management interns, and/or search companies of interest and find an internship position. Once the student has interviewed and been offered a position as intern, the University paperwork will coincide with the requirements of the

employer. 3) The student may launch a full scale job search in the Operations Management field and treat their first Operations Management position as their internship. All types of internships must meet the program and university requirements.

UPPER LEVEL WRITING REQUIREMENT

Transfer students are required to take two writing intensive courses:

1. TECH 385 Process Leadership as the designated writing intensive requirement by the department.
2. ENGL 387 Technical Report Writing as the designated 200-level or above writing intensive course.

B. S. DEGREE IN OPERATIONS MANAGEMENT (120 Credits)

Core Requirements (35 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 3 credit internship.

- ENGL 387 Technical Report Writing (4)
- 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 Technologists (4)
- TECH 428 Project Management (3)
- TECH 469 Student Internship (3-12)
- TECH 482 Quality Planning and Implementation (3)
- TECH 485 Production and Inventory Management (3)
- TECH 493 Occupational Safety and Health (3)

Related Requirements (19-20 Credits)

Students must complete the requirements listed below, but only need to select two science courses (one course must include a lab and the other must include a lab like experience), one course must be from Chemistry and the other from Physics. All related requirements fulfill the Liberal Arts and Sciences Curriculum, except ACCT 230.

- ACCT 230 Principles of Accounting I (3)
- ECON 202 Principles of Economics I: Micro (3)
- MATH 127 College Algebra (3)
- MATH 234 Introduction to Probability and Statistics (3)
- CHEM 102 Environmental Chemistry (3)
- CHEM 105 Chemistry in Everyday Life (3)
- CHEM 110 Fundamentals of Chemistry (3)
- AND CHEM 110L Fundamentals of Chemistry Lab (1)
- CHEM 150 General Chemistry I (3)
- AND CHEM 150L General Chemistry Lab I (1)
- CHEM 304 The Environment and You (3)
- PHYS 160 College Physics I (3)
- AND PHYS 160L College Physics I Lab (1)

Paralegal

Paralegal Department

Center for Business 115, (218) 477-5806 or 477-4646

Chair: Deborah Schaefer Kukowski

Faculty: Tracy Gompf, Judy Streich

The Paralegal major is a professional four-year Bachelor of Science degree. The major 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 three 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

- Student knows substantive and procedural law applicable to the course.
- Student can identify legal issues.
- Student can analyze legal issues.
- Student can research the law.
- Student can draft legal memoranda and/or trial or appellate court briefs.
- Student can draft documents and pleadings.
- Student communicates effectively orally.
- Student communicates effectively in writing.
- Student understands the rules of legal ethics.
- Student can obtain information by interviewing and investigation.
- Student understands roles and relationships within a legal services delivery team.

UPPER LEVEL WRITING REQUIREMENT

PARA 425: Advanced Legal Research and Writing

B.S. DEGREE IN PARALEGAL (120 Credits)

Core Requirements (37-45 Credits)

Majors must complete the core requirements and at least one area of emphasis. This requires 12 credits from: Commercial Law, Elder Law and Probate, or Litigation. 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 230 Principles of Accounting I (3)

ACCT 304 Legal Environment of Business (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 340 Evidence (3)

PARA 375 Legal Ethics (3)

PARA 425 Advanced Legal Research and Writing (3)

PARA 469 Internship (1-12)

EMPHASIS IN COMMERCIAL LAW (15 Credits)

In addition to the courses listed below, students must complete the 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 306 Contracts and Business Entities (3)

ACCT 307 Commercial Transactions, Property and Special Topics (3)

PARA 321 Employment Law (3)

PARA 331 Debtor-Creditor and Bankruptcy Law (3)

EMPHASIS IN ELDER LAW AND PROBATE (15 Credits)

In addition to the courses listed below, students must complete the 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)

EMPHASIS IN LITIGATION (15 Credits)

In addition to the courses listed below, students must complete the 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 346 Public Benefits (3)

PARA 410 Civil Procedure II (3)

PARA 420 Criminal Litigation (3)

PARA 435 Personal Injury (3)

Philosophy

Philosophy Department

Bridges Hall 359, (218) 477-2478

Chair: Theodore Gracyk

Faculty: Marilea Bramer, Randy Cagle, Konrad Czynski, 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

- Philosophy majors should be able to read and understand standard philosophical texts.
- Philosophy majors should be able to write philosophical essays.
- Philosophy majors should be able to engage in philosophical discussion and make oral presentations of their research.
- Philosophy majors should know the views of major philosophers, know the primary issues in the major subject areas, and know both contemporary and non-mainstream approaches to philosophy.

- Philosophy majors should be able to evaluate and construct philosophical arguments.
- Philosophy majors should be able to engage in original philosophical research.

UPPER LEVEL WRITING REQUIREMENT

PHIL 300: History of Ethics

B.A. DEGREE IN PHILOSOPHY (120 Credits)

Requirements (16 Credits)

PHIL 300 History of Ethics (3)

PHIL 303 Classical Philosophy (3)

PHIL 305 Modern Philosophy: 17th Century (3)

PHIL 306 Modern Philosophy: 18th Century (3)

PHIL 340 Symbolic Logic (3)

PHIL 498 Senior Project (1)

Restricted Electives (6 Credits)

Students must take one course from a grouping of courses with a historical emphasis (PHIL 304, 307, 309, 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 309 Continental 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 215 Contemporary Moral Issues (3)

OR PHIL 300 History of Ethics (3)

Restricted Electives (3 Credits)

At least three 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 (3)
PHIL 304 Medieval Philosophy (3)
PHIL 305 Modern Philosophy: 17th Century (3)
PHIL 306 Modern Philosophy: 18th Century (3)
PHIL 307 19th Century Philosophy (3)
PHIL 355 Existentialism (3)
PHIL 490 Topics in Philosophy (1-4)
PHIL 492 Major Philosophers (1-3)

Electives (11 Credits)

Eleven 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

Alex Nemzek Hall 103, (218) 477-2445

Chair: Wendy Frappier

Faculty: James Gemar, Ralph Micheli, Randall Smith

MSUM's Health and Physical Education (HPE) Department offers programs for students who are interested in administrative positions in 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. 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 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

PE 310: Sport and Play in the U.S.

B.A. DEGREE IN PHYSICAL EDUCATION (128 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 in Physical Education requirements except that students do not have to complete the Teacher Licensure requirements.

B.S. DEGREE IN PHYSICAL EDUCATION – TEACHING (128 Credits)

Requirements (46 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-six credits to the major.

HLTH 110 Personal Health and Wellness (3)

HLTH 125 First Aid and CPR (2)

PE 160 Swimming I (1)

OR PE 161 Swimming II (1)

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 420 Biomechanics (3)

PE 421 Physiology of Exercise (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)

PE 474 Tests and Measurements in Physical Education (3)

Electives (3 Credits)

Students must earn one credit in courses that focus on physical fitness, one credit in courses that focus on team sports, and one credit 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 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, American College of Sports Medicine, and National Academy of Sport Medicine.

STUDENT LEARNING OUTCOMES

- Demonstrate knowledge in integrated training, fitness assessment concepts, and program design concepts as defined by the national Academy of Sports Medicine, American College of Sports Medicine and National Strength and Conditioning Association.
- Demonstrate the knowledge, skills and abilities to assess the health status of individuals and the ability to conduct exercise testing and interpretation as identified by NASM, ACSM and NACA.
- Apply basic competencies required of a fitness professional in a sports medicine, cardiac rehabilitation, fitness center or sports training facility.

UPPER LEVEL WRITING REQUIREMENT

PE 310: Sport and Play in the U.S.

B.S. DEGREE IN EXERCISE SCIENCE (120 Credits)

Core Requirements (38-48 Credits)

AT 220 Care and Prevention of Injuries & Illnesses (3)
 HLTH 110 Personal Health and Wellness (3)
 HLTH 125 First Aid and CPR (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)

Electives (18 Credits)

Elective course selections should be made in close consultation with your academic advisor, depending upon the career goals of the student.

Recommended for students interested in working in a fitness center:

ACCT 230 Principles of Accounting I (3)
 COMH 200 Introduction to Health Promotion and Public Health (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 202 Strength and Conditioning Exercise Techniques (1)
 PE 302 Strength and Conditioning Program Design (2)
 PE 364 Group Exercise Instruction (3)
 PE 460 Principles of Coaching (3)
 PE 474 Tests and Measurements in Physical Education (3)

Recommended for students interested in graduate school (exercise physiology):

BIOL 111 Cell Biology (4)
 BIOL 323 Human Anatomy (4)
 BIOL 349 Human Physiology (4)
 CHEM 110 Fundamentals of Chemistry (3)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 MATH 232 Applied Statistics (3)
 PHYS 160 College Physics I (4)

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)

DEVELOPMENTAL ADAPTED PHYSICAL EDUCATION LICENSURE (24 Credits)

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. Students will take four 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 (1-12)
- SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
- SPED 455 Characteristics of Students with Learning and Behavior Problems (4)
- SPED 471 Behavior and Environment Management (3)

MINOR IN COACHING (20 Credits)

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. 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 367-379).

- AT 220 Care and Prevention of Injuries & Illnesses (3)
- HLTH 125 First Aid and CPR (2)
- PE 350 Mechanical Principles of Sport (3)
 - OR** PE 420 Biomechanics (3)
- PE 351 Physiology of Sport (2)
 - OR** PE 421 Physiology of Exercise (3)
- PE 460 Principles of Coaching (3)
- PE 461 Coaching Practicum (1)
- PE 367 Coaching Soccer (3)
 - OR** 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)

MINOR IN STRENGTH AND CONDITIONING (21 Credits)

- HLTH 125 First Aid/CPR (2)
- HLTH 305 Introduction to Nutrition (3)
- PE 202 Strength and Conditioning Exercise Techniques (1)
- PE 302 Strength and Conditioning Program Design (2)
- PE 320 Anatomy Kinesiology (3)
- PE 365 Health/Fitness Instructor (3)
- PE 402 Strength and Conditioning Practicum (1)
- PE 420 Biomechanics (3)
- PE 421 Physiology of Exercise (3)

Physical Science (Teaching)

See Chemistry or Physics

Physics and Astronomy

Physics and Astronomy Department

Hagen Hall 307, (218) 477-2141

Chair: Matthew Craig

Faculty: Juan Cabanela, Dennis Jacobs, Richard Lahti, Stephen Lindaas, Ananda Shastri, Linda Winkler

The Department of Physics and Astronomy offers four degrees: 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 Astronomy, Emphasis in Business, or an Emphasis in Medical Physics. In addition, the department supports a minor in Physics, a minor in Medical 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 Arts and Sciences Curriculum 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 Astronomy

This program requires completion of a minimum of 120 credits and prepares the student for graduate work in astronomy. In addition to the core physics courses the students takes advanced astronomy courses in place of physics.

Emphasis in Business

This program requires completion of a minimum of 120 credits and prepares the physics student for a career in industry. In addition to physics courses, the student takes additional courses in finance, management, and marketing.

Emphasis in Medical Physics

This program requires completion of a minimum of 120 credits and is a program for students interested in medical physics, a branch of applied physics that utilizes physics concepts and methods in the treatment and diagnosis of human disease. A medical physics emphasis also serves students interested in biophysics and the technological aspects of biotechnology.

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.

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 Medical Physics

The Minor in Medical Physics is a program designed for students in biosciences and chemistry related fields, who are looking for additional expertise in a branch of applied physics that utilizes physics concepts and methods in the treatment and diagnosis of human disease.

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.
- Conduct independent research.

UPPER LEVEL WRITING REQUIREMENT

PHYS 305: Experimental Physics and TECH 387: Technical Report Writing.

B.S. DEGREE IN PHYSICS (120 Credits)**Core Requirements (39 Credits)**

Students may substitute PHYS 160 and 161 for PHYS 200 and 201.

PHYS 188 Introduction to 20th Century Physics (3)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 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, or enough credits to bring the total to 66.

EMPHASIS IN ASTRONOMY (38 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.S. in Physics.

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 Internship (1-12)

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 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 (3)
 PHYS 200L General Physics I Lab (1)
 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 Business Intelligence Using Data Mining (3)
 MGMT 440 Human Resource Management (3)
 MGMT 451 Organizational Behavior (3)

MGMT 469 Student Internship (2-8)
 MKTG 311 Marketing Management (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 MEDICAL PHYSICS (33 Credits)

In addition to the courses listed below students must complete the core requirements under the B.S. in Physics, except PHYS 430 which is recommended but not required.

Requirements (19 Credits)

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 (14 Credits)

CHEM 150 General Chemistry I (3)
 CHEM 150L General Chemistry Laboratory I (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Laboratory (1)
 PHYS 312 Analog Electronics (3)
 PHYS 318 Biophysics and Medical Imaging (3)

Recommended

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 BIOL 323 Human Anatomy (4)
 BIOL 349 Human Physiology (4)
 CHEM 350 Survey of Organic Chemistry: Part I (3)
 CHEM 360 Survey of Organic Chemistry: Part II (3)
 PHYS 430 Quantum Mechanics (3)

B.S. DEGREE IN PHYSICS EDUCATION (128 Credits)

Core Requirements (26 Credits)

In addition to the Physics requirements, students must also complete the thirty-six credits of teacher education requirements. Students may substitute PHYS 160-161 for

PHYS 200-201.
 PHYS 188 Introduction to 20th Century Physics (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 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 150 General Chemistry I (3)
 CHEM 150L General Chemistry Lab (1)
 CHEM 210 General Chemistry II (3)
 CHEM 210L General Chemistry II Lab (1)
 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)

MINOR IN PHYSICS (24 Credits)

Requirements (19 Credits)

Students may substitute PHYS 160-161 for PHYS 200-201.
 PHYS 188 Introduction to 20th Century Physics (3)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 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 MEDICAL PHYSICS (25 Credits)

Requirements (19 Credits)

PHYS 188 Introduction to 20th Century Physics (3)
 PHYS 200 General Physics I (3)
 PHYS 200L General Physics I Lab (1)
 PHYS 201 General Physics II (4)
 PHYS 305 Experimental Physics I (2)

PHYS 306 Experimental Physics II (2)
PHYS 315 Physics Seminar (1)
PHYS 322 Elementary Modern Physics (3)

Electives (6 Credits)

PHYS 312 Analog Electronics (3)
PHYS 318 Biophysics and Medical Imaging (3)

Recommended

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 323 Human Anatomy (4)
BIOL 349 Human Physiology (4)
CHEM 150 General Chemistry I (3)
CHEM 150L General Chemistry Laboratory I (1)
CHEM 210 General Chemistry II (3)
CHEM 210L General Chemistry II Laboratory (1)
ENGL 387 Technical Report Writing (4)

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 (3)
PHYS 160L Physics 160 Laboratory (1)
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

MacLean Hall 380, (218) 477-2942

Chair: Paul Kramer

Faculty: Philip Baumann, Andrew Conteh, Barbara Headrick, Margaret Sankey

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

American

- Students should have a basic understanding of the institutions, influences and processes that make up American government and politics.
- Students should have a basic understanding of the vital role citizen participation plays in American politics.
- Student should have a basic understanding of the influence of the electoral system on American institutions and policies.

Public Administration/Public Policy

- Students should have a basic understanding of influences of bureaucrats and bureaucratic institutions in American politics.
- Students should have a basic understanding of the institutions, influences, and processes that affect policymaking in the United States.
- Students should have a basic understanding of the interaction between institutional behavior and policy decisions.

Public Law

- Students should have a basic understanding of the world's major legal families, institutions, theories, and philosophies.
- Students should acquire knowledge of the Anglo-American legal system, including specific characteristics of private law, public law, and criminal law.
- Students should have a basic understanding of roles of the various legal professionals and the effect of legal ethics on the practice of law.

International Relations/Comparative Politics

- Students should have a basic knowledge of the processes and principles guiding relations between international actors.
- Students should have a basic knowledge of the interaction between global economics and international and domestic politics.
- Students should have a basic understanding of politics and political systems other than those of the United States.

Theory and Methodology

- Students should have a basic understanding of the normative concepts and arguments that have been important in the study and practice of politics.
- Students can understand and apply the principles of research design.
- Students can use basic statistical methods for data analysis.

Skills

- Students are capable of using the library and other resources.
- Students demonstrate technical writing skills applying the APSA format.
- Students can write engagingly and interestingly.
- Students can make appropriate oral presentations.

Elective -- Student should have a more sophisticated understanding of knowledge and research in political science in at least one sub-field of the discipline.

American Politics

- Students should be able to use their understanding of principles, theories and practices of institutions to analyze how policy is made in the United States.
- Students should be able to analyze influences from political parties and interest groups on U.S. electoral and political systems.
- Students should be able to apply knowledge of government institutions and the behavior of political actors to analyze current U.S. politics and policies.

Public Law

- Students should have a sophisticated understanding of U.S. criminal law and procedure, including Constitutional protections for the criminally accused.
- Students should have a sophisticated understanding of U.S. Constitutional law, including the development of the federal commerce power, the history of federalism, and current trends in civil rights and liberties.

International Relations/Comparative Politics

- Students should have a knowledge of principles and theories of international relations.
- Students should have a knowledge of principles and theories of comparative politics.
- Students should be able to analyze evidence in international relations and comparative politics
- Students should be able to apply knowledge in international relations and comparative politics to current world problems.

Theory and Methodology

- Student should have a sophisticated understanding of the principles and challenges of establishing valid scientific conclusions.
- Students should have a sophisticated understanding of the major philosophical and evaluative traditions of human political experience.
- Students should demonstrate the ability to apply the above two bullets in their roles as citizens and students of politics.

UPPER LEVEL WRITING REQUIREMENT

ENGL 387: Technical Report Writing

B.A. DEGREE IN POLITICAL SCIENCE (120Credits)***Core Requirements (28 Credits)***

ENGL 387 Technical Report Writing (4)
 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 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)

Electives (21 Credits)

Students must take sufficient electives in Political Science courses to bring the total Political Science credits to 45.

EMPHASIS IN STRATEGIC STUDIES (21 Credits)

In addition to the courses listed below, students must complete the core requirements under the B.A. Degree in Political Science.

Requirements (6 Credits)

POL 150 Comparative Political Traditions (3)
 POL 151 Contemporary Comparative Politics (3)

Restricted Electives (15 Credits)

Students must complete 15 credits from the following list of courses.

POL 266 International Terrorism (3)
 POL 314 War and the Modern World (3)
 POL 315 Political Thought (3)
 POL 317 Strategic Games and Game Theory (3)
 POL 349 Great Power Politics (3)
 POL 354 U.S. Defense Policy (3)
 POL 356 Comparative Government of Russia/Eastern Europe (3)
 POL 360 American Foreign Policy (3)
 POL 363 Public International Law (3)
 POL366 International Conflict Resolution (3)
 POL 370 Understanding International Security (3)
 POL 380 Politics of Great Britain (3)

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 Hall 360, (218) 477-2802

Chair: Magdalene Chalikia

Faculty: Rochelle Bergstrom, Derick Dalhouse, Ernest W. Hallford, Richard Kolotkin, Christine Malone, Olivia Melroe, Elizabeth Nawrot, Gary Nickell, Margaret Potter, 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. MATH 127 College Algebra or an equivalent for LASC Goal 4 is recommended prior to taking PSY 231.

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., 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

PSY: 330: Experimental Psychology

B.A. DEGREE IN PSYCHOLOGY (120 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 Hall 359

Chair: Theodore Gracyk

Program Coordinator: Phil Mouch

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)

HIST 317 Medieval Europe (4)

HUM 320 Humanities East and West (3)

PHIL 304 Medieval Philosophy (3)

School of Business

See Business

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

School of Teaching and Learning
Lommen Hall 221B, (218) 477-2560

Chair: Erin Gillett and Ok-Hee Lee

Faculty: Steven Grineski

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;
- LASC GPA of 2.25;
- cumulative GPA of 2.5;
- take the Minnesota Teacher Licensure Exam (MTLE): Basic Skills Tests;
- 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 Minnesota Teacher Licensure Exam (MTLE): Basic Skills Tests;
- pass the MTLE Licensure Exam;
- 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 general education/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.

SECONDARY EDUCATION TEACHING LICENSURE (PreK-12, K-12, 5-8, 5-12, and 9-12)

Core Requirements (36 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 (3)
 ED 294 Educational Psychology (3)
 ED 310 Social Foundations of Education (3)
 ED 398 Field Experience in Secondary Education (2)
 ED 443S Classroom Management/Consultation (3)
 ED 448 Reading Study Skills in the Content Areas (3)
 ED 461S Student Teaching: Secondary (10)
OR ED 460S Student Teaching: Secondary (5)
AND EECE 480E Student Teaching: Elementary (5)
 SPED 225 Individuals with Exceptionalities (3)

Social Studies

History Department

MacLean Hall 374, (218) 477-2812

Chair: Annette Morrow

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:

1. **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.
2. **Emphasis.** Majors must choose one discipline as their emphasis. Requirements for each discipline are listed below.
3. **Secondary emphasis.** Majors must choose one discipline as their secondary emphasis. Requirements for each discipline are listed below.
4. **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

ANTH 445: Seminar in Anthropology for the B.S. in Social Studies Primary or Secondary Emphasis in Anthropology.

ECON 498: Economics Senior Seminar for the B.S. in Social Studies Primary or Secondary Emphasis in Economics.
 GEOS 320: Economic Geography for the B.S. in Social Studies Primary or Secondary Emphasis in Geography.
 HIST 401: Senior Seminar for the B.S. in Social Studies Primary or Secondary Emphasis in History.
 ENGL 387: Technical Report Writing for the B.S. in Social Studies Primary or Secondary Emphasis in Political Science.
 PSYC 330: Experimental Psychology for the B.S. in Social Studies Primary or Secondary Emphasis in Psychology.
 SOC 351: Quantitative Methods or SOC 352: Qualitative Methods for the B.S. in Social Studies Primary or Secondary Emphasis in Sociology.
 AMCS 498: Capstone Seminar in American Multicultural Studies for the B.S. in Social Studies Secondary Emphasis in American Multicultural Studies.

B.S. DEGREE IN SOCIAL STUDIES (128 Credits)

Core Requirements (27 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-six 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 Introductory Physical Geography (3)
 GEOS 480 Senior Seminar (1)

Additionally, students must complete six credits from the following courses:

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 (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 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 335 Environmental Geography and Conservation (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 120 Social Psychology (3)
 SOC 210 Social Problems (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 (3)

Restricted Electives (9 Credits)

Select one course from each of the 3 cultural emphases: African American, American Indian and Chicano/Latino.

African American

AMCS 209 African American Humanities I: Roots (3)
 AMCS 210 African American Humanities II: 1865-Present (3)
 AMCS 211 Contemporary African Americans (3)

American Indian

AMCS 102 Contemporary American Indians (3)
 AMCS 202 Traditional American Indian Cultures (3)
 AMCS 225 Ojibwe Culture (3)
 AMCS 270 American Indian Education (3)
 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 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 335 Environmental Geography and Conservation (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

Library Porch, (218) 477-2632

Chair: Jeremy Carney

Faculty: Tracy Clark, Shawn Ginther

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 generalist 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 Arts and Sciences Curriculum requirement. However, social work majors who are transfer students entering under the Liberal Arts and Sciences Curriculum requirements must have the equivalent of one course from Area 7, Human Diversity and one course from Area 8, Global Perspective.

Admission to the Major

Students who wish to major in social work must complete a formal application, approved by the faculty advisor and submitted by the deadline 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 in all required social work courses and related requirements.
- The student must have an overall 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 their choice of major; and

- 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

- Identify as a professional social worker and conduct oneself accordingly.
- Apply social work ethical principles to guide professional practice.
- Apply critical thinking to inform and communicate professional judgments.
- Engage diversity and differences in practice.
- Advance human rights and social and economic justice.
- Apply knowledge of human behavior and the social environment.
- Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
- Respond to contexts that shape practice.
- Engage, assess, intervene and evaluate with individuals, families, groups, organizations, and communities.

UPPER LEVEL WRITING REQUIREMENT

SW 400: Research Methods and SW 460: Social Policy and Policy Practice.

B.S.W. DEGREE IN SOCIAL WORK (120 Credits)

Requirements (39 Credits)

Students must obtain a grade of "C-" or higher in all courses listed.

- SW 250 Introduction to Social Welfare and Social Work (3)
- SW 330 Human Behavior and the Social Environment (3)
- SW 400 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 and Policy Practice (3)
- SW 469 Internship (12)
- SW 470 Senior Seminar (3)

Related Requirements (28 Credits)

Students must obtain a grade of "C-" or higher in all related requirements.

- BIOL 104 Human Biology (3)
- ECON 100 The American Economy (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 120 Social Psychology (3)

SOC 350 Methods and Statistics for Social Research (4)

Restricted Electives (3 Credits)

In addition to the required courses, students must take one restricted elective at the 300 or 400 level chosen from the list below. Students must obtain a grade of “C-” or higher in their restricted elective.

SW 308 Social Gerontology (3)

SW 402 Child Welfare Services (3)

SW 410 Gerontology: Policy and Practice (4)

SW 411 Chemical Dependency (3)

SW 431 Readings in Social Welfare (3)

SW 490 Topics in Social Work (1-3)

SW 497 Independent Study (2-3)

SW 499 Social Work Workshops (1-3)

Electives (3 Credits)

Students must take one additional elective. Students may take an additional restricted elective, an elective chosen from the list below or a different elective approved by the student’s advisor. Students must obtain a grade of “C-” or higher in their elective.

AMCS 372 Dynamics of Prejudice and Oppression (4)

BIOL 300 Biology of Women (3)

ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)

POL 340 Public Administration (3)

PSY 463 Abnormal Psychology (3)

SOC 219 Sociology of Sexual Behavior (3)

SOC 310 Dominant-Subordinate Group Relations (3)

SOC 333 Sociology of Gender (3)

SOC 334 Lesbian, Gay, Bisexual, Transgender, and Queer Issues (3)

SPED 225 Individuals with Exceptionalities (3)

Sociology

Sociology and Criminal Justice Department Lommen Hall 212, (218) 477-2045

Chair: Deborah White

Faculty: Karen Branden, Jan Fiola, Geraldine Hendrix-Sloan, Michael Hughey, Susan Humphers-Ginther, Joel Powell-Dahlquist, Denis Stead, Lee Vigilant

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

- Exhibit and understanding of the content of the field, including theory and methods.
- Exhibit an ability to apply the concepts of the field to social issues.
- Exhibit an ability to think critically.
- Exhibit an understanding of social research, including the ability to apply research findings to social issues.
- Exhibit an ability to organize knowledge; ideas, evidence, information, and argument.
- Exhibit an ability to use library, internet, and community resources.
- Exhibit an ability to communicate in writing.
- Exhibit an ability to communicate orally.

UPPER LEVEL WRITING REQUIREMENT

SOC 351: Quantitative Methods

OR SOC 352: Qualitative Methods

B.A. DEGREE IN SOCIOLOGY (120 Credits)

Requirements (28 Credits)

SOC 110 Introduction to Sociology (3)

SOC 120 Social Psychology (3)

SOC 210 Social Problems (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

School of Teaching and Learning
Lommen Hall 216, (218) 477-2216

Chair: Erin Gillett and Ok-Hee Lee

Faculty: Deanne Borgeson, Camille Brandt, Ann Goldade, Sue Severson, Steven Street

The mission of the MSUM Special Education program is to prepare professionals who empower individuals to maximize their self-reliance, their accomplishments and their quality of life. The Special Education program prepares educators skilled in assessment and instruction who understand and respect the individual differences of diverse learners.

MSUM is unique in that it offers undergraduate programming in the four licensure areas of Early Childhood Special Education (ECSE), Developmental Disabilities (DD), Specific Learning Disabilities (SLD), Emotional/Behavioral Disorders (EBD) and graduate work leading to licensure in Physical/Health Disabilities (P/HD) and Early Childhood Special Education (ECSE).

Special Education Admission Requirements

To be admitted to the Special Education licensure program students must have:

- Completed application to Teacher Education (SARTE, see Teacher Education)
- GPA minimum of 2.75 overall and 2.25 in LASC

Licensure in Special Education

To be awarded a license in Special Education, all students must complete at least one licensure area, as a teacher of emotional/behavioral disorders (E/BD), developmental disabilities (DD), or specific learning disabilities (SLD). A student may meet the requirements for multiple licensures. Students with a previous degree in education may add ECSE and PH/D at the graduate level.

To complete licensure in Special Education, all students must complete a student teaching experience as defined by the Minnesota State Board of Teaching ((BOT). Students receiving multiple licensures, either across general and special education or within special education, will complete field experiences in each licensure area.

All Special Education licensure candidates must also complete a degree in general education (e.g. Elementary Inclusive Education, Secondary Education or Early Childhood Education).

Policy for continuing enrollment in the special education licensure program

Completion of SARTE is required before students can enroll in 300 and 400 level education courses. Students need to

continue to meet SARTE retention points. Passing the MTLE is mandatory before students will receive Minnesota licensure.

All applicants for a first time Minnesota special education teaching license must complete the following teacher licensure examinations before being granted a special education license in addition to passing the MTLE Basic Skills Exams.

- Special Education content
- Tests specific to general and special education licenses.

All student teaching or practica in special education require a minimum GPA of 2.75 and a "C" or better for all courses required for licensure.

STUDENT LEARNING OUTCOMES

Special Education teacher licensure 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 the 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 including assistive technology and universal design in instruction.

UPPER LEVEL WRITING REQUIREMENT

SPED 494: Legal and Social Foundations

B.S. DEGREE IN SPECIAL EDUCATION (128 Credits)

This degree is only available to students in the Twin Cities cohorts. On-campus students can earn Minnesota licensure to teach in Special Education through the B.S. in Elementary Inclusive Education.

Core Requirements (18 Credits)

This Teacher Licensure core is required of all students majoring in one of the Special Education licensure areas: DD, E/BD OR SLD.

- ED 205 Introduction to Education (3)
- ED 294 Educational Psychology (3)
- ED 310 Social Foundations of Education (3)
- EECE 230 Child Development for Teachers (3)
- OR** PSY 202 Developmental Psychology (3)
- SPED 225 Individuals with Exceptionalities (3)
- STL 291 Early Literacy (3)

Requirements (9 Credits)

These courses are required of all students majoring in one of the Special Education licensure areas: DD, E/BD OR SLD.

- SPED 443 Consultation and Collaboration in Special Education and Human Services (3)

SPED 471 Behavior and Environment Management (3)
 SPED 494 Legal/Social Foundations of Special Education (3)

Related Requirements (24 Credits)

These courses are required of all students majoring in one of the Special Education licensure areas: DD, E/BD OR SLD.

AMCS 233 Education and Multicultural America (3)
 BIOL 370 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)
 PSYC 113 General Psychology (3)

EMOTIONAL/BEHAVIOR DISORDERS (E/BD) OPTION (42 Credits)

In addition to the courses listed below, students must complete the courses listed under core requirements, requirements, and related requirements under the B.S. Degree in Special Education.

Requirements (32 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 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)

DEVELOPMENTAL DISABILITIES (DD) OPTION (48 Credits)

In addition to the courses listed below, 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 Secondary Services & 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)

SPECIFIC LEARNING DISABILITIES (SLD) OPTION (46 Credits)

In addition to the courses listed below, students must complete the courses listed under core requirements, requirements, and related requirements under the B.S. Degree in Special Education.

Requirements (36 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: Specific Learning Disabilities (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 Secondary Services & Transitional Planning (4)
 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)

MINOR IN SPECIAL EDUCATION (18 Credits)

Requirements (9 Credits)

SPED 225 Individuals with Exceptionalities (3)
 SPED 471 Behavior and Environment Management (3)
 SPED 494 Legal/Social Foundations of Special Education (3)

Electives (9 Credits)

Choose three courses from the following list:

- EECE 220 Foundations of Early Childhood & Early Childhood Special Education (3)
- SPED 413 Instructional Strategies (3)
- SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
- SPED 426 Infant Strategies (3)
- SPED 427 Instructional Strategies: Preschool (3)
- SPED 431 Survey of Autism Spectrum Disorders (2)
- SPED 445 Remedial and Corrective Reading (3)
- SPED 455 Characteristics of Students with Learning and Behavior Problems (4)
- SPED 463 Assessment Strategies (3)
- SPED 470 Secondary Services & Transitional Planning (3)

Speech/Language/Hearing Sciences

Speech/Language/Hearing Sciences Department

Murray Commons (218) 477-2286

Chair: Bruce Hanson

Faculty and Clinical Staff: Richard Adler, Mary Drake, Nancy Paul, Vicki Riedinger, Kristi 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 may assist 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 the master's degree is a nationwide requirement. A professional doctorate is required to practice as an audiologist. 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 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 3.25,
- no outstanding grades of incomplete,
- supervised clinical observations
- 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 provide:

- Evidence of acquisition of fundamental scientific information describing the bases, nature, development and use of speech, language and hearing and total communication processes.
- Evidence of ability to synthesize and evaluate specialized information describing the nature, etiology, assessment and management of speech, language, and hearing disorders, adjusted for client characteristics, at student's level of experience, i.e. "Entry."
- Evidence of interpersonal/ professional ethics and behavior.
- Evidence of writing ability; clinical and academic.
- Evidence of oral presentation skills.
- Evidence of foundation skills necessary to conduct, convey, (evaluate) research findings.
- Evidence of Students' perception of program competency for fundamental professional preparation, and acceptance into a graduate program.

UPPER LEVEL WRITING REQUIREMENT

ENGL 387: Technical Writing Report

B.S. DEGREE IN SPEECH/LANGUAGE/HEARING SCIENCES (120 Credits)

Requirements (50 Credits)

- SLHS 101 Survey of Speech-Language-Hearing Disorders (3)
- SLHS 201 Linguistic Phonetics (3)
- SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
- SLHS 204 Language Development (4)
- SLHS 273 Hearing/Vestibular Disorders & Assessment (4)
- SLHS 321 Articulation and Phonological Disorders (3)
- SLHS 322 Language Disorders in Children (3)
- SLHS 343 Clinical Procedures (3)
- SLHS 347 Augmentative and Alternative Communication and Literacy Acquisition (3)
- SLHS 402 Neuroanatomy/Physiology of Communication and Swallowing (3)
- SLHS 421 Speech Science and Instrumentation (3)
- SLHS 424 Childhood Stuttering (2)
- SLHS 446 Clinical Experience (3)
- SLHS 448 Professional Issues and Clinical Practice

Management (3)
 SLHS 473 Rehabilitation Audiology (4)
 SLHS 491 Research Applications in SLHS (3)

Related Requirements (7 Credits)

ENGL 387 Technical Report Writing (4)
 MATH 232 Applied Statistics (3)

EMPHASIS IN PRE-AUDIOLOGY (61 Credits)

Requirements (45 Credits)

SLHS 101 Survey of Speech-Language-Hearing Disorders (3)
 SLHS 201 Linguistic Phonetics (3)
 SLHS 202 Anatomy & Physiology Normal Speech and Hearing (3)
 SLHS 204 Language Development (4)
 SLHS 273 Hearing/Vestibular Disorders and Assessment (4)
 SLHS 301 American Sign Language and Deaf Culture I (3)
 SLHS 302 American Sign Language and Deaf Culture II (3)
 SLHS 321 Articulation and Phonological Disorders (3)
 SLHS 322 Language Disorders in Children (3)
 SLHS 343 Clinical Procedures (3)
 SLHS 402 Neuroanatomy & Physiology of Communication and Swallowing (3)
 SLHS 446 Clinical Experience (3)
 SLHS 473 Rehabilitation Audiology (4)
 SLHS 491 Research Application in SLHS (3)

Related Requirements (10 Credits)

ENGL 387 Technical Report Writing (4)
 MATH 232 Applied Statistics (3)
 PHYS 105 Physics of Music (3)
 OR PHYS 101 Introduction to Physics (3)

Electives (6 Credits)

ACCT 230 Principles of Accounting I (3)
 ECON 202 Principles of Economics 1 (3)
 MGMT 405 Small Business Management (3)
 CHEM 110 Fundamentals of Chemistry (3)
 CHEM 180 Introduction to Organic and Biochemistry (4)
 Concurrent registration with CHEM 185 Introduction to Organic and Biochemistry Lab (1)
 PSY 348 Cognition and Perception (3)
 PSY 402 Child/Adolescent Psychology (3)
 PSY 403 Adulthood and Aging (3)
 SOC 308 Introduction to Gerontology (3)
 SPED 225 Individuals with Exceptionalities (3)
 SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
 SPED 423 Young Children with Disabilities and Their Families (3)
 SLHS 424 Childhood Stuttering (2)
 SLHS 347 AAC and Literacy Acquisition (3)
 SLHS 421 Speech Science and Instrumentation (3)

MINOR IN SPEECH-LANGUAGE-HEARING SCIENCES (25 Credits)

Requirements (17 Credits)

A minor in SLHS is not equivalent to a Speech Pathology Assistant degree.
 SLHS 101 Survey of Speech-Language-Hearing Disorders (3)
 SLHS 201 Linguistic Phonetics (3)
 SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
 SLHS 204 Language Development (4)
 SLHS 273 Hearing/Vestibular Disorders & Assessment (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.

Sustainability

Physics and Astronomy Department
Hagen Hall 307, (218) 477-2141

Chair: Matthew Craig

Program Coordinator: Dennis Jacobs

DEGREE IN SUSTAINABILITY

The Sustainability program is designed to give students an understanding of the need for long-term sustainable practices in our lifestyles and economy. The six areas of emphasis will prepare the student with a background that will allow them to enter the new green economy. The Bachelor's Degree in Sustainability is enhanced by Emphases in Business, Construction Management, Energy Sustainability, Environmental Policy, Environmental Science, or Operations Management.

STUDENT LEARNING OUTCOMES

Students will understand:

- 1st and 2nd Laws of Thermodynamics.
- Limits to growth including population pressure.
- Biodiversity.
- Climate change.
- Peak oil.
- Environmental pollution
- Environmental policy.
- Present and future energy sources and their effect on the environment.
- Social change.
- Lifestyle effects on the environment.
- Basic principles of the various scientific disciplines..

UPPER LEVEL WRITING REQUIREMENT

HIST 379 Environmental History or CHEM 304 The Environment and You

B.S. DEGREE IN SUSTAINABILITY (120 Credits)

Core Requirements (20-21 Credits)

ANTH 317 Collapse (3)

BIOL 370 Exploring Biology (3)

CHEM 105 Chemistry in Everyday Life (3)

OR CHEM 110 Fundamentals of Chemistry (3)

AND CHEM 110L Fundamentals of Chemistry Lab (1)

OR CHEM 150 General Chemistry I (3)

AND CHEM 150L General Chemistry I Lab (1)

GEOS 115 Physical Geology (4)

AND GEOS 115L Physical Geology Lab (0)

OR GEOS 117 Water, Land and People (3)

AND GEOS 117L Water, Land and People Lab (1)

MATH 142 Pre Calculus (4)

PHYS 140 Introduction to Sustainability (3)

Restricted Electives (21 Credits)

Students must take HIST 379 and/or CHEM 340.

Students must take 4 courses from the list of courses.

ANTH 307 Ecological Anthropology (3)

CM 327 Sustainability in the Built Environment (3)

GEOS 335 Environmental Geography and Conservation (3)

HIST 379 Environmental History (3)

POL 345 Environmental Politics (3)

PSY 324 Environmental Psychology (3)

SOC 319 Society and the Environment (3)

Students must take 3 courses from the list of courses.

BIOL 346 Ecological Perspective (3)

CHEM 304 The Environment and You (3)

GEOS 305 Oceanography (3)

GEOS 330 Elementary Meteorology (3)

PSCI 378 Energy and the Environment (3)

INTERNSHIP/SERVICE LEARNING

Student will take the internship through their emphasis department. The internship will be monitored and evaluated by the Sustainability Program Coordinator.

EMPHASIS IN BUSINESS (33-36 Credits)

In addition to the courses listed below, students must complete the core requirements and restricted electives listed under the B.S. Degree in Sustainability.

Requirements (33-36 Credits)

Courses may be substituted with approval of advisor.

ACCT 230 Principles of Accounting (3)

BUS 365 Entrepreneurship (3)

ECON 202 Principles of Economics: Microeconomics (3)

FINC 325 Financial Institutions and Markets (3)

OR FINC 360 Principles of Investment (3)

FINC 340 Financial Management (3)

MATH 234 Introduction to Probability and Statistics (3)

MGMT 360 Principles of Management (3)

MGMT 380 Operations Management (3)

MKTG 310 Principles of Marketing (3)

MKTG 311 Marketing Management (3)

OR MKTG 421 Consumer Behavior (3)

PHYS 469 Internship (1-12) *Must be taken for a minimum of 3 credits. Maximum of 6 credits will count toward the emphasis.

EMPHASIS IN CONSTRUCTION MANAGEMENT (31-34 Credits)

In addition to the courses listed below, students must complete the core requirements and restricted electives listed under the B.S. Degree in Sustainability.

Requirements (31-34 Credits)

CM 216 Construction Graphics (3)

CM 220 Commercial Building Methods and Material (3)

CM 230 Estimating I: Quantity Survey (3)

CM 254 Mechanical/Electrical Systems (3)

CM 335 Estimating II: Pricing and Productivity (3)

CM 340 Planning and Scheduling (4)

CM 370 Construction Documents and Specifications (3)
 CM 460 Project Administration (3)
 CM 469 Internship (1-12) *Must be taken for a minimum of 3 credits. Maximum of 5 credits will count toward the emphasis.
 MGMT 360 Principles of Management (3)

EMPHASIS IN ENERGY (29-32 Credits)

In addition to the courses listed below, students must complete the core requirements and restricted electives listed under the B.S. Degree in Sustainability.

Requirements (29-32 Credits)

CHEM 210 General Chemistry II (4)
 CM 254 Mechanical/Electrical Systems (3)
 PHYS 160 College Physics I (3)
 AND PHYS 160L College Physics I Lab (1)
 OR PHYS 200 General Physics I (3)
 AND PHYS 200L General Physics II Lab (1)
 PHYS 161 College Physics II (4)
 OR PHYS 201 General Physics II (4)
 PHYS 188 Introduction to 20th Century Physics (3)
 PHYS 302 Sustainable Energy-Science and Application (3)
 PHYS 312 Analog Electronics (3)
 PHYS 455 Senior Project (2)
 PHYS 469 Internship (1-12) *Must be taken for a minimum of 3 credits. Maximum of 6 credits will count toward the emphasis.

EMPHASIS IN ENVIRONMENTAL POLICY (33-36 Credits)

In addition to the courses listed below, students must complete the core requirements and restricted electives listed under the B.S. Degree in Sustainability. Students must plan a program which includes 33 credits from the various emphases with at least 15 credits at the 300 level or higher and must include PHYS 429.

Requirements (33-36 Credits)

PHYS 469 Internship (1-12) *Must be taken for a minimum of 3 credits. Maximum of 6 credits will count toward the emphasis.
 Select at least 30 credits from the list of courses below. The credits cannot overlap with the credits counted in the core or restricted electives.
 ANTH 307 Ecological Anthropology (3)
 BIOL 308 Pacific Northwest Ecology (3)
 BIOL 335 Tropical Field Biology (3)
 BIOL 345 Principles of Ecology (4)
 BIOL 455 Wildlife Ecology (4)
 ENGL 407 Big City, Big Impact (3)
 GEOS 115 Physical Geology (4)
 AND GEOS 115L Physical Geology Lab (0)
 GEOS 117 Water, Land and People (3)
 AND GEOS 117L Water, Land and People Lab (1)
 GEOS 305 Oceanography (3)
 GEOS 330 Elementary Meteorology (3)

GEOS 340 Economic and Environmental Geology (3)
 GEOS 405 Geographic Information Systems (3)
 GEOS 415 Reading Geochemical Fingerprints (3)
 HIST 373 Monsoon Asia (3)
 HIST 379 Environmental History (3)
 HIST 469 Internship (1-12)
 HIST 497 Individual Study (1-3)
 POL 345 Environmental Politics (3)
 PSCI 378 Energy and the Environment

EMPHASIS IN ENVIRONMENTAL SCIENCE (35-39 Credits)

In addition to the courses listed below, students must complete the core requirements and restricted electives listed under the B.S. Degree in Sustainability.

Requirements (35-39 Credits)

BIOL 111 Cell Biology (4)
 BIOL 115 Organismal Biology (4)
 GEOS 115 Physical Geology (4)
 AND GEOS 115L Physical Geology Lab (0)
 GEOS 117 Water, Land and People (3)
 AND GEOS 117L Water, Land and People Lab (1)
 GEOS 469 Internship (1-12) *Must be taken for a minimum of 3 credits. Maximum of 6 credits will count toward the emphasis.
 Select 5 courses from the list of courses below.
 BIOL 335 Tropical Field Biology (3)
 BIOL 345 Principles of Ecology (4)
 BIOL 455 Wildlife Ecology (4)
 GEOS 340 Economic and Environmental Geology (3)
 GEOS 405 Geographic Information Systems (3)
 GEOS 415 Reading Geochemical Fingerprints (3)

EMPHASIS IN OPERATIONS MANAGEMENT (34-37 Credits)

In addition to the courses listed below, students must complete the core requirements and restricted electives listed under the B.S. Degree in Sustainability.

Requirements (34-37 Credits)

ACCT 230 Principles of Accounting (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 Technologists (4)
 TECH 428 Project Management (3)
 TECH 469 Internship (1-12) *Must be taken for a minimum of 3 credits. Maximum of 6 credits will count toward the emphasis.
 TECH 482 Quality Planning and Implementation (3)
 TECH 485 Production Inventory Management (3)
 TECH 493 Occupational Safety and Health (3)

Teacher Education

Teacher Education/Field Experience

Lommen Hall 154

Coordinator: Lynn Mahlum

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.

Minnesota Universities do not grant teacher licensure; the State of Minnesota does. Universities offer programs of study designed to prepare students to meet the state's licensure requirements.

Teacher Education Requirements

To be eligible for graduation 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
- take the MTLE (Minnesota Teacher Licensing Exam)

Students are also strongly encouraged to take state-required MTLE pedagogy and content tests before graduation. Those applying for Minnesota teacher licensure must pass state-required MTLE basic skills pedagogy and content tests at the score-levels required at the time of license application.

Selective Admission and Retention in Teacher Education (SARTE)

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, SPED and STL. STL 330 is the one exception to this rule – candidates *may enroll* in STL 330 prior to SARTE admission

All education majors must:

- complete 100 and 200 level education core courses with a grade of C- or higher.
ED 205
ED 294
AMCS 233 or CMST 100
- have a GPA of 2.25 in general education courses
- have a GPA of 2.5 or higher in Education Core Courses, with a grade of "C-" or higher in each course

- have a cumulative GPA of 2.5 (Secondary/K-12); 2.75 (Elementary Inclusive Education, Early Childhood Education, Special Education) or higher
- take the MTLE basic skills test take the MTLE basic skills test
- 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
- submit application for admission to Teacher Education.

Additionally Elementary and Early Childhood Education majors must also:

- have completed 45 semester credits
- have a cumulative GPA of 2.75
- have a grade of C- or better in all courses required for licensure
- 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;

Secondary, K-12 majors must also:

- have a cumulative GPA of 2.5
- Students who fail to maintain required GPAs 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.

Retention in Teacher Education

To be retained in a program in teacher education, students must meet the following requirements.

All education majors must:

- complete at least 60 (junior level retention) and complete at least 90 (senior level retention) semester credit hours
- maintain a GPA of 2.25 in the Liberal Arts and Sciences Curriculum
- maintain a GPA of 2.5 or higher in Education Core Courses with grade of "C-" or higher in each course
- enroll in methods courses simultaneously with practicum
- have successful performance evaluation in all practica

Core Education courses for teacher education programs are:

Early Childhood Education Program Core Education Courses (18 Credits)

ED 205 Introduction to Education (3)
 ED 294 Educational Psychology (3)
 ED 310 Social Foundations of Education (3)
 EECE 230 Child Development and Learning for Teachers (3)
 SPED 225 Individuals with Exceptionalities (3)
 STL 291 Early Literacy (3)

Elementary Inclusive Education Program Core Education Courses (20 Credits)

ED 205 Introduction to Education (3)
 ED 294 Educational Psychology (3)
 ED 310 Social Foundations of Education (3)
 SPED 225 Individuals with Exceptionalities (3)
 STL 291 Early Literacy (3)
 STL 327 Technology in Education (2)
 STL 330 Child Development and Learning for Teachers (3)

Secondary K-12 Program Core Education Courses (36 Credits)

AMCS 233 Education and Multicultural America (3)
 CMST 100 Speech Communication (3)
 ED 205 Introduction to Education (3)
 ED 294 Educational Psychology (3)
 ED 310 Social Foundations of Education (3)
 ED 398 Field Experience in Secondary Education (2)
 ED 443S Classroom Management/Consultation (3)
 ED 448 Reading Study Skills in the Content Areas (3)
 ED 461S Student Teaching: Secondary (10)

OR ED 460S Student Teaching: Secondary (5)

AND EECE 480E Student Teaching: Elementary (5)
 SPED 225 Individuals with Exceptionalities (3)

Special Education Program Core Education Courses (18 Credits)

ED 205 Introduction to Education (3)
 ED 294 Educational Psychology (3)
 ED 310 Social Foundations of Education (3)
 EECE 230 Child Development and Learning for Teachers (3)

OR PSY 202 Developmental Psychology (3)

SPED 225 Individuals with Exceptionalities (3)
 STL 291 Early Literacy (3)

Additionally Elementary and Early Childhood Education and Special Education majors must also:

- maintain a cumulative GPA of 2.75
- have a grade of C- or better in all courses required for licensure

Secondary, K-12 majors must also:

- maintain a cumulative GPA of 2.5

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. ED 205 is the first early field experience for all licensure areas. 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/edhuman/edmajor.cfm.

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.

Requirements for Admission to Student Teaching

All education majors must:

- have admission and retention in Teacher Education Program (SARTE)
- have completed all Education Core courses
- complete program requirements, including methods courses
- maintain a GPA of 2.25 in Liberal Arts and Sciences Curriculum
- maintain a cumulative GPA of 2.5 or higher with grade of "C-" or higher in each in Education Core Courses
- have successful performance evaluation in all practica
- apply for student teaching by the posted deadline
- attend student teaching orientation

- be aware of and comply with requirements from the school district in which they are placed for student teaching, e.g. criminal background checks

Additionally Elementary and Early Childhood Education and Special Education majors must:

- maintain a cumulative GPA of 2.75 or higher
- have a grade of C- or better in all courses required for licensure

Minnesota Teacher Licensure Requirements

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 MTLE. 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, including all necessary signatures, and submitted to the Registrar before any license application may be processed.

The application for Minnesota licensure must be submitted online at <http://education.state.mn.us/mde/index.html>.

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 MTLE.

If you have any questions concerning Title II, please contact the Dean of Education and Human Services at (218) 477-2096.

Minnesota State University Moorhead prepares students for Minnesota teacher licensure. A student interested in licensure from other states (including North Dakota) should contact departments of teacher licensure in those states for specific information, as it is the student's responsibility to meet individual states' requirements for licensure.

STUDENT LEARNING OUTCOMES

MSUM teacher candidates:

- apply general education 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.

Teaching English as a Second Language

Program Coordinator: Linda Houts-Smith
MacLean Hall 279B, 218-477-4059

MINOR IN TEACHING ENGLISH AS A SECOND LANGUAGE

Students who select this minor may consider one of two different emphases, which are currently under revision. Students should discuss their intentions with the TESL program coordinator and their academic advisor in order to ensure they pursue a course of study that meshes well with their majors and future plans.

The first emphasis covers a course of study that will lead to a K-12 license in teaching English as a second language in the state of Minnesota. To obtain K-12 licensure in TESL, a student must also pursue an education major in another discipline and must include the secondary/K-12 Education Core classes in their program of study. Application and acceptance to the teacher education program will take place through the established procedures in the major discipline. Although this first emphasis may lead to K-12 teaching licenses in other states, students should contact the representatives of the licensing boards in those states to determine what, if any, additional coursework may be necessary.

The second emphasis available does not lead to licensure in the K-12 schools but allows students who have an interest in TESL for such situations as missionary work or Peace Corps to begin training prior to their departure. Students who do not seek K-12 licensure in Minnesota or another state do not need to major in another education discipline but may select any major offered by MSUM.

Both emphases require the study of a foreign or second language for the equivalent of one year at the college level.

Core Requirements for both emphases (20 credits)

ENGL 365 Language and Learning (3)
LANG 457 Second Language Acquisition and Language Teaching (3)
LANG 471 Methods and Materials in Teaching Foreign Languages I (4)
LANG 472 Methods and Materials in Teaching Foreign Languages II (4)
TESL 451 English Structures (3)
TESL 454 Grammar for Teaching English as a Second Language (3)

Language Requirements for both emphases (8 credits)

One year of college level foreign language study or its equivalent.

Technology

Technology Department

Hagen Hall 211, (218) 477-2104

Chair: Pam McGee and Scott Seltveit

Faculty: Norma Andersen, Kenneth Berlolini, Aziz Kian, Han Li, Pam McGee, Ronald Williams

The Department of Technology houses two B.S. degree programs. Please see the listings by program:

- B.S. Construction Management - see Construction Management
- B.S. Operations Management – see Operations Management (2+2)

Theatre Arts

Theatre Arts Department

Roland Dille Center for the Arts 116, (218) 477-2126

Chair: Craig A. Ellingson

Faculty: David Wheeler

The Minnesota State University Moorhead Theatre Arts Department 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 with students 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 Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. The department provides 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 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

THTR 322: Drama II and THTR 323: Drama III

B.A. DEGREE IN THEATRE ARTS (120 credits)

Core Requirements (32 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 (2)

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 32 credits, an emphasis of 19 credits is also required. Students may choose from the emphases listed below.

EMPHASIS IN PERFORMANCE: ACTING (19 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 (4 credits)

Students must take four credits in theatre electives which are at the 300 level or higher.

EMPHASIS IN PERFORMANCE: MUSICAL THEATRE (17 credits)

MUS 110 Musicianship: Non-Majors (2)

MUS 154 Music Performance: Voice (1)

MUS 219 Singing Skills: Musical Theatre (1)

THTR 240 Dance for the Stage II (2)

THTR 324 Musical Theatre History (3)

THTR 333 Movement for the Actor (3)

OR THTR 334 Voice for Acting (3)

THTR 430 Musical Theatre Acting (3)

THTR 440 Dance Production (1) (Must be repeated 2 times for 2 credits)

Recommended (none required)

MUS 150A Class Piano I (1)

MUS 150B Class Piano II (1)

MUS 150C Class Piano III (1)

MUS 150D Class Piano IV (1)

MUS 254 Music Performance: Voice (1-2)
 MUS 354 Music Performance: Voice (1-3)
 MUS 454 Music Performance: Voice (1-3)
 THTR 231 Auditioning (3)
 THTR 430 Acting Styles: Period Performance (3)
 THTR 430 Acting Styles: Shakespeare (3)
 THTR 430 Acting Styles: Dialects (3)
 THTR 440 Dance Production (1)

THTR 324 Musical Theatre History (3)
 THTR 333 Movement for the Actor (3)
 THTR 340 Principles of Choreography (3)
 THTR 440 Dance Production (1)

Related Requirements (4 credits)

HLTH 250 Injury Management (2)
 MUS 110 Musicianship for Non-majors (2)

EMPHASIS IN DIRECTING (19 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 (4)

Students must take four credits in theatre electives which are at the 300 level or higher.

EMPHASIS IN THEATRE TECHNOLOGY AND DESIGN (19 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 (4 credits)

Students must take four credits in theatre electives which are at the 300 level or higher.

MINOR IN THEATRE ARTS (25 Credits)

Requirements (18 Credits)

THTR 160 must be taken twice.
 THTR 140 Dance for the Stage I (2)
 THTR 160 Technical Theatre Production (1)
 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 (7 credits)

Students must take seven credits in theatre electives which are at the 300 level or higher.

MINOR IN THEATRE DANCE (25 Credits)

Requirements (21 Credits)

Students must repeat THTR 440 for a total of four credits.
 THTR 140 Dance for the Stage I (2)
 THTR 141 Ballet I (2)
 THTR 142 Tap I (2)
 THTR 240 Dance for the Stage II (2)

University Studies

University College
FR 153 (218) 477-4635

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.

UPPER LEVEL WRITING REQUIREMENT

CMST 301: Business and Professional Communication
OR ENGL 387: Technical Report Writing

Requirements (120 credits)

- 42 credits: Liberal Arts and Sciences Curriculum 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
- 21 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.

Women's and Gender Studies

Women's and Gender Studies

MacLean Hall, 175 (218) 477-4070

Program Director: Linda Fuselier

Program and Affiliated Faculty: Anna Arnar, Laurie Blunsom, Marilea Bramer, Karen Branden, Ellen Brisch, Layna Cole, Rebecca Gardner, Brittney Goodman, Paul Harris, Geri Hendrix-Sloan, Susan Humphers-Ginther, Kyja Kristjansson-Nelson, Cecilia Mafla-Bustamante, Phyllis May-Machunda, Terry Manno, Katherine Meiners, Annette Morrow, Carol Okigbo, Cynthia Phillips, Raymond Rea, Hazel Retzlaff, Larry Schwartz, Sherry Short, Chris Walla, Patricia Wisenden, Deborah White

Women's and Gender Studies Curriculum

The Women's and Gender Studies program at MSUM has been ongoing since 1971. Students can earn a major or minor in Women's and Gender Studies and a certificate in Women and Science. Women's and Gender Studies uses diverse historic and contemporary sources to examine the intersections of gender with racism, classism, heterosexism and other oppressions. Courses in the program use theoretical frameworks grounded in anti-oppression and social justice work to analyze the social and political locations of diverse identities. The program combines an interdisciplinary understanding of social structures with specific analyses of women's experiences both locally and globally. Students are challenged to understand and analyze complex current and historic realities and to enact social change through activism.

For further information about the Women's and Gender Studies Program, please visit our website:

www.mnstate.edu/women/.

STUDENT LEARNING OUTCOMES

- Describe how identities are socially constructed along intersecting axes of gender, race, class, sexuality and ability.
- To demonstrate knowledge of issues facing women and the movements that have responded to those issues both historically and globally.
- To recognize and analyze dynamics of social power, including relations of oppression and privilege between men and women as well as between women of different social groups.
- To evaluate issues utilizing the tools of multiple disciplines (multidisciplinarity) and by moving between disciplines in ways that bring those disciplines together (interdisciplinarity).
- To examine the relationship between theory and practice by applying knowledge gained in the academy to circumstances, experiences and activist work outside of the academy

UPPER LEVEL WRITING REQUIREMENT

WS 412: Seminar in Women's Studies

B.A. DEGREE IN WOMEN'S AND GENDER STUDIES (120Credits)

Core Requirements (12 Credits)

WS 100 Women Today: Contemporary Women's Issues (3)
 WS 247 Women's Studies: Perspectives and Intersections (3)
 WS 314 Feminist Philosophy (3)
 WS 412 Seminar in Women's Studies (3)

Related Requirements (18 Credits)

Students must complete a minimum of six credits in Multicultural/Global Perspectives, six credits in the Social and Natural Sciences Area and six credits in the Arts and Humanities Area. At least nine of these credits must be at the upper division level.

Multicultural/Global Perspectives

WS 312 Rhetorics of Resistance: Feminist Responses from the Humanities (3)

OR AMCS 372 Dynamics of Prejudice and Oppression (3)
 WS 420 Feminism in Global Perspective (3)

Social and Natural Sciences Area

WS 300 Biology of Women (3)
 WS 303 Cross Cultural Gender (3)
 WS 333 Sociology of Gender (3)
 PSY 310 Psychology of Women (3)
 WS 407 Inclusive Science: Women, Gender and Science (3)

Arts and Humanities Area

HIST 375 Women in United States History (3)
 WS 246 Women in Literature (3)
 WS 350 Women in European History (4)
 WS 408 Women and Art (4)

Restricted Electives (12 Credits)

Students may use ENGL 248 or MC 496 only when topic relates to Women's and Gender Studies content and CJ 400 only when the topic is "Women and Crime." Students must select 12 credits of electives from this list in addition to the courses used for the core and related requirements. Many of the courses are cross-listed with WS and the Department.

ENGL 248 Introduction to American Ethnic Literature (3)
 CJ 400 Seminar in Criminal Justice (1-4)
 HIST 375 Women in United States History (3)
 PSY 310 Psychology of Women (3)
 WS 316 Women in Action (3)
 WS 330 Gender, Justice and the Environment (3)
 WS 390 Topics in Women's Studies (1-4)
 WS 395 Research in Women's Studies (1-3)
 WS 397 Individual Study (1-3)
 WS 410 Directed Readings in Women's Studies (1-3)
 WS 412 Seminar in Women's Studies (3)
 WS 415 Media and Diverse Identities (3)
 WS 470 Undergraduate Teaching Assistant (1)
 WS/ANTH 303 Cross Cultural Gender (3)

WS/BIOL 406 DNA as Destiny: Genetics and Society (3)
 WS/ECON 305 The Economics of Poverty, Discrimination,
 and Inequality (3)
 WS/HIST 344 Women in World Religions (3)
 WS/HIST 350 Women in European History (4)
 WS/PHIL 235 Philosophy of Sex and Love (3)
 WS/PHIL 495 Topics in Feminist Theory (3)
 WS/PE 294 Women and Sport (3)
 WS/SOC 219 Sociology of Sexual Behavior (3)
 WS/SOC 308 Social Gerontology (3)
 WS/SOC 310 Dominant-Subordinate Group Relations (3)
 WS/SOC 320 Sociology of the Family (3)
 WS/SOC 333 Sociology of Gender (3)
 WS/SOC 334 Lesbian, Gay, Bisexual, Transgender, and Queer
 Issues (3)
 WS/SOC 416 Violence in the Family (3)

MINOR IN WOMEN'S AND GENDER STUDIES (21 Credits)

Requirements (12 Credits)

WS 100 Women Today: Contemporary Women's Issues (3)
 WS 247 Women's Studies: Perspectives and Intersections (3)
 WS 314 Feminist Philosophy (3)
 WS 412 Seminar in Women's Studies (3)
OR WS 420 Feminism in Global Perspective (3)

Electives (9 Credits)

Three courses are required. Students may use only two courses from the same discipline area. Other courses may be allowed with prior approval of the program coordinator. If you choose ENGL 248 the topic must relate to Women's and Gender Studies and CJ 400 only when the topic is "Women and Crime."

AMCS 372 Dynamics of Prejudice and Oppression (3)
 CJ 400 Seminar in Criminal Justice (1-4)
 ENGL 248 Introduction to American Ethnic Literature (3)
 HIST 375 Women in United States History (3)
 PSY 310 Psychology of Women (3)
 WS 312 Rhetorics of Resistance: Feminist Responses from the Humanities (3)
 WS 316 Women in Action (3)
 WS 330 Gender, Justice and the Environment (3)
 WS 390 Topics in Women's Studies (1-4)
 WS 395 Research in Women's Studies (1-3)
 WS 397 Individual Study (1-3)
 WS 407 Inclusive Science (3)
 WS 410 Directed Readings in Women's Studies (1-3)
 WS 412 Seminar in Women's Studies (3)
 WS 415 Media and Diverse Identities (3)
 WS 420 Feminism in Global Perspective (3)
 WS 470 Undergraduate Teaching Assistant (1)
 WS/ANTH 303 Cross Cultural Gender (3)
 WS/ART 408 Women and Art (4)
 WS/BIOL 300 Biology of Women (3)
 WS/BIOL 406 DNA as Destiny: Genetics and Society (3)

WS/ECON 305 The Economics of Poverty, Discrimination,
 and Inequality (3)
 WS/ENGL 246 Women in Literature (3)
 WS/HIST 344 Women in World Religions (3)
 WS/HIST 350 Women in European History (4)
 WS/PE 294 Women and Sport (3)
 WS/PHIL 235 Philosophy of Sex and Love (3)
 WS/PHIL 495 Topics in Feminist Theory (3)
 WS/SOC 219 Sociology of Sexual Behavior (3)
 WS/SOC 308 Social Gerontology (3)
 WS/SOC 310 Dominant-Subordinate Group Relations (3)
 WS/SOC 320 Sociology of the Family (3)
 WS/SOC 333 Sociology of Gender (3)
 WS/SOC 334 Lesbian, Gay, Bisexual, Transgender, and Queer
 Issues (3)
 WS/SOC 416 Violence in the Family (3)

WOMEN AND SCIENCE CERTIFICATE

Requirements (13 Credits)

Students must complete any Natural Science general education course with Lab besides WS/BIOL 300 and the following three courses:

WS 247 Women's Studies: Perspectives and Intersections (3)
 WS 300 Biology of Women (3)
 WS 407 Inclusive Science: Women, Gender and Science (3)

The Course Description section lists undergraduate courses offered at Minnesota State University Moorhead as of June 2011, arranged in alphabetical order by subject. The first line indicates the department offering the course, course number, Dragon Core (the specific Dragon Core category is enclosed in brackets), course title, and credit value. The W within a bracket indicates the course is writing intensive. 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 developmental or technical courses which are not applicable to college degree requirements.

Accounting

ACCT 230 Principles of Accounting I (3)

Fall: All Years **Spring:** All Years

From a user's perspective, an introduction to the content and concepts underlying the three basic financial statements prepared by management for use by investors and creditors. Includes financial statement analysis.

ACCT 231 Principles of Accounting II (3)

Fall: All Years **Spring:** All Years

An introduction to the content and concepts of financial information for management's use in directing operations. Topics include cost behavior, product costing, actual and standard costs, cost-volume-profit analysis, relevant costs, operational and capital budgeting, and present value analysis.

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)

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 321 Employment Law (3)

Spring: All Years

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 375 or MGMT 370.

Prerequisite: ACCT 231 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)

Fall: 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 375 Accounting Systems (3)

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 330, CSIS 104.

ACCT 430 Advanced Accounting (3)

Spring: All Years

Study of consolidations, partnerships, and other advanced topics. Continues development of research skills using FARS.

Prerequisite: ACCT 331.

ACCT 432 Advanced Accounting II (3)

Fall: All Years

This course presents various advanced topics in accounting. Topics may include: foreign currency transactions, translation of foreign currency financial statements, international accounting standards, accounting for liquidation, accounting for estates and trusts, and accounting for governmental and nonprofit entities. Course coverage may be modified to reflect current issues in the accounting area.

Prerequisite: ACCT 331.

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 [W] 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 330.**ACCT 461 Audit II (3)****Spring:** All Years

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

A supervised practical experience in accounting. A maximum of 12 internship credits may be applied to the degree. Students must complete the required prerequisite plus three Accounting credits above ACCT 330 prior to internship.

Prerequisite: ACCT 330.**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. MnTC Goal 2.

AMCS 102 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 [2] Contemporary Chicanos (3)

Fall: On Demand **Spring:** On Demand

Political, economic and social developments within the Chicano community. MnTC Goal 2.

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 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.

AMCS 203 [7] Chicano Culture (3)

Fall: On Demand **Spring:** On Demand

Key aspects of Chicano culture with an emphasis on literature, history and philosophy. MnTC Goal 7.

AMCS 207 Ojibwa Language I (3)

Fall: All Years

This elementary course is designed to give students the necessary speaking and grammar skills to begin reading, writing, and conversing in the Ojibwe language. Ojibwe is the language of the Anisshinaabe people, one of the American Indian tribes with contemporary communities in several states and provinces, including Minnesota, North Dakota, Michigan, Wisconsin, Montana, Ontario, and Manitoba.

AMCS 208 Ojibwe Language II (3)

Spring: All Years

This elementary course is a continuation of Ojibwe Language I, and is designed to give students the necessary speaking and grammar skills to continue reading, writing, and conversing in the Ojibwe language. Ojibwe is the language of the Anisshinaabe people, one of the American Indian tribes with contemporary communities in several states and provinces, including Minnesota, North Dakota, Michigan, Wisconsin, Montana, Ontario, and Manitoba.

Prerequisite: AMCS 207.

AMCS 209 [6] African American Humanities I: Roots (3)

Fall: On Demand **Spring:** On Demand

This course offers a survey of selected aspects of the arts and humanities of African Americans from multidisciplinary perspectives. Beginning with the fundamental cultural resources of African traditional roots and American slave experiences, we trace their cultural legacies through the historical, cultural, artistic, expressive and aesthetic dimensions of the lives of Black people in the U.S. through the Civil War. Students will be expected to recognize and understand the critical links between Blacks' experiences as Americans and their aesthetic and cultural expressions. They will be required to critically integrate information from readings with classroom presentations and discussions. MnTC Goal 6.

AMCS 210 [6] African American Humanities II: 1865-Present (3)

Fall: On Demand **Spring:** On Demand

This course offers a survey of selected aspects of the arts and humanities of African Americans from multidisciplinary perspectives. Beginning with the hope for new opportunities after the end of slavery to the 21st century, we trace the struggles and aspirations of African Americans through the historical, cultural, artistic, expressive and aesthetic dimensions of their lives in the U.S. Students will be expected to recognize and understand the critical links between Blacks' experiences as Americans and their aesthetic and cultural expressions. They will be required to critically integrate information from readings with classroom presentations and discussions. MnTC Goal 6.

AMCS 211 [7] 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. MnTC Goal 7.

AMCS 220 [7] Contemporary Asian America (3)**Spring:** All Years

This course is an introduction to recent experiences, political, social and cultural formations of Asian Americans. We will be exploring the emergence and significance of "Asian American" as an identity formation, a racialized category, and set of ethnic experiences. Through reading, writing and discussion, we will focus on the following questions: What is Asian America, and whom does it include: Does the category "Asian American" make sense as a racial identity: Within American Asian ethnic communities: How does the Asian American experience help us understand contemporary race issues and current ethnic-racial identities? MnTC Goal 7.

AMCS 225 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 [7/W] Education and Multicultural America (3)**Fall:** All Years **Spring:** All Years

This course provides an introduction to multicultural perspectives on American education. Given that the United States is becoming more culturally diverse and operates within an increasingly globalized world, citizens need to be equipped to understand the diverse cultures with which they work and interact. This course exposes students to the experiences and challenges of African Americans, American Indians, Chicano/Latinos and Asian Americans in the U.S. educational system from historical and contemporary perspectives. The course content both demystifies stereotypes and myths attributed to these groups and stresses the marvelous complexity and diversity of these groups as they seek equitable access to quality education. MnTC Goal 7.

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)**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 [6] African American Music (3)**Fall:** On Demand

A survey of African American non-jazz musicians and music traditions. MnTC Goal 6.

AMCS 302[8/W] Latinos of the Caribbean: Cuba, Dominican Republic, and Puerto Rico (3)**Fall:** On Demand

This course explores the economic, political, and cultural globalization of the Spanish Caribbean from an interdisciplinary, analytical, and historical framework. The impact of globalization is examined through migration (economic and political) and remittances; emergence of transnational societies; political transnational movements such as the Generacion Y, the Cuban blog; and cross-border exchanges in cultural trends. MnTC Goal 8.

AMCS 303 [7] 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. MnTC Goal 7.

AMCS 304 [7/W] American Indians and Hollywood (3)**Fall:** On Demand **Spring:** On Demand

In this course students will study images of American Indian peoples as presented in Hollywood from the Silent Era to the present. Students will learn about the historic contexts under which these films were conceived, written, shown, and received. Students will also examine American Indian images in other media and popular culture. This is a writing intensive course. Throughout this course, students will have to complete short, informal writing assignments. They are also required to complete formal, polished writing assignments throughout the course including response papers and one term paper. MnTC Goal 7.

AMCS 307 Ojibwe Language III (3)**Fall:** All Years

This intermediate course is a continuation of Ojibwe Language II, and is designed to give students the necessary speaking and grammar skills to begin the process of becoming proficient in written and spoken Ojibwe. Ojibwe is the language of the Anishinaabe people, one of the American Indian tribes with contemporary communities in several states and provinces, including Minnesota, North Dakota, Michigan, Wisconsin, Montana, Ontario, and Manitoba.

Prerequisite: AMCS 208.

AMCS 308 Ojibwe Language IV (3)**Spring:** All Years

This intermediate course is a continuation of Ojibwe Language III, and is designed to give students the necessary speaking and grammar skills to become proficient in written and spoken Ojibwe. Ojibwe is the language of the Anishinaabe people, one of the American Indian tribes with contemporary communities in several states and provinces, including Minnesota, North Dakota, Michigan, Wisconsin, Montana, Ontario, and Manitoba.

Prerequisite: AMCS 307.**AMCS 312 [5] Origins of Multicultural America (3)****Fall:** All Years

This course is an introduction to the interdisciplinary study of multicultural America. This course looks at the history of multicultural America beginning before European contact with Native peoples and continuing through the Civil war. Course materials are drawn from disciplines such as humanities, social sciences, literature, philosophy, and the arts. MnTC Goal 5.

AMCS 313 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 [6] 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. MnTC Goal 6.

AMCS 319 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 AMCS 202.**AMCS 320 [7] American Indian Belief Systems (3)****Spring:** All Years

American Indian Belief Systems focuses on common thematic elements found throughout diverse American Indian communities. This course introduces the students to the philosophies, knowledges, languages, and spiritual beliefs of indigenous peoples in the Americas using a variety of texts and audiovisual materials from the humanities and social sciences as well as oral histories, interviews, and personal narratives. In this course students will critically examine issues surrounding the resistance, loss, reclamation, and revitalization of Indigenous cultures, knowledges, religions, and languages. Same as ANTH 320. MnTC Goal 7.

AMCS 325 [6] 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 120 are highly recommended as prerequisites. MnTC Goal 6.

AMCS 332 Indians of the Southwest (3)**Fall:** On Demand

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.

AMCS 340 Social Science Research Methods (3)**Fall:** On Demand **Spring:** On Demand

This course explores research methodologies in the field of American Multicultural Studies, with an emphasis on social science methodologies. Students will explore both quantitative and qualitative methods in American Multicultural Studies. In this exploration, students will both review the research and findings of others, and design their own research experiences.

AMCS 368 [8] Transnational Asian Adoption (3)**Fall:** On Demand **Spring:** On Demand

This course examines Asian adoption and the experience of Asian adoptees in America over the past 50 years. It centers on the experience of Asian adoptees focusing largely on the social and cultural production this ever-growing population. Using the Cold War as a historical baseline, the course considers the geopolitical and socioeconomic relationships between the United States and South Korea, China, Vietnam and India during and since the Cold War that have shaped the history of Asian adoption. In addition we will make historical and political connections between Asian adoption, transnational adoption, and domestic trans-racial adoption within the United States. MnTC Goal 8.

AMCS 372 [7] Dynamics of Prejudice and Oppression (3)**Spring:** On Demand

An examination of theoretical dimensions, dynamics and consequences of prejudices and oppression based on race, class, gender, 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. MnTC Goal 7.

AMCS 375 [7/11] Foundations of Antiracism Theory and Practice (3)**Fall:** All Years

This course will introduce students to a theoretical framework of anti-racism and its applications. Students will explore the cultural and social aspects of racism and learn ways of dismantling racism as a form of oppression on both individual and systemic levels. In addition, students will use concepts such as power and privilege, prejudice, discrimination, oppression, institutional transformation and change, anti-racist organizing, and social justice for personal and institutional analysis. Students will be required to attend a full day anti-racism training. Course content will expand upon knowledge gained in this training. MnTC Goal 7.

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 (1-12)**Fall:** On Demand **Spring:** On Demand

A supervised, practical experience in the field. A maximum of 12 internship credits may be applied to the degree.

AMCS 498 [W] 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. This is the designated writing intensive course for our major. Throughout this course students will have to complete short, informal writing assignments. They are also required to complete formal, polished writing assignments throughout the course including: response papers and one term paper. Themes vary each year. Possible themes are: Civil Rights, Education, Popular Culture, Folklore, Women's studies, Interracial Relationships, Multicultural Imaging. This course is open to majors of junior/senior standing and minors with permission.

Prerequisite: AMCS 300.

Anthropology

ANTH 100 [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. MnTC Goal 2.

ANTH 110 [7] Introduction to Cultural Anthropology (3)

Fall: All Years **Spring:** All Years

Introduction to the concept of culture and to the study of language. MnTC Goal 7.

ANTH 115 [5] Introduction to Archaeology (3)

Fall: 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. MnTC Goal 5.

ANTH 120 [3] 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. MnTC Goal 3.

ANTH 202 American Indian Culture (3)

Fall: On Demand **Spring:** On Demand

A historical perspective on living, traditional cultures of American Indian groups. Topics include tribal entities, religion, arts, life-styles and ecological adaptations.

ANTH 210 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 [5] The Paleolithic Age (3)

Fall: Even Years

An examination of Paleolithic archaeology, reviewing the major cultural achievements of the Old Stone Age, and outlining the basic techniques of archaeological science. MnTC Goal 5.

ANTH 217 [5] The Rise of Civilization (3)

Spring: Odd 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. MnTC Goal 5.

ANTH 265 Language and Culture (3)

Spring: All Years

The relationship between language and culture with emphasis on historical linguistics, sociolinguistics, psycholinguistics, and ethnolinguistics.

Prerequisite: ANTH 110.

ANTH 290 Topics in Anthropology (2-3)

Fall: On Demand **Spring:** On Demand

Topics from the subdisciplines of anthropology.

Prerequisite: ANTH 110, ANTH 115.

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: Even 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.

ANTH 303 Cross Cultural Gender (3)

Fall: 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 WS 303.

Prerequisite: ANTH 110.

ANTH 306 [8] Medical Anthropology (3)

Fall: 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. MnTC Goal 8.

Prerequisite: ANTH 110.

ANTH 307 [10] Ecological Anthropology (3)**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. MnTC Goal 10.

Prerequisite: ANTH 110.**ANTH 308 [8] Migration and Human Adaptation (3)****Fall:** On Demand

An examination of migration as an adaptive strategy used by people in adjusting to changing conditions in their environment. Explores types of migration as well as motivations and consequences of human movement in both the past and present and around the world. Same as INTL 308. MnTC Goal 8.

ANTH 311 [10] American Indians and the Environment (3)**Fall:** On Demand

To what degree does the image of the "ecological Indian" faithfully reflect American Indian ideas about the environment through time? This course will examine the idea of the "ecological Indian," the idea of American Indians were/are model ecologists and conservationists. We will explore the concept of sustainability among American Indians and the relationship between American Indian communities and the environment through an examination of their unique adaptations that they have made within the 10 major geo-cultural regions of native North America: Arctic, Subarctic, Great Basin, Plateau, Northwest Coast, California, Great Plains, Northeast and Southeast. MnTC Goal 10.

ANTH 313 [8] Understanding Contemporary Africa (3)**Fall:** On Demand **Spring:** On Demand

This course examines societies and cultures of contemporary Sub-Saharan Africa to promote a better understanding of the continent's place in the global system. MnTC Goal 8.

ANTH 315 North American Archaeology (3)**Spring:** On Demand

An overview of the prehistory of North America from the end of the Ice Age.

Prerequisite: ANTH 115.**ANTH 316 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 317 [10] Collapse (3)****Fall:** Odd Years **Spring:** Even Years

This course explores the notion of societal collapse using ancient societies and archaeological data. A variety of case studies, drawn from diverse cultural and environmental settings, are examined to identify the processes and causes of collapse. Of critical importance is the interplay between society and environment in achieving or failing to attain long-term sustainability. Present day contexts are examined using perspectives gained from the study of the past. MnTC Goal 10.

ANTH 318 [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. MnTC Goal 5.

ANTH 319 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 AMCS 202.**ANTH 320 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. Same as AMCS 320.

Prerequisite: ANTH 110 or ANTH 202 or AMCS 202.**ANTH 325 [W] Reading Landscape: Ways of Seeing (3)****Spring:** Odd 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. Same as GEOS 325.

ANTH 327 [W] The Aztecs (3)**Fall:** Odd Years **Spring:** Odd Years

This course is an examination of Aztec civilization. Varied perspectives, including native and Spanish chroniclers, archaeological data, and a cross-cultural understanding of archaic states, are employed to derive an understanding of Aztec civilization. MnTC Goal 7.

ANTH 329 [9] The Uses of the Past (3)

An examination of how the past is interpreted to satisfy ideological, political and social needs of groups. Ethical responsibilities related to interpreting the past are combined with understanding the importance of being fair-minded toward others' versions of the past. MnTC Goal 9.

ANTH 337 The Maya (3)

Spring: Odd Years

This course explores the archaeology of the Maya. Varied perspectives, including native, Spanish chroniclers, the archaeological record, and a cross-cultural understanding of archaic civilizations, are employed to derive and understanding of Maya civilization.

ANTH 348 Ideas of Culture (3)

Fall: 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: 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. Same as GEOS 350.

Prerequisite: ANTH 115 or GEOS 117.

ANTH 380 Traditional Cultures (3)

Fall: 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 [W] 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 or ANTH 115 or ANTH 120.

ANTH 450 Field Work in Anthropology (6)

Summer: On Demand

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)

Summer: 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 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 (1-12)

Fall: All Years **Spring:** All Years

A supervised, practical experience in the field. A maximum of 12 internship credits may be applied to the degree.

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 & Design

ART 100 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 [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. MnTC Goal 6.

ART 200 Individualized Studies (1-6)

Fall: All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

Prerequisite: 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 hand building with clay. Slip work and glazing are also covered.

Prerequisite: ART 102, 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 102, 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 102, 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 102, 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 102, 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 102, 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 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, appliqué, 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 102, 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 102, 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 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 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 300A Individualized Studies in Ceramics (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300B Individualized Studies in Graphic Design (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300C Individualized Studies in Painting (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300D Individualized Studies in Printmaking (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300E Individualized Studies in Sculpture (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300F Individualized Studies in Photography (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300H Individualized Studies in Figure Drawing (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300I Individualized Studies (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300J Individualized Studies in Art Education (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300K Individualized Studies in Fiber/Textiles (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 300L Individualized Studies in Illustration (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 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 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 [6/W] Philosophy of the Arts (3)****Fall:** Odd Years **Spring:** Odd Years

Philosophical questions in fine arts. Topics include the nature of art and aesthetic experience and criticism. Same as PHIL 320. MnTC Goal 6.

ART 338 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 [W] 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 102, 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 398 Gallery Management (3)

This course is an exploration of methods and practices involved in the presentation and interpretation of visual art work in both traditional and not-traditional spaces. Students will be required to analyze, synthesize and evaluate knowledge from several disciplines. Students must be of junior status or higher, have a keen interest in the promotion of the visual arts, and have basic knowledge of at least two of the following areas; printmaking, ceramics, drawing, painting, photography, sculpture, graphic design, art history, or have consent from the instructor.

ART 400A Individualized Studies in Ceramics (1-6)**Fall:** All Years**Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400B Individualized Studies in Graphic Design (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400C Individualized Studies in Painting (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400D Individualized Studies in Printmaking (1-6)**Fall:** All Years **Spring:** All Years

Further development of conceptual and formal qualities of creative work in a selected printmaking media such as relief printing, intaglio printing, lithography or serigraphy, with emphasis on consistency of small editions. The scope of the work and media will be determined in a contractual agreement between the student and instructor. Students are required to have earned 8 credits in ART 300D prior to enrolling in this class.

ART 400E Individualized Studies in Sculpture (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400F Individualized Studies in Photography (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400H Individualized Studies in Figure Drawing (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400I Individualized Studies (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400J Individualized Studies in Art Education (1-6)**Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

ART 400L Individualized Studies in Illustration (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 or ART 304A or 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.

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 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 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.

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.

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 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.

Prerequisite: ART 304F, ART 305F.

ART 405H Drawing Studio (4)**Fall:** Odd Years **Spring:** Odd Years

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 [W] Women and Art (4)****Fall:** Odd Years **Spring:** Odd Years

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 WS 408.

ART 410 Ancient Art (4)**Fall:** Odd Years **Spring:** Odd Years

History of architecture, painting, and sculpture in Ancient Greece, Etruria and Rome.

Prerequisite: ART 233, ART 234.**ART 411 Medieval Art (4)****Fall:** Odd Years **Spring:** Odd Years

History of the art and architecture of the Byzantine and Western Medieval cultures.

Prerequisite: ART 233, ART 234.**ART 420 Renaissance Art (4)****Fall:** Odd Years **Spring:** Odd Years

Renaissance and Mannerist art and architecture in Italy and Northern Europe.

Prerequisite: ART 233, ART 234**ART 421 Baroque Art (4)****Fall:** Odd Years **Spring:** Odd Years

Seventeenth- and Eighteenth-Century European painting, architecture, and sculpture.

Prerequisite: ART 233, ART 234**ART 425 Art History Abroad (2-4)****Fall:** Odd Years **Spring:** Odd Years**Prerequisite:** ART 233, ART 234**ART 430 Nineteenth Century Art (4)****Fall:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

Survey of architecture, painting and sculpture in America from Colonial times to the present.

Prerequisite: ART 233, ART 234.**ART 450 [W] 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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

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.

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.

Prerequisite: ART 404H, ART 405H.**ART 469 Internship (1-12)****Fall:** All Years **Spring:** All Years

A one semester self-directed exploration or professional experience with an artist, designer, illustrator, art museum or studio. A maximum of 12 internship credits may be applied to the degree.

ART 470 [W] Art & Archaeology of Ancient Egypt (4)**Fall:** On Demand **Spring:** On Demand

Exploration of the art and monuments of Egypt from the Neolithic Period to Late Antiquity.

ART 479 Art History Thesis (1-6)**Fall:** All Years **Spring:** All Years

Independent study in art history for senior thesis. Required for art history emphasis. Students need a minimum of six credits.

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.

ART 499 Topical Workshop (1-3)**Fall:** All Years **Spring:** All Years

This topical course is taught in workshop format and may be repeated when the topic varies.

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 [3L] 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. MnTC Goal 3.

AST 104 [3L] 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. MnTC Goal 3.

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 [3L] 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. Same as GEOS 360. MnTC Goal 3.

AST 365 Cosmology (3)

Spring: Even Years

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)

Spring: Odd Years

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: Odd Years

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. Same as PHYS 410.

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 210 Medical Terminology (1)

Spring: On Demand **Summers:** All Years

This course is designed to introduce the student to medical terminology. Students will learn medical terminology so that they can effectively communicate with other members of the health care team. Students will develop a foundation in medical terminology to increase their medical vocabulary.

AT 220 Care and Prevention of Injuries & Illnesses (3)

Fall: All Years **Spring:** All Years

This course will provide the student with the basic principles of prevention, recognition, immediate care, and treatment of common injuries and illnesses associated with physical activity. The student will also learn basic taping and wrapping techniques.

AT 225 Professional Rescuer CPR/AED and Basic First Aid (2)

Spring: All Years

This course is designed for students who will be working in a health care setting or a rescue setting such as first responder or lifeguard. Students will learn how to manage breathing, cardiac, and sudden emergencies and basic first aid techniques. Students will earn American Red Cross CPR/AED for the Professional rescuer and Standard First Aid certifications with successful completion of the course to the American Red Cross standards.

AT 320 Athletic Training Techniques (3)

Spring: All Years

The athletic training student will learn advanced taping techniques, fabrication, fitting, and maintenance of special pads, splints, and braces. Development and implementation of emergency management procedures and ambulatory methods for the injured will be covered. Admission into ATEP.

AT 321 Orthopedic Clinical Assessment: Upper Extremity (3)

Spring: All Years

This course is an in-depth study of orthopedic clinical assessment techniques involving the musculoskeletal and neurovascular structures of the upper extremity. Content includes the application of theoretical concepts with practical experience in assessment. To be taken concurrently with AT 321L.

Prerequisite: AT 322, AT 322L, AT 362.

AT 321L Orthopedic Clinical Assessment: Upper Extremity Lab (1)

Spring: All Years

Application and practical experience of theoretical concepts in assessment of the upper extremities. To be taken in concurrently with AT 321.

AT 322 Orthopedic Clinical Assessment: Lower Extremity (3)

Fall: All Years

This course is an in-depth study of orthopedic clinical assessment techniques involving the musculoskeletal and neurovascular structures of the lower extremity. Content includes the application of theoretical concepts with practical experience in assessment. To be taken concurrently with AT 322L. Admission into ATEP.

AT 322L Orthopedic Clinical Assessment: Lower Extremity Lab (1)

Fall: All Years

Application and practical experience of theoretical concepts in assessment of the lower extremities. To be taken concurrently with AT 322.

AT 323 Therapeutic Modalities (3)

Fall: All Years

This course will investigate the injury response process, the physiology and psychology of pain, development and delivery of treatment protocol, thermal agents, electrical agents, ultrasound, and mechanical modalities. To be taken concurrently with 323L.

Prerequisite: AT 322, AT 322L, AT 362.

AT 323L Therapeutic 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.

AT 324 Therapeutic Exercise (3)

Spring: All Years

A study of therapeutic exercise and conditioning techniques. The basis of injury rehabilitation, the goals and tools of rehabilitation, and rehabilitation techniques for specific injuries will be studied. To be taken concurrently with 324L.

Prerequisite: AT 323, AT 323L, AT 363.

AT 324L Therapeutic Exercise Lab (1)

Spring: All Years

The student will demonstrate and apply appropriate methods of therapeutic exercise and conditioning techniques. To be taken concurrently with AT 324.

Prerequisite: AT 323, AT 323L, AT 363.

AT 362 Athletic Training Practicum I (2)**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 320, AT 322 and AT 322L. Admission to the Athletic Training Education Program is (ATEP) required.

AT 363 Athletic Training Practicum II (2)**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 321, AT 321L, AT 323 and AT 323L.

Prerequisite: AT 362.**AT 364 Athletic Training Practicum III (2)****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 [W] 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.

Prerequisite: AT 324, AT 324L, AT 364.**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.

Prerequisite: AT 324, AT 324L, AT 364.**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. To be taken concurrently with AT 466.

Prerequisite: AT 420, AT 440, AT 465.**AT 465 Athletic Training Practicum IV (2)****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 V (2)****Spring:** All Years

Students enrolled in AT 466 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.**AT 469 Internship (2-12)****Fall:** All Years **Summer:** All Years

Designed to give athletic training students an opportunity to gain supervised clinical experience in a variety of athletic training settings. A maximum of 12 internship credits may be applied to the degree.

AT 490 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.

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 181P Varsity Softball (1)

Fall: All Years

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.

Biochemistry and Biotechnology

BCBT 100 [3] The Science of Cooking (3)

Fall: All Years **Spring:** All Years

This course will look at cooking from a scientific perspective to understand the food we eat and enjoy. Cooking may be the oldest and most widespread application of science. Students will use principles of biochemistry with some chemistry and biology to analyze food and investigate how cooking works. Students will also do several edible experiments and look at the science behind how it all works. Each week a different food will be explored. Topics include, but are not limited to, what makes a good experiment, death by chocolate, cheese making, the joys of hot sauce and salsa food biochemistry, the science of spice, and what is taste? This course includes a lab component. Students are expected to conduct three food experiments independent of class time. Learn to be a better cook by understanding food at the molecular level. MnTC Goal 3.

BCBT 200 Introduction to the Biochemistry and Biotechnology Industry (2)

Spring: All Years

This course is an introduction to the biochemistry and biotechnology industry including an overview of the different industry sectors. Topics covered include the scientific advances and economic impact of the biochemistry and biotechnology industry as well as the training requirements for entering the industry's workforce.

Prerequisite: One semester of Biosciences or Chemistry with lab.

BCBT 210 Introduction Vaccinology Seminar (1)

Fall: On Demand

This course will introduce students to the field of vaccinology and aspects of the bioscience industry related to vaccine discovery, production, and testing. Students will learn about the history of vaccines; the production of vaccines in a regulated environment; the benefits and concerns with vaccine use. This course is required for the Vaccinology Minor.

Prerequisite: One year of Biology or Chemistry courses.

BCBT 290 Topics in Biochemistry and Biotechnology (1)

Fall: On Demand **Spring:** On Demand

Exploration of a specific Biochemistry / Biotechnology topic. This course may be repeated as topic varies. Permission of instructor is required for registration.

BCBT 410 Vaccinology Senior Seminar (1)

Spring: On Demand

This course will cover the vaccine types, delivery, efficacy, and safety. Students will learn about the mechanism of action of different vaccines; traditional versus modern vaccine production methods, the process of clinical trials and approval of new vaccines; and discuss ethical concerns related to vaccine use. The course is required for the Vaccinology Minor.

Prerequisite: Junior standing in a Biosciences, Chemistry, or Biochemistry/Biotechnology major.

BCBT 420 Introduction to Working in a Regulated Biochemistry and Biotechnology Industry (4)

Fall: All Years

This course will cover the basic structure of the regulated workplace; introduction to regulatory affairs, introduction to regulatory language: FDA and USDA; an overview of good practices: good laboratory practices (GLP), good manufacturing practices (GMP) and good clinical practices (GCP); introduction to quality systems: quality control, quality assurance, ISO9000, and six sigma; introduction to validation. Student must be in junior standing in a bioscience or chemistry major.

Prerequisite: BCBT 200 or previous industry experience.

BCBT 425 Introduction to Validation in the Biochemistry and Biotechnology Industry (4)

Spring: All Years

This course provides an overview of validation in the biochemistry and biotechnology industry including biopharma, biomanufacturing, and basic and clinical research. Topics will include: 1) The science of validation; 2) Qualification, calibration, and certification of equipment; 3) Validation of biological assays; 4) Creation and Application of Validation Programs. Student must be in junior standing in a bioscience or chemistry major.

Prerequisite: BCBT 200 or previous industry experience.

BCBT 430 Introduction to Quality Assurance and Quality Control in the Biochemistry and Biotechnology Industry (4)

Fall: All Years

This course covers the origins, history of quality and the major concepts, theories, principles and founders; quality planning, assurance and improvement; the roles and responsibilities of quality assurance and quality control. Student must be in junior standing in a bioscience or chemistry major.

Prerequisite: BCBT 200 or previous industry experience.

BCBT 435 Ethics in the Biochemistry and Biotechnology Industry (3)**Spring:** All Years

This course will cover ethical issues in the Biochemistry and Biotechnology Industry ranging from legal requirements for notebooks, issues with data falsification and misrepresentation, and issues of genetic manipulation and cloning among others. Student must be in junior standing in a bioscience or chemistry major.

Prerequisite: BCBT 200 or previous industry experience.**BCBT 450 Molecular and Biophysical Chemistry (3)****Fall:** All Years

Biophysical study of molecular structures, biophysical techniques, and biological mechanisms. Includes the biological functions of cells, tissues and organisms in terms of the structure and behavior of biological molecules and techniques.

Prerequisite: CHEM 400, MATH 261, PHYS 160 or 200.**BCBT 469 Biochemistry and Biotechnology Internship (4)****Fall:** On Demand **Spring:** On Demand

This course is the required capstone experience for the Biochemistry and Biotechnology Certificate Program. An internship or work experience is required to complete the Biochemistry and Biotechnology Certificate. The experience can be a paid or volunteer experience. The experience needs to be approved by a faculty advisor in the Biochemistry and Biotechnology Certificate Program. Following the internship or work experience the student will be required to write a paper pertaining to the experience. Student must be in junior standing in a bioscience or chemistry major

Prerequisite: BCBT 200 or previous industry experience**BCBT 475 [W] Biotechniques: Research and Communication I (2)****Fall:** All Years

This course consists of both laboratory research and significant training on scientific communication. Students will work in teams to identify a faculty research mentor, prepare and present formal research proposals, design research experiments and begin a research project that will last the year. 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, BIOL 385L, CHEM 380, CHEM 410, CHEM 415.**BCBT 476 Biotechniques: Research and Communication II (2)****Spring:** All Years

This course consists of both laboratory research and significant training on scientific communication and is the second in a sequence for seniors in the Biochemistry and Biotechnology major. Students will continue to work on their research projects that were initiated in Biotechniques: Research and Communication I. Students will make oral presentations critically evaluating scientific literature, and finally prepare a poster to present the data from their research project.

Prerequisite: BIOL 347, BIOL 385, BIOL 385L, CHEM 380, CHEM 410, CHEM 415.**BCBT 477 Biotechniques: Proteomics and Advanced Protein Expression (2)****Fall:** On Demand **Spring:** On Demand

Introduction to proteomics and recombinant protein expression. Students will study advanced techniques involved in proteomics. Students will also study and work with expression of recombinant fusion proteins in bacteria or mammalian cultured cells. Includes advanced chromatography and use of automated chromatography systems including FPLC and HPLC.

Prerequisite: CHEM 405, CHEM 410.**BCBT 478 Biotechniques: Plant and Mammalian Tissue Culture (2)****Fall:** All Years

Introduction to plant and animal cell tissue culture techniques. Students will learn the basic theory of plant and cell tissue culture. Students will also work with both plant and mammalian cell cultures, transfect cell cultures and learn techniques involved in maintaining and manipulating cell cultures.

Prerequisite: BIOL 111, CHEM 360.**BCBT 479 Biotechniques: Advanced DNA and RNA Methodology (2)****Fall:** On Demand **Spring:** On Demand

Theory and practice in advanced DNA and RNA techniques with emphasis on isolation of RNA from cells and tissues and its subsequent use in diagnostic and analytical applications.

Prerequisite: CHEM 405, BIOL 385, BIOL 385L or concurrent enrollment.

BCBT 480 Biotechniques: Integrative Physiology & Surgical Instrumentation (2)**Fall:** On Demand **Spring:** On Demand

Introduction to in vivo physiologic measurement techniques.

Students will learn surgical instrumentation methods and techniques including animal handling, administering anesthesia and other chemical agents, and performing a basic surgery on a small rodent. Students will also work with an analog to digital data acquisition system for recording and analyzing physiologic parameters including pulsatile arterial blood pressure. Students will also learn skills and techniques associated with the care and maintenance of chronically instrumented animals used in integrative physiology studies.

Prerequisite: CHEM 210, PHYS 160 or PHYS 200, and BIOL 349 or BIOL 360.

BCBT 481 Biotechniques: Fluorescence Detection and Quantification (2)**Fall:** On Demand **Spring:** On Demand

The use of fluorescence makers has become a core technology in biology and chemistry research. This course will cover the basics of fluorophore function, fluorescence detection, and different means of qualitative and quantitative fluorescence measurement.

Prerequisite: BIOL 111, CHEM 360.

BCBT 482 Biotechniques: Biofuels (2)**Fall:** On Demand **Spring:** On Demand

An introduction to the biological concept of the growing field of Biofuels. In this section block students will learn the complex carbohydrates which make up the dynamic structure of the plant primary cell wall. They will also learn how to extract these carbohydrate moieties, conduct analytical and structural analyses, and also determine the potential energy incumbent within such carbohydrates.

Prerequisite: BIOL 111, CHEM 410, CHEM 415.

BCBT 490 Biotechniques: Topics in Biotechnology Techniques (2)**Fall:** On Demand **Spring:** On Demand

This course will cover a variety of topics or laboratory techniques that may include advanced recombinant DNA and RNA, a short course on cell culturing, surgical techniques, advanced microscopy or other Biochemistry & Biotechniques related subjects. This course will be a combination of two or more topics depending on demand.

Prerequisite: BIOL 111, CHEM 400, PHYS 200 or PHYS 160.

Biology

BIOL 100 [3] 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. MnTC Goal 2.

BIOL 104 [3] 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. MnTC Goal 3.

BIOL 109 [3L] Biology Today (3)

Fall: All Years **Spring:** All Years

This course offers an issues-oriented approach to the learning of biology. This course is designed to encourage critical evaluation of biological information providing students with a biological literacy that will enable them to make appropriate decisions affecting their own lives and the well-being of society. Twelve hours of laboratory experience will provide an understanding of the scientific method, the relationship between hypotheses and theories, data collection, analysis, and communication of results. For non-science majors; majors or minors in Biology should take BIOL 111. MnTC Goal 3.

BIOL 109 [3L] Biology Today Lab (1)

Fall: All Years **Spring:** All Years

Twelve hours of laboratory experience will provide an understanding of the scientific method, the relationship between hypotheses and theories, data collection, analysis, and communication of results. Course should be taken concurrently with BIOL 109. MnTC Goal 3.

BIOL 111 Cell Biology (4)

Spring: All Years

Fundamental concepts of the structure, function and reproduction of cells. Lab included.

BIOL 115 Organismal Biology (4)

Fall: 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.

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 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 236 [3L/11] Introduction to Microbiology (3)

Spring: All Years

Focuses on bacteria, viruses and other microbes and their influence on humans, especially on activities related to human health. Addresses the nature of scientific inquiry, along with key microbiology concepts. Lab is required. Basic laboratory skills include bacterial cultivation, aseptic technique, microscopy, bacterial quantization. Not intended for students majoring in the biological sciences. MnTC Goal 3.

Prerequisite: BIOL 102 or BIOL 104 or BIOL 111 or CHEM 110 or CHEM 150.

BIOL 275 Quantitative Biology (4)

Spring: All Years **Summer:** On Demand

The application of mathematics and statistics to biology. With lab that will emphasize computer applications. Two 1.15-hour lectures and one 3-hour lab each week.

Prerequisite: BIOL 111, BIOL 115, MATH 127 or placement.

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 [3L] Biology of Women (3)**Fall:** Odd Years **Spring:** Odd Years

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. Lab included. Same as WS 300.MnTC Goal 3.

Prerequisite: BIOL 104, BIOL 115.**BIOL 305 General Botany (4)****Spring:** 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 308 [10] Pacific Northwest Ecology (3)**

This three credit summer travel course allows students to study general ecological principles and regional natural history within the context of a variety of ecosystems in the Pacific Northwest, including coastal, alpine, freshwater stream, lake, and river, and temperate rainforest systems. The ecological consequences and the science behind specific environmental and conservation issues are explored. The concept of local and global sustainability is a pervasive theme throughout the course. MnTC Goal 10.

Prerequisite: One college-level science course.**BIOL 321 Invertebrate Zoology (3)****Fall:** Even 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 (4)****Spring:** Odd 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 326 Field Botany (3)****Summer:** On Demand

Identification and ecology of vascular plants with an emphasis on local flora and regional vegetation types. With lab and fieldwork. Students who have completed BIOL 226 may not enroll in BIOL 326.

Prerequisite: BIOL 115.**BIOL 335 [10] 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. MnTC Goal 10.

Prerequisite: one course in the sciences.**BIOL 341 [W] Genetics (4)****Fall:** 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 346 [10] An Ecological Perspective (3)****Fall:** On Demand **Spring:** On Demand

This course seeks to help students understand basic ecological principles, and to use these principles to understand our current environmental problems. An integration of scientific, economic, political and ethical considerations will help students to appreciate the policies and practices necessary to achieving a sustainable future. MnTC Goal 10.

BIOL 347 Plant Physiology (4)**Fall:** 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.

BIOL 348 Evolutionary Biology (3)**Spring:** All Years

Concepts, principles and evidence of evolutionary processes in biological systems.

Prerequisite: 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 BIOL 115, CHEM 110, 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, CHEM 210, CHEM 210L.**BIOL 360 Cellular and Molecular Physiology (4)****Fall:** All Years

This course involves the biological, biochemical, and molecular study of homeostasis at the cellular level. Key concepts include protein function, membrane function, signal transduction, electrical conduction, and cellular and intracellular movements.

Prerequisite: BIOL 111, CHEM 210.**BIOL 365 Developmental Biology (4)****Fall:** 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 115, BIOL 341.**BIOL 370 [10] Exploring Biology (3)****Fall:** All Years **Spring:** All Years

This course includes principles of biology with an emphasis on human biology, basic concepts in ecology, and the impact of specific environmental problems. The course includes two lab hours integrated into the bi-weekly meeting times. MnTC Goal 10.

BIOL 372 [W] 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, BIOL 115, CHEM 110, CHEM 210.**BIOL 385 Molecular Biology (3)****Spring:** 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.**BIOL 385L Biology 385 Lab (1)****Spring:** 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 Essentia 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 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 406 [9/W] DNA as Destiny: Genetics and Society (3)****Fall:** All Years **Spring:** All Years **Summer:** All Years

This course examines the various ethical, legal and social implications (ELSI) of genetic research and the applications of current and future applications of new genetic technologies. It is designed to provide students in any major with the necessary background to make informed decisions about these issues in a socially and civically responsible manner. Same as WS 406. MnTC Goal 9.

BIOL 430 Immunobiology (3)**Spring:** All Years

Covers the components and functioning of the immune system; emphasizes the immune system: emphasizes the immune system at the organismal level as well as the cellular and molecular levels. Listed prerequisites may be waived by consent of instructor.

Prerequisite: BIOL 350/350L.**BIOL 438 Medical Microbiology (3)****Spring:** All Years

A survey of the major bacterial and viral infectious disease agents and their associated diseases in humans.

Prerequisite: BIOL 350/350L**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 (4)**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. Consent of instructor.

BIOL 469 Internship (1-12)**Fall:** On Demand **Spring:** On Demand

A supervised work experience generally involving research in a governmental agency or the private sector. A maximum of 12 internship credits may be applied to the degree.

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 478 [W] Research Design (3)**Spring:** All Years

Students will identify a problem, complete a literature review of that topic, and design an experiment in the area of Ecology and Evolutionary Biology. This will include developing a question, conducting a literature search using current databases and techniques, develop an appropriate bibliography, examine ethical issues in research, understand plagiarism, and learn how to effectively communicate their research design through writing and presenting a research proposal. Research proposals will focus on an area of research that the student will pursue, in consultation with a faculty mentor, during BIOL 479 Advanced Research.

Prerequisite: BIOL 345, BIOL 385, MATH 244.**BIOL 479 Advanced Research (3)****Fall:** All Years **Spring:** All Years

A research course in which students will work individually to complete research in an area of Ecology and Evolutionary Biology as set forth by the instructor. Students will execute a research project (field and/or lab) based on the proposal written in BIOL 478, Research Design. They will learn how to follow a careful, systematic collection, analysis and interpretation of data. The course will culminate with presentation of the student's research finds in both oral and written formats.

Prerequisite: BIOL 478.**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 101 Business First Year Experience (1)

Fall: All Years

This course is designed to introduce students to the academic disciplines offered in the School of Business by requiring short essays, utilizing research, and providing guest speakers in accounting, finance, marketing, management, and international business. Speakers will provide advice on how students can get the most out of their college years and what the business world expects of new hires. Students will also learn how to develop a degree plan that will help track their progression through their years at MSUM.

BUS 365 Entrepreneurship (3)

Spring: All Years

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 231, 304, FINC 340, MGMT 380, MKTG 310 or ACCT 375.

Chemistry

CHEM 102 [3] Environmental Chemistry (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
A study of the fundamental applications of chemistry to environmental problems in the context of the social, political, economic, and ethical issues surrounding those problems. Students will formulate and test hypotheses by performing experiments and simulations in class and at home. They will communicate their findings and interpretations both orally and in writing. Suitable for those who have had no high school chemistry. Credit not applicable to a chemistry major or minor. MnTC Goal 3.

CHEM 105 [3L] Chemistry in Everyday Life (3)

Fall: All Years **Spring:** All Years
Students will study current issues in the chemical sciences and the chemical principles needed to understand those issues. The course is designed to give students the background necessary to make appropriate decisions affecting their own lives and the well-being of society. There will be a minimum of four modules per semester, each with its two hours of laboratory experience which will provide an understanding of the scientific method, the relationship between hypotheses and theories, data collection and analysis. Students will also work in groups on a final research project and will present that project and results during the scheduled final exam time. MnTC Goal 3.

CHEM 110 [3L] Fundamentals of Chemistry (3)

Fall: All Years
Students will study fundamentals of chemistry with laboratory applications. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts and demonstrate basic laboratory skills necessary for success in college-level science courses. MnTC Goal 3.

CHEM 110L [3L] Fundamentals of Chemistry Lab (1)

Fall: All Years
Lab component of CHEM 110 Fundamentals of Chemistry. MnTC Goal 3.

CHEM 150 [3L] General Chemistry I (3)

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. Must also register for CHEM 150L (Lab). One of the following is required: a minimum MnSCU math placement exam score, a minimum ACT mathematics score, or successful completion of MDEV 127. MnTC Goal 3.

CHEM 150L [3L] General Chemistry Laboratory I (1)

Fall: All Years **Spring:** All Years
Laboratory techniques of general chemistry including qualitative and quantitative analysis. Course should be taken concurrently with CHEM 150. Safety exam must be passed to remain in CHEM 150L or subsequent lab courses.

CHEM 180 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 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)

Fall: On Demand **Spring:** On Demand
This is a topical course and may be repeated when the topic changes.

CHEM 210 General Chemistry II (3)

Spring: All Years
General chemistry principles: kinetics, chemical equilibrium, acid-base chemistry, solubility equilibrium, thermodynamics, oxidation-reduction, electrochemistry, coordination chemistry, and nuclear chemistry. Should register for CHEM 210L to be taken concurrently.
Prerequisite: CHEM 150.

CHEM 210L General Chemistry II Lab (1)

Spring: All Years
This laboratory accompanies CHEM 210 General Chemistry II

CHEM 212 Principles of Biochemistry (4)

Summer: All Years
Chemistry for students interested in learning basic biochemistry topics. The course will focus on the major classes of biomolecules, metabolism and nucleic acids. Chemistry background in atomic structure, bonding, acid/base chemistry, organize groups and chemical reactions will be reviewed as needed for understanding of the biochemistry topics. Applications to real life situations will be made throughout the course.
Prerequisite: CHEM 110 or CHEM 150.

CHEM 290 Topics in Chemistry (1-3)**Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

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 304 [10/W] The Environment and You (3)****Fall:** All Years **Spring:** On Demand

This course explores the chemical underpinnings of a variety of environmental issues, such as pollution, energy production, and recycling, and how these issues play out in social, political, and economic arenas. Students will also have the opportunity to independently explore three topics in further detail. Credit not applicable to a chemistry major or minor. MnTC Goal 10.

CHEM 350 Organic Chemistry I (3)**Fall:** All Years

Introduction to the classification, structure, reactions, and reaction mechanisms of carbon compounds.

Prerequisite: CHEM 210**CHEM 355 Organic Chemistry I Lab (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 Organic Chemistry 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 II Lab (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 390 Topics in Chemistry (1-3)****Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

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.

Prerequisite: CHEM 350.**CHEM 405 [W] 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.**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.**CHEM 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: CHEM 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 II Lab (1)****Spring:** Odd Years

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 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. Same as BIOL 442 and PHYS 442.

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: CHEM 210, MATH 262, PHYS 161.**CHEM 455 Physical Chemistry I Lab (1)****Fall:** All Years

Measurement of thermodynamic properties of gases, thermochemistry, electrochemistry, transport properties, and treatment of experimental data.

Prerequisite: CHEM 210, MATH 262, PHYS 161.**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: CHEM 450, MATH 262.**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 Internship (1-12)****Fall:** On Demand **Spring:** On Demand

A supervised, practical experience in chemistry. A maximum of 12 internship credits may be applied to the degree.

CHEM 480 Analytical Chemistry II (4)**Fall:** Odd Years

Instrumental analysis involving chromatography, spectroscopy and electrochemical techniques. QA/QC addressed. (3 lecture credits, 1 lab credit).

Prerequisite: CHEM 380.**CHEM 490 Topics in Chemistry (1-3)****Fall:** On Demand **Spring:** On Demand

This is a topical course and may be repeated when the topic changes.

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 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 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 [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. MnTC Goal 7.

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 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 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 (1-3)

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.

Communication Studies

CMST 100 [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.

MnTC Goal 1.

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 110 [5] Introduction to Communication Studies (3)

Spring: 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. MnTC Goal 5.

CMST 111 [2] Argumentation and Debate (3)

Fall: 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. MnTC Goal 2.

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: On Demand **Spring:** On Demand

Practical experience in a performance activity in Communication.

CMST 210 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: All 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 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 [W] 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 Group and Team Communication (3)

Fall: All Years **Spring:** All Years

Presents theories of group and team communication, group dynamics, communication patterns, and role norms. 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 [6/W] Rhetorical Theory and Criticism (3)****Fall:** All 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. MnTC Goal 6.

CMST 311 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 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)**Fall:** On Demand **Spring:** On Demand

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 411 [9] Political Campaign Communication (3)**Fall:** Even Years

This class explores political campaign rhetoric by looking at the theories and research that contribute to our understanding of the process. The course discusses the current campaign in light of these theories and research, but also takes a broader view towards political campaigning in general. MnTC Goal 9.

CMST 414 Health Communication (3)**Fall:** Even Years

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:** All 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 (1-12)

Fall: On Demand **Spring:** On Demand

A supervised, practical experience in communication studies. A maximum of 12 internship credits may be applied to the degree.

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.

CMST 497 Independent Study (1-3)

Fall: On Demand **Spring:** On Demand

Independent reading or research allowing an individual student to explore a specific topic under faculty supervision.

Community Health

COMH 200 Introduction to Health Promotion and Public Health (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.

COMH 315 Health Agencies and Services (3)

Fall: All Years

A survey of community health agencies and programs at the national, state and local levels.

COMH 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. Same as HSAD 326.

COMH 401 Health Aspects of Aging (3)

Fall: All Years **Spring:** All Years

Models and theories of aging; environmental factors that affect physiological changes with age; life-style and aging processes.

COMH 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: ENGL 387, COMH 200, HLTH 340.

COMH 418 [8] Global Health Issues (3)

Fall: All Years

This course is designed to provide an introductory perspective of world health issues and policies. Professionals practice in the era of globalization, regardless of whether they personally plan to live or work in another country. An understanding of various factors influencing the health status of those living outside of the U.S. will be gained. This course is as much about how to study and think about global health problems and relationships as it is a course about specific global issues. MnTC Goal 8.

COMH 469 Internship (1-12)

Fall: All Years **Spring:** All Years

Designed for Community Health majors. Involvement in field work by placement in health related governmental, volunteer, non-profit, or commercial agencies. A maximum of 12 internship credits may be applied to the degree.

COMH 490 Topics in Community Health (1-4)

Fall: On Demand **Spring:** On Demand

This is a topics course which may be repeated as course content may vary.

Computer Science & Information Systems

CSIS 101 Introduction to the Internet (2)

Fall: On Demand **Spring:** On Demand

Introduces the student to the Internet and the World Wide Web. Topics include effective searching of the World Wide Web, security and safe web browsing, file transfer, electronic mail, real-time communication, and electronic commerce. While most students are already familiar with e-mail and web browsing, this course covers the basics and goes beyond them to make students safe and effective users of the numerous rich resources of the Internet and the World Wide Web.

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. Familiarity with Windows and word processing is required.

CSIS 104A Advanced Spreadsheet Topics (1)

Fall: All Years **Spring:** All Years

Understand and apply the advanced features of spreadsheet software such as templates, financial functions, importing/exporting data, solving complex problems, and creating and manipulating lists. Familiarity with spreadsheets is required.

CSIS 115 Introduction to MacOS X (1)

Fall: All Years **Spring:** All Years

An introduction to the effective and knowledgeable use of MacOS X and associated technologies.

CSIS 130 Introduction to Visual Programming (3)

Fall: On Demand **Spring:** On Demand

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.

CSIS 212 Client-Side Scripting (3)

Spring: On Demand

An introduction to client-side scripting. Scripts will be used to add interactivity to web pages.

Prerequisite: GCOM 266.

CSIS 221 Foundations of Computing (3)

Fall: All Years

An overview of computers and computer systems, from the gate level to the application layer, including an introduction to Boolean algebra and review of Boolean arithmetic. Includes an introduction to assembly language. Recommend completion of CSIS 152 or equivalent.

CSIS 251 Assembly Language Programming (3)

Fall: On Demand **Spring:** On Demand

Introduction to an assembly language, machine architecture and assembly language programming.

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 304 Databases (3)

Fall: All Years **Spring:** On Demand

This course provides a solid and practical foundation for the design, implementation, and management of database systems. The relational database model, relational databases, and Structured Query Language (SQL) are discussed in all details.

Prerequisite: CSIS 152.

CSIS 311 Server-Side Scripting (3)**Fall:** All Years **Spring:** On Demand

An introduction to server-side scripting. Scripts will be used to generate functional web pages. In addition, databases will be created and accessed through server-side scripts.

Prerequisite: Basic knowledge of HTML and CSS, and CSIS 140 or GCOM 266.

CSIS 316 [9] Ethics in the Information Age (3)**Fall:** All Years **Spring:** All Years

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. Same as PHIL 316. MnTC Goal 9.

CSIS 320 Architecture (4)**Spring:** All Years

This course builds on the concepts and techniques of CSIS 221. Basic principles of processor organization, machine instructions, addressing modes, memory management, and input/output operations.

Prerequisite: CSIS 152 and CSIS 221.

CSIS 335 Graphical User Interface Programming (3)**Fall:** On Demand

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 304.

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: CSIS 304.

CSIS 341 System and Network Administration (3)**Fall:** Even Years

This course is designed to provide students with an understanding of the activities and responsibilities of an administrator of an enterprise computer system and/or computer network. It focuses on the installation, configuration, and maintenance of system software, the management of users and resources and the deployment of network services. Students will investigate topics through research, discussion, and hands on practice. Junior standing in a CSIS major is required. Prior or concurrent enrollment in CSIS 349 is required.

CSIS 345 Analysis and Design of Information Systems (3)**Fall:** On Demand

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 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.

Prerequisite: CSIS 152.

CSIS 352 Advanced Concepts in Programming (3)**Fall:** On Demand **Spring:** On Demand

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 360 Linux Programming and Development Tools (3)**Fall:** All Years

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 152.**CSIS 405 E-Commerce Technology (3)****Fall:** On Demand **Spring:** On Demand

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 336.**CSIS 430 Operating Systems (4)****Fall:** On Demand **Spring:** On Demand

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. Prior or concurrent enrollment in CSIS 352 is required.

Prerequisite: CSIS 320.**CSIS 433 Design, Implementation and Support of Information Systems (3)****Fall:** On Demand **Spring:** On Demand

The course is dedicated to object-oriented design and implementation using contemporary design principles and patterns. The object-oriented approach of this course is based on Unified Modeling Language (UML). The course provides up-to-date coverage of adaptive and agile techniques and processes, and emphasizes layered architectures and Web development.

Prerequisite: CSIS 336, CSIS 340.**CSIS 435 Compilers (4)****Fall:** On Demand **Spring:** On Demand

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: CSIS 450, MATH 310.**CSIS 440 Computer Networks Software Concepts (3)****Spring:** Even Years

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 441 Network Security (3)****Spring:** Odd Years

This class addresses those fundamental issues confronting today's network administrator. Topics covered include LAN subnetting and router configuration, security policy development, data security and encryption, access control, packet filtering, perimeter protection, intrusion detection, and disaster recovery. The amount of time spent on each topic and on current issues will vary with the interests/composition of the class. Junior standing in a CSIS major is required.

Prerequisite: CSIS 341, 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 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)**Fall:** On Demand **Spring:** On Demand

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:** On Demand **Spring:** On Demand

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.

Prerequisite: CSIS 252.

CSIS 469 Internship (1-12)**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. Senior 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.

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 200 Surveying (3)

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. Same as ENG 200.

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 216 Construction Graphics (3)

Fall: All Years **Spring:** On Demand

Students will utilize parametric CAD software to complete a construction design project that will reinforce the lecture materials presented while emphasizing the design aspects 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 223 Construction Statics (3)

Fall: All Years

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 234.

CM 230 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 and equipment takeoffs. They will learn quantity survey best practices necessary to effectively estimate the cost of a construction project.

Prerequisite: Prior or concurrent enrollment in CM 216 and CM 220.

CM 254 Mechanical/Electrical Systems (3)

Fall: All Years

A study of mechanical and electrical construction, emphasizing principles of heating, cooling, ventilation, water supply, waste disposal, electrical distribution, and code requirements.

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 or MATH 234.

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 327 [10] Sustainability in the Built Environment (3)**Fall:** On Demand **Spring:** All Years

The purpose of the course is to provide an overview of living in a sustainable environment and what we can do as a society to measure our resource use. Also to encourage a change in our views regarding our limited resources and our overuse of the ecosystem by understanding our own culpability. Student awareness of energy conservation is modeled through construction principles that can be broadly applied to everyday lifestyle changes in our daily activities including where we live and where we work and the consumer choices we make in those environments. The U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) criteria are discussed. Major alternatives to LEED will also be covered. MnTC Goal 10.

CM 335 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 230. "Timberline" estimating software is utilized extensively as a basis for learning principles of computerized estimating. Job cost accounting procedures are emphasized.

Prerequisite: CM 230.**CM 340 Planning and Scheduling (4)****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. The students will identify required activities, resources and cost required to complete monitor a project throughout the construction process. Students will be required to complete both manual and computer scheduling assignments. Students will use "Primavera" scheduling software assigned projects.

Prerequisite: CM 230.**CM 350 Structural Design and Analysis (3)****Fall:** 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: CM 223 or ENG 243.**CM 365 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.

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 230, CM 325.**CM 434 Construction Cost Analysis (3)****Fall:** 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 335, CM 340.**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 335, CM 340, CM 370.**CM 469 Internship (1-12)****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 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 460.

Criminal Justice

CJ 111 [2] American Criminal Justice (3)

Fall: All Years **Spring:** All Years

The importance of race, ethnicity, and gender in criminal justice processes. MnTC Goal 2.

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 201 Introduction to Juvenile Justice (3)

Fall: All Years **Spring:** All Years

This course provides an overview of historical and contemporary perspectives of juvenile justice within the United States. Specifically, this course examines: (1) the development of the U.S. juvenile justice system, (2) definitions and measurements of juvenile delinquency, (3) controversial juvenile justice practices and policies, and (4) the complex relationship between juvenile justice, race/ethnicity, gender, and socio-economic status.

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. Same as SOC 300.

CJ 301 Delinquent Behavior (3)

Spring: All Years

Delinquent behavior and programs for its prevention, treatment and control. Same as SOC 301.

Prerequisite: SOC 110 or SOC 220.

CJ 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. Same as SOC 303.

Prerequisite: CJ 200 or SOC 110.

CJ 304 Community Corrections (3)

Fall: On Demand **Spring:** On Demand **Summer:** On Demand

Sociological analysis of community corrections, emphasizing probation and parole. Same as CJ 304.

Prerequisite: CJ 200 or SOC 110.

CJ 309 [W] 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 312 Criminal Investigation (3)

Spring: All Years

This course will cover a variety of topics that would assist law enforcement officers in conducting investigations.

CJ 335 Criminal Law (3)

Fall: All Years

Substantive criminal law, development and meaning of principles of criminal law, current issues. Same as POL 335.

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. Same as POL 337.

CJ 380 [8] Global Criminal Justice (3)

Fall: On Demand **Spring:** On Demand

Research, commentary, and theory in international crime and social control. Particular attention is given to social inequities and human rights. MnTC Goal 8.

CJ 385 [9] Crime, Justice, and Media (3)

Spring: All Years

An exploration of how justice ideals are represented in print, broadcast, and Internet Media. Special attention is given to ethical codes and dilemmas for officers of the court. MnTC Goal 9.

CJ 390 Topics in Criminal Justice (1-3)

Fall: On Demand **Spring:** On Demand

This is an upper division course with varying topics from the discipline of criminal justice.

CJ 400 Seminar in Criminal Justice (1-4)

Fall: All Years **Spring:** All Years

An in-depth analysis of a topic in criminal justice. Students may apply up to 8 credits to the degree.

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 (1-12)

Fall: All Years **Spring:** All Years

A supervised, practical experience in criminal justice. A maximum of 12 internship credits may be applied to the degree. 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.

Economics

ECON 100 [2] 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. MnTC Goal 2.

ECON 202 [5] Principles of Economics I: Micro (3)

Fall: All Years **Spring:** All Years

An introductory study of the price system, resource allocation, and income distribution. MnTC Goal 5.

ECON 204 [5] 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. MnTC Goal 5.

ECON 300 [8] Global Economic Issues (3)

Fall: All Years **Spring:** All Years

An introductory study of global economic issues focusing on the experience of Asia, African, or Latin America. Topics include the role and history of international economic institutions, the impact of trade on participating nations, views of writers from selected regions, economic development, demographic trends, foreign investment, and international distribution of income and wealth. This course will not fulfill the economics major requirements. MnTC Goal 8.

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 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 204.

ECON 305 [7/W] The Economics of Poverty, Discrimination, and Inequality (3)

Fall: All Years **Spring:** All Years

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. Same as WS 305. MnTC Goal 7.

ECON 315 [W] 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 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 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 335 Comparative Systems and Economic Development (3)

Fall: Odd Years **Spring:** Odd Years

A survey of alternative economic systems and theories of economic development. Examines the relationship between economic development of countries and their economic systems.

Prerequisite: ECON 300.

ECON 350 Public Finance (3)

Fall: All Years

Study of taxes and expenditures of federal, state, and local governments and their effects upon economic activity, fiscal policy and national debt.

Prerequisite: ECON 204.

ECON 370 [W] Quantitative Economic Analysis (3)

Fall: All Years

Study of quantitative techniques employed in economics.

Prerequisite: 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: Odd Years **Spring:** Odd Years

Survey of the economic history of the United States from the colonial period to the present.

Prerequisite: ECON 204.

ECON 415 [W] Industrial Organization and Public Policy (3)**Spring:** All 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 204.**ECON 416 [W] Labor Economics (3)****Spring:** All Years

Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation. Same as MGMT 416.

Prerequisite: 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 204.**ECON 430 Managerial Economics (3)****Fall:** Odd Years **Spring:** Odd Years

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. A maximum of 12 internship credits may be applied to the degree.

ECON 492 Individual Study in Economics (1-3)**Fall:** Odd Years **Spring:** Odd Years

Individual inquiry in economics. May be repeated for credit.

Prerequisite: ECON 204.**ECON 497 Undergraduate Research in Economics (1-3)****Fall:** Odd Years **Spring:** Odd Years

Individual inquiry in economics resulting in a research paper. May be repeated for credit.

Prerequisite: ECON 204.**ECON 498 [W] Economics Seminar (3)****Fall:** Odd Years **Spring:** Odd Years

A capstone course requiring a research paper using tools of economic analysis, and a written and oral presentation.

Education

ED 205 Introduction to Education (3)

Fall: All years **Spring:** All Years

This course explores education in America from early childhood through high school graduation. This course will introduce the philosophical foundations, learning environments, social contexts, curriculum and instruction, standards and assessment, as well as contemporary issues related to the field. The roles, responsibilities and daily life of teachers, schools and students will be examined. This course includes 40 hours of experience in the field.

ED 294 Educational Psychology (3)

Fall: All Years **Spring:** All Years

Explains psychological theory and research related to learning, motivation, cooperation, and instruction in diverse cultures and 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 205, ED 205E, ED 294.

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 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 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 that meets on the campus is part of this course. Students will take the course concurrently with or following a discipline-specific methods course in the major field of study.

Prerequisite: ED 205, SPED 225.

ED 401 Managing and Monitoring Student Learning (2)

Fall: Odd Years **Spring:** Odd Years

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: Odd Years **Spring:** Odd Years

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)

Summer: 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: Odd Years **Spring:** Odd Years

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 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: Odd Years **Spring:** Odd Years

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 423 Design of Online Instruction (2)**Spring:** All Years

Participants in this course will create components of an online course. Educators will learn how to design the course from the ground up including identifying program outcomes and course competencies, designing learning activities, and creating and evaluating assessment tasks. The course design process will be focused on designing for the unique requirements of the online environment.

ED 425 Methods of Computer-mediated Communication in Education (2)**Fall:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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 434 Assessment Strategies for Technology-Enhanced Curricula (2)**Fall:** On Demand **Spring:** On Demand

This course explores issues, strategies, methods, and techniques of assessment in technology-based curricula.

ED 435 Infusing Technology into Mathematics (2)**Fall:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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. To be taken concurrently with student teaching.

Prerequisite: ED 310.**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. For K-12 education majors. To be taken concurrently with student teaching.

Prerequisite: ED 310.**ED 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.

Prerequisite: SPED 225.**ED 451 Middle School Philosophy (2)****Fall:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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 310, ED 398.**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 310, ED 398.**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 469 Internship (1-12)**Fall:** Odd Years **Spring:** Odd Years

Opportunities for on-the-job experience. Appropriate for students with individualized majors. A maximum of 12 internship credits may be applied to the degree.

ED 470 Educational Alternatives for Learning (1-2)**Fall:** Odd Years **Spring:** Odd Years

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. May be repeated up to six credits.

Elementary and Early Childhood Education

EECE 190 Topics in Elementary and Early Childhood Education (1-3)

Fall: Odd Years **Spring:** Odd Years

This is a topics course and may be repeated as topics vary.

EECE 220 Foundations of Early Childhood & Early Childhood Special Education (3)

Fall: All Years **Spring:** All Years

This is an introductory course to the field of the early childhood and early childhood special education. Basic aspects of programming for children from birth to age eight will be studied. Referral and intervention procedures are included as well as various educational and service delivery models. Terminology, key professionals, historical and contemporary issues are included.

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.

Prerequisite: Prior or concurrent enrollment in EECE 230.

EECE 269 Field Experience: (1-3)

Fall: Odd Years **Spring:** Odd Years

Opportunities to work with students and in selected settings.

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 an 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 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 205, ED 205E, ED 294.

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 220, 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 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 205, ED 294.

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:** Odd Years **Spring:** Odd Years

Assist pre-service and in-service 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 341.**EECE 426 Primary Methods: Math, Science, Social Studies (3)****Fall:** All Years **Spring:** All Years

A methodology course for early childhood majors to explore constructivist approaches to hands-on discovery learning of math, science, and social studies in the primary grades of 1-3.

Prerequisite: EECE 333, MATH 303.**EECE 428 Building Partnerships (3)****Fall:** All Years **Spring:** All Years

Frameworks for building partnerships in education are explored with particular focus on family, colleagues and community. Strategies for building partnerships when working with children with special needs, typically developing children and children of various cultural backgrounds are addressed. Resources, communication, consultation, and cross-cultural competence are included.

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 291.**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 220, EECE 234, EECE 333.**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. To be taken concurrently with EECE 469C.

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 [W] 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 225.**EECE 445 Remedial and Corrective Reading (3)****Fall:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

Supervised practice in remediating children with reading disabilities at the primary, intermediate and secondary levels.

Prerequisite: EECE 445, SPED 445.**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 (1-12)**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.

EECE 473 Practicum in Early Childhood Education (2-10)**Fall:** Odd Years **Spring:** Odd Years

Supervised practicum experience with pre-kindergarten 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 [W] Contemporary Issues and Ethics in Early Childhood Education (2)**Fall:** 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)

Spring: On Demand

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. Same as TECH 113.

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)

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.

Co-requisite: ENG 200.

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: On Demand

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: On Demand

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.

English

ENGL 101 [1B/W] 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. MnTC Goal 1.

ENGL 102 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 Freshman Composition and Literature (1-2)

Fall: Odd Years **Spring:** Odd Years

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. MnTC Goal 1.

ENGL 111 [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. MnTC Goal 1.

ENGL 112 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. MnTC Goal 2.

ENGL 163 [2] Who Is a Hero? (3)

Fall: Odd Years **Spring:** Odd Years

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. MnTC Goal 2.

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. MnTC Goal 6.

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.

ENGL 201 [11/W] 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. Must have successfully completed ENGL 101 or an acceptable placement score. MnTC Goal 6.

ENGL 202 [6/W] English Composition and Literature (3)**Fall:** All Years **Spring:** All Years

The First-Year Composition and Literature 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. MnTC Goal 6.

ENGL 211 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 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 Introduction to Shakespeare (3)****Fall:** Odd Years **Spring:** Odd Years

A study of representative plays and poems.

Prerequisite: ENGL 101.**ENGL 234 Mythology (3)****Fall:** Odd Years **Spring:** Odd Years

Introduction to the great myths of Greece and Rome and their influence upon later literature. MnTC Goal 6.

Prerequisite: ENGL 101.**ENGL 235 [8] World Mythology (3)****Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

Students will explore mythological systems from around the world focusing upon the historical “interdependence of nations and peoples” and developing the “ability to apply a comparative perspective to the cross-cultural social, economic and political experiences” embodied and explored by these mythologies.

ENGL 240 Masterworks (3)**Fall:** Odd Years **Spring:** Odd Years

Extensive reading in a particular literary genre—novel, drama, or poetry.

Prerequisite: ENGL 101.**ENGL 241 Modern American Literature (3)****Fall:** Odd Years **Spring:** Odd Years

Selected major figures of 20th-century American Literature.

Prerequisite: ENGL 101.**ENGL 246 Women in Literature (3)****Fall:** Odd Years **Spring:** Odd Years

A study of the various ways women are depicted in imaginative literature and expository prose. Readings vary. Same as WS 246.

Prerequisite: ENGL 101.**ENGL 248 Introduction to American Ethnic Literature (3)****Fall:** Odd Years **Spring:** Odd Years

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 280 [7] 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. MnTC Goal 7.

ENGL 282 [6] 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. MnTC Goal 6.

ENGL 285 [W] Scriptwriting (4)**Fall:** Odd Years **Spring:** Odd Years

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 286 [W] Practical Writing (3)****Fall:** Odd Years **Spring:** Odd Years

Study and practice in writing non-academic material linked to the experiences of daily life and to practical career situations.

Prerequisite: ENGL 101.**ENGL 288 [W] Introduction to Creative Writing (3)****Fall:** Odd Years **Spring:** Odd Years

Practice in the writing of poetry, short fiction, or drama.

Prerequisite: ENGL 101.**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 301 Medieval British Literature (3)****Fall:** Odd Years **Spring:** Odd Years

Study of selected major authors and works, sometimes in comparison with European counterparts, exclusive of Chaucer.

Prerequisite: ENGL 101.**ENGL 302 English Renaissance Literature (3)****Fall:** Odd Years **Spring:** Odd Years

Study of English Renaissance authors, themes, and genres from 1485 through 1649.

Prerequisite: ENGL 101.**ENGL 303 Literature of the English Enlightenment (3)****Fall:** Odd Years **Spring:** Odd Years

Study of English authors, genres, and themes from the English Restoration to the end of the eighteenth century.

Prerequisite: ENGL 101.**ENGL 305 The Romantic Period (3)****Fall:** Odd Years **Spring:** Odd Years

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 306 The Victorian Period (3)****Fall:** Odd Years **Spring:** Odd Years

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 307 Twentieth Century British Literature (3)****Fall:** Odd Years **Spring:** Odd Years

Study of selected major British authors from the 1890s to the present.

Prerequisite: ENGL 101.**ENGL 309 Studies in American Literature (3)****Fall:** Odd Years **Spring:** Odd Years

Study of selected subjects, movements, or genres.

Prerequisite: ENGL 101.**ENGL 314 Topics in Shakespeare (3)****Fall:** All Years **Spring:** All Years

The course emphasizes the skills of close reading as well as understanding Shakespeare's texts within the context of early modern history and culture. In addition to reading a variety of Shakespeare's comedies, tragedies, and romances, students will study videotaped performances of select passages and scenes in order to analyze and discuss the many different and differing ways the plays can have been recreated. Students may repeat the course as the covered play texts change.

Prerequisite: ENGL 200.**ENGL 314T Shakespeare: Theory (1)****Fall:** All Years **Spring:** All Years

An examination of Shakespeare's plays from a number of critical perspectives, including New Criticism, New Historicism, Post-colonialism, Queer Theory, Feminism, and others. Students should be simultaneously enrolled in English 314.

Prerequisite: ENGL 200.**ENGL 317 [8] Personal Lives, National Affairs (3)****Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

This course will examine a variety of texts that show the intersection of personal lives and national affairs within a range of different cultural and global settings. MnTC Goal 8.

ENGL 321 Early American Literature (3)**Fall:** Odd Years **Spring:** Odd Years

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 322 19th-Century American Literature (3)****Fall:** Odd Years **Spring:** Odd Years

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 323 20th-21st Century American Literature (3)**Fall:** Odd Years **Spring:** Odd Years

Study of authors, genres, or literary movements from 1900-present.

Prerequisite: ENGL 101.**ENGL 325 [6] Literature for Young Readers (3)****Spring:** All Years

Literature for Young Readers is a concentrated reading course designed to impart the knowledge necessary for an appreciation and understanding of children's literature, its historical development, major genres in the field, contemporary issues and debates about children and literature written for them, and the literary terms relevant to the study of literature written for children. In addition to reading classics and the critically acclaimed works of both fiction and nonfiction by modern writers, students will study poetry, folklore, mythology, and examine the relationship between illustration and text (picture books and graphic novels). MnTC Goal 6.

ENGL 330 Individual Authors (2-3)**Fall:** Odd Years **Spring:** Odd Years

Intensive study of one or two significant authors.

Prerequisite: ENGL 101.**ENGL 332 Film and the Novel (3)****Fall:** Odd Years **Spring:** Odd Years

Comparative analysis of major novels and their screen adaptations. Focus on aesthetic and interpretative similarities and differences.

Prerequisite: ENGL 101.**ENGL 340 Genre Studies (3)****Fall:** Odd Years **Spring:** Odd Years

Extensive reading in a particular literary genre—short story, novel, poetry, drama, or epic.

Prerequisite: ENGL 101.**ENGL 343 [W] 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.

ENGL 344 [W] 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.

ENGL 352 [7] 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. MnTC Goal 7.

ENGL 354 Non Fiction Writing (3)**Fall:** Odd Years **Spring:** Odd Years

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 356 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 101.**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 371 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 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, August Wilson, Toni Morrison, Maxine Hong Kingston, and Louise Erdrich.

Prerequisite: ENGL 200.

ENGL 380 [8] World Literature (3)**Fall:** Odd Years **Spring:** Odd Years

Study of selected world masterpieces grouped by theme or genre.
MnTC Goal 8.

ENGL 387 [W] Technical Report Writing (4)**Fall:** Odd Years **Spring:** Odd Years

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 388 [W] Creative Writing (3)****Fall:** Odd Years **Spring:** Odd Years

The writing of poetry, short fiction, plays, or film. Partly a dialogue on contemporary writing, but mainly workshop. May be repeated up to three times for credit if the genre changes.

Prerequisite: ENGL 285 or 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 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 395 [W] 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 402 Introduction to Publishing (3)****Fall:** Odd Years **Spring:** Odd Years

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 407 [10] Big City, Big Impact (3)**Fall:** Even Years **Spring:** Even Years

This course uses a variety of texts for an exploration of the environmental and social impacts of big city life, as shown by various writers. MnTC Goal 10.

ENGL 409 Studies in American Literature (3)**Fall:** Odd Years **Spring:** Odd Years

Study of selected topics, movements, or genres.

Prerequisite: ENGL 101.**ENGL 410 Studies in British Literature (3)****Fall:** Odd Years **Spring:** Odd Years

Study of selected topics, movements, or genres.

Prerequisite: ENGL 101.**ENGL 411 Chaucer (3)****Fall:** Odd Years **Spring:** Odd Years

Study of selected major works and their background.

Prerequisite: ENGL 101.**ENGL 413 [W] Writing About Art (3)****Fall:** Even Years **Spring:** Even Years

This course features writing about art, the visual arts particularly. It is a writing intensive course where we build and refine skills in writing about art, and we write about art to inform, persuade, clarify and account for our responses to works of art. All formal writing assignments written in response to gallery visits in the F/M area will pass through an in-class edit for the purposes of developing plans for revision of the writing.

Prerequisite: ENGL 101.**ENGL 417 [9] Issues of Death & Grief: Creative Non-Fiction of Life & Loss (3)****Fall:** Odd Years

Within the gravities of life and death, love and grief, there is a search for understanding and healing. This course is designed to help students understand that death and grief present choices and changes that face us as citizens within a community of loved ones. During this course, students will consider the importance of care and customs surrounding death and dying and the value of honest dialogue when grief is set upon individuals struggling with loss. This course will develop students' awareness of the ethical dimensions of personal decisions (for self and others in the realm of loss, the business of mourning and the pain of grief) and to cultivate their deliberative skills through respectful engagement with others whose views differ. MnTC Goal 9.

ENGL 423 [W] Writing for Children (3)**Fall:** Odd Years **Spring:** Odd Years

This course is a writing intensive course that focuses on writing for children and adolescents. Students will read several texts written for young readers and analyze the craft of writing in each. Students will also complete practice writing exercises that are specific to the conventions of genres in children's literature, workshop and revise major writing assignments, and produce a final polished project of a collection of poetry, a first chapter in fiction, or a short story.

ENGL 430 Individual Authors (3)**Fall:** Odd Years **Spring:** Odd Years

Intensive study of one or two significant authors.

Prerequisite: ENGL 101.**ENGL 435 [10] Ecocriticism (3)****Fall:** All Years

Ecocriticism is a fairly recent cultural and literary development, the term coined in the late 1970s. This course introduces students to representative ecocritical texts that study the relationship between humans and the environment. Significant attention will be devoted to issues of sustainability, eco-literacy, and the efficacy of literary expressions of environmental value.

ENGL 450 Critical Traditions (3)**Fall:** Odd Years **Spring:** Odd Years

Principal works of literary aesthetics and criticism from selected periods in history.

Prerequisite: ENGL 101.**ENGL 462 Practicum in Publishing (3)****Fall:** All Years

This course is designed to familiarize students to the working functions of a small press literary publishing house through lectures, demonstrations, and supervised group activities such as participating on editorial book teams, writing teacher guides for the website for New Rivers Press books, developing marketing plans, reading tours, distributor marketing packets etc. All projects are presented in class to foster a broader class understanding of the overall activities of a small press.

Prerequisite: ENGL 402 or MC 402.**ENGL 463 History of the English Language (3)****Fall:** Odd Years **Spring:** Odd Years

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 469 Internship (1-12)****Fall:** Odd Years **Spring:** Odd Years

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 480 Advanced World Literature (3)**Fall:** Odd Years **Spring:** Odd Years

Intensive study of selected world masterpieces from one language, in translation.

Prerequisite: ENGL 101.**ENGL 485 Topics: Authors (1-2)****Fall:** Odd Years **Spring:** Odd Years

Study of selected authors. May be repeated when topic changes.

Prerequisite: ENGL 101.**ENGL 487 [W] Advanced Technical Report Writing (4)****Fall:** Odd Years **Spring:** Odd Years

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 [W] Advanced Creative Writing (4)****Fall:** Odd Years **Spring:** Odd Years

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 [W] 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 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 494 Teaching English in Middle/Junior High (3)****Fall:** All Years

Review 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 495 Advanced Study in Language or Literature (1-3)****Fall:** Odd Years **Spring:** Odd Years

Study of selected topics, individual authors, genres or movements in linguistics or in American, British or world literature. The course may be offered as a seminar, as an independent study, or as an adjunct to another class taught by the same instructor.

Repeatable when subject matter varies.

Prerequisite: ENGL 101.**ENGL 496 [W] 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.

Exchange

EXCH 351 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 A Topical Course in Theatre Literature (1)

Spring: All Years

A topical course which covers various periods in Theatre literature.

EXCH 353 A Topical Course in Literature (1)

Spring: All Years

A topical course which covers various topics in literature.

EXCH 354 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 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 A Topical course in Science and Discovery (1)

Spring: All Years

A topical course which covers various periods in Science and Discovery.

EXCH 357 A Topical Course in Music (1)

Spring: All Years

A topical course which covers various periods in the history of Music.

EXCH 358 A Topical Course in Women's Studies (1)

Spring: All Years

A topical course which covers various periods in Women's history.

EXCH 359 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.

EXCH 372 [5/W] Eurospring History and the Social Sciences (3)

Spring: All Years

Guided by the tour leader, students will synthesize their overall experiences, including prep course briefings, field trips and personally planned Easter break and museum visits and the Grand Tour in order to meaningfully answer broad thematic questions central to the Dragon Core learning outcomes for History and the Social Sciences. MnTC Goal 5.

EXCH 373 [6] Eurospring Humanities: Art, Literature and Philosophy (3)

Spring: All Years

Guided by the tour leader, students will synthesize their overall experiences, including prep course briefings, field trips and personally planned Easter break and museum visits and the Grand Tour in order to meaningfully answer broad thematic questions central to the Dragon Core learning outcomes for the Humanities. MnTC Goal 6.

Film Studies

FILM 100 Technical Training: Video Production (1)

Fall: All Years **Spring:** All Years

This course is designed to develop a thorough understanding of the technical equipment needed for the first level Video Production course. This includes detailed training in the operation of video editing software, title graphics software used in video postproduction, video camera operation and camera support equipment, and the tools of video lighting. Individual sessions will focus on specific types of equipment and development of proficient use in the production of video projects. Concurrent registration in FILM 172 is required.

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 172 Video Production (3)

Fall: All Years **Spring:** All Years

Theory of and practical experience with video production techniques. Electronic Field Production and post production techniques will be stressed when doing out of class projects. Concurrent registration with FILM 100 is required.

FILM 180 [6] Understanding Movies (3)

Fall: 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. MnTC Goal 6.

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 200 Technical Training: Beginning Filmmaking (1)

Fall: All Years **Spring:** All Years

This course is designed to develop proficiency in the operation of film equipment needed to produce beginning level 16mm dual system sound, black and white reversal film projects. This includes 16mm film equipment, lighting and sound equipment. Concurrent registration in FILM 284 required.

Prerequisite: FILM 172.

FILM 202 Practicum (1)

Fall: All Years **Spring:** All Years

Practical experience in a performance activity in Film.

FILM 232 Principles of Make-up for Stage and Film (2)

Fall: Odd Years **Spring:** Odd Years

Techniques and styles of make-up used in stage and film productions. Same as THTR 232.

FILM 270 Introduction to Telecommunications and Film (3)

Fall: On Demand **Spring:** On Demand

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 280 History of Film (3)

Fall: All Years

A chronological approach to the artistic and technical development of the American motion picture medium. Special attention to be paid to the historical context in which the American film developed. A studio screening/discussion session will be included in each class period where influential films are viewed and discussed. Concurrent registration in FILM 280S is required.

FILM 280S Studio in Film History (1)

Fall: All Years

Studio credit to accompany the Film History course. Concurrent registration in FILM 280 is required.

FILM 281 [6] Film Appreciation (3)

Spring: All Years

Film Appreciation is the study of the Art of Film through an examination of major American film directors, their most influential motion pictures, and the historical development of the film director's art and classic movie genres. The course traces the evolution of directorial styles and the development of film genre. Creative approaches to the medium are examined both artistically and critically. Innovative films are viewed, discussed, and evaluated. Students learn and use the various schools and methods of film criticism, develop an understanding of aesthetic qualities in film and apply them to their writing assignments. Concurrent registration in FILM 281S is required. MnTC Goal 6.

FILM 281S Studio in Film Appreciation (1)**Spring:** All Years

Studio to accompany the Film Appreciation course. Concurrent registration in FILM 281 is required.

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. Concurrent registration in FILM 200 required.

Prerequisite: FILM 100, FILM 172.**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 372 Editing Techniques (3)**Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

This course will focus on the post-production phase of filmmaking with emphasis placed on editing theories and techniques. Projects will provide hands-on editing experience. The Apple Pro Certification process will be introduced.

Prerequisite: FILM 172.**FILM 375 Animation Techniques (3)****Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

This course introduces students to traditional animation techniques such as pixilation, cut-out animation, object, line, as well as other techniques. Students will begin with the basics of frame manipulation in time-based media. Through hands-on experience, students will explore animation practices while making connections to film theory and aesthetics.

Prerequisite: FILM 152.**FILM 378 Techniques of Producing (3)****Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

This course will survey the craft areas of Producing, Production Management, and Production Coordination. Students will learn practical skills as well as larger concepts behind this key area of motion picture creation.

Prerequisite: FILM 152, FILM 284.**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 383 Animation Techniques (3)**Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

This course is an exploration of the complex intersection between film and a variety of other literary and media texts. Selected poems, novels, short stories, plays, video games, etc are analyzed in relation to film versions of the same works in order to gain an understanding of the possibilities – and problems – involved in the adaptation to film.

Prerequisite: FILM 180 or FILM 281 or permission of instructor.**FILM 384 Techniques of Film Directing (4)****Fall:** All Years **Spring:** All Years

Theory and practice of developing artistic and technical skills in directing motion pictures. Special emphasis given to the importance of the director/actor relationship. Major filmmaking projects include scene study work with crews and actors.

Prerequisite: FILM 284.**FILM 385 Survey of International Cinema (3)****Fall:** Odd Years

A study of major world cinemas, including influential filmmakers, screen personalities, and motion pictures. The interrelationship of national film movements and how they impact world cinema. Representative work from European, Eastern, and Third World cinema will be presented. A screening/discussion portion of the course will focus on important films of the world cinema which will be discussed, and critically evaluated. Concurrent registration in FILM 385S is required.

FILM 385S Studio in International Cinema (1)**Fall:** Odd Years

Studio credit to accompany the International Cinema course. Concurrent registration in FILM 385 is required.

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 400 Technical Training: Intermediate Filmmaking (1)**Fall:** All Years **Spring:** All Years

This course is designed to develop a thorough understanding of the technical equipment needed for the Intermediate level 16mm sync sound filmmaking course. This includes detailed training in the operation of 16mm film cameras including: Arriflex BL cameras and camera support equipment such as: tripods, dollies, jib arms etc., and the tools of film lighting and grip training. Extensive training in the use of double system sync sound recording methods will also occur. Individual sessions will focus on specific types of equipment and developing proficient use in the production of film projects. Concurrent registration in FILM 484 is required.

FILM 401 Technical Training: Advanced Filmmaking (1)**Fall:** On demand **Spring:** On Demand

This course is designed to develop proficiency in the operation of film equipment needed to produce advanced level 16mm sync sound, color negative film projects. These include advanced 16mm film equipment, lighting and sound equipment. Concurrent registration in FILM 485 required.

FILM 402 Senior Seminar Project Development (1)**Fall:** All Years

A preparatory practicum class involved in pre-production activities designed to facilitate the senior thesis project class (Film 496) taken during the spring semester.

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 film study. May be taken more than once if content is substantially different.

FILM 469 Internship (1-12)**Fall:** On Demand **Spring:** On Demand

A supervised, practical experience in film studies. A maximum of 12 internship credits may be applied to the degree.

FILM 470 Undergraduate Teaching Assistant (1)**Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

Students will serve as a teaching assistant for select Film Studies courses under the guidance of a faculty mentor. May be repeated up to three times for credit. Approval of Faculty Mentor or Film Studies Chairperson required.

FILM 472 Advanced Video Production (3)**Fall:** On Demand

Produce a series of programs to be aired. Includes all levels from writing and casting through taping and post-production.

FILM 480 [W] 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 Intermediate Filmmaking (3)****Fall:** All Years **Spring:** All Years

This course is an advanced production course that provides an introduction to and foundation in techniques of double system synchronous sound 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 readings, lectures, screenings, demonstrations and individual and group film projects, students will gain a solid understanding of technical concepts unique to sync sound 16mm filmmaking and will continue to develop sophistication as filmmakers. This course will place special emphasis on the qualities of sync sound recording methods, black & white cinematography and lighting. Concurrent registration in FILM 400 required.

Prerequisite: FILM 384.**FILM 485 Advanced Filmmaking (3)****Fall:** On Demand **Spring:** On Demand

Pre-production planning and production of short 16mm films. Special area of focus on the post-production process and advanced cinematic editing technique. Concurrent registration in FILM 401 required.

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 141 Personal Finance I (1)

Fall: All Years **Spring:** All Years **Summer:** All Years
 You will learn to determine financial goals and to express your needs explicitly in a way that can be easily converted into numbers. This course will help you convert your goal statements into a string of numbers that describes what is happening or what you want to happen in your financial life. You will learn how to bring your spending under control and get the most out of every dollar. You will look for the best banking services at the best price, either online or off. We will focus on individual tax filing, tax planning and maximizing after-tax returns. Finally you will assess your credit capacity and credit rating by gaining an understanding of the information creditors look for when you apply for credit. We will identify the steps you can take to avoid and correct credit mistakes.

FINC 142 Personal Finance II (1)

Fall: All Years **Spring:** All Years **Summer:** All Years
 The course will evaluate alternative consumer credit and loan features and explore strategies for debt management. Students will gain an understanding of cost issues associated with buying a new or used automobile. There will be a review of auto financing options and the insurance needed before operating an auto. Students will review home buying and mortgage application process. The course will analyze factors that influence the amount of coverage and cost of home insurance. There will be a review of life, health, and disability insurance.

FINC 143 Personal Finance III (1)

Fall: All Years **Spring:** All Years **Summer:** All Years
 Students will learn how to set investment planning goals. This course will review various vehicles for investing from savings to mutual funds. You will learn how and through when to buy stocks and bonds. Time will be spent understanding mutual funds and their importance for the novice to investing. The need for planning for retirement and the vehicles used such as various pension plans, IRAs, Roth IRA, and 401k will be included.

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: All Years
 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)

Summer: 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 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 325, FINC 341.

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)**Fall:** 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)****Spring:** All Years

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 [W] Portfolio Analysis and Management (3)****Spring:** All Years

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

Advanced study of the pricing and use of derivative market instruments, current topics and issues.

Prerequisite: FINC 360.**FINC 466 Advanced Personal Finance (3)****Spring:** All 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 Internship (1-12)****Fall:** All Years **Spring:** All Years **Summer:** All Years

A supervised, practical experience in finance. A maximum of 12 internship credits may be applied to the degree. Students must have completed 6 credits in Finance beyond FINC 340 prior to the internship.

Prerequisite: FINC 340.**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 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.

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, note taking, time management, critical thinking, career/life planning and interpersonal relationships.

Game Development

GDEV 190 Topics in Game Development (1-3)

Fall: On Demand **Spring:** On Demand
Topics in Game Development.

Geoscience

GEOS 102 [3] Geology in the National Parks (3)

Fall: 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. MnTC Goal 3.

GEOS 110 [3/11] Introductory Physical Geography (3)

Fall: All Years **Spring:** On Demand

Basic elements of geography including weather and climate, vegetation, soils and landforms. MnTC Goal 3.

GEOS 111 [7/11] 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. MnTC Goal 7.

GEOS 115 [3L] 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. Must also register for GEOS 115L. MnTC Goal 3.

GEOS 115L [3] Physical Geology Lab (0)

Fall: All Years

This lab must be taken concurrently with GEOS 115 Physical Geology.

GEOS 116 [3L] 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. MnTC Goal 3.

GEOS 117 [3] Water, Land, and People (3)

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. Must also register for GEOS 117L. MnTC Goal 3.

GEOS 117L [3L] Water, Land, and People Lab (1)

Fall: Even Years

This is a lab that must be taken concurrently with GEOS 117 Water, Land, and People. MnTC Goal 3.

GEOS 170 [3L] 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. Lab included. MnTC Goal 3.

GEOS 235 Geography of Minnesota and North Dakota (3)

Fall: Odd Years **Spring:** Odd Years

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 303 Petrology (3)**Spring:** Odd Years

This course examines how sedimentary, igneous, 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 302.**GEOS 305 [10] 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. MnTC Goal 10.

GEOS 310 [5/11] United States and Canada (3)**Fall:** All Years

Regional survey of United States and Canada with emphasis on regional contrasts and interrelationships. MnTC Goal 5.

GEOS 315 [W] 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 302, GEOS 303 or GEOS 115.**GEOS 320 [8/11/W] Economic Geography (3)****Fall:** Odd Years **Spring:** Odd Years

This course will focus on the geography of human economic activities, including agriculture, mining, manufacturing, trade, and the global patterns of world economics. MnTC Goal 8.

GEOS 325 [W] 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. Same as ANTH 325.

GEOS 330 [10] 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. MnTC Goal 10.

GEOS 335 [10/11] Environmental Geography and Conservation (3)**Fall:** Odd Years **Spring:** Odd Years

This course is a description, analysis, and spatial study of environmental problems including food supplies, energy resources, pollution of all types, wildlife habitat and habitat loss, and environmental change and degradation. The course will also explore the human impacts on environment and ecosystems, and discussions of conservation and preservation issues. MnTC Goal 10.

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 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. Same as ANTH 350.

Prerequisite: ANTH 115 or GEOS 117.**GEOS 360 [3L] Planetary Science (3)****Spring:** Odd Years

A synthesis of current knowledge of the members of the solar system and the origin and evolution of planetary systems. Lab included. Same as AST 360. MnTC Goal 3.

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)**Fall:** 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 [8/11] 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. MnTC Goal 8.

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 effects 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)****Summer:** All Years

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 303, GEOS 315, GEOS 370.**GEOS 455 Field Methods in Geoarchaeology (4)****Fall:** Odd Years **Spring:** Odd Years

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 469 Internship (1-12)****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. A maximum of 12 internship credits may be applied to the degree.

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.

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 Same as TECH 216.
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.

Prerequisite: GCOM 152, GCOM 255.

GCOM 255 Beginning Computer Graphics (3)

Fall: All Years **Spring:** All Years

Computer graphics pertains to the production of print related 2D graphics, illustrations, typesetting, and preparation of press-ready art. This course introduces students to the Macintosh computer and Photoshop, Illustrator and InDesign software applications.

GCOM 266 Introduction to Multimedia (3)

Fall: All Years **Spring:** 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 intermediate course builds on the student's basic knowledge of computer graphics pertaining to the production of print related 2D graphics, illustrations, typesetting, and preparation of press-ready art. The Macintosh platform and the software applications used in the graphic communications industry will be explored in more depth.

Prerequisite: GCOM 255.

GCOM 366 Dreamweaver/CSS (3)

Fall: All Years **Spring:** All Years

A continued study in web development as it applies to Cascading Style Sheets (CSS) on the Internet. Focus is on the development of advanced web presentations for business and organizations, including CSS Scripting, Interactivity and Javascript.

Prerequisite: GCOM 266.

GCOM 368 Multimedia Authoring with Flash (3)

Fall: All Years **Spring:** 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.

Prerequisite: 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 3D Graphics (3)

Spring: All Years

Advanced study in 3D Graphic Applications such as 3D Studio Max and MAYA, on both Mac and Windows platforms. Study includes animation, sound, video, Special FX, Game UI, and Virtual World Development.

Prerequisite: GCOM 316.

GCOM 452 Graphic Communications Management (3)**Spring:** All Years

Study of graphic communications project management. Topics range from cost estimating, facility design, equipment purchasing, payroll and project management as well as developing GCOM estimating skills. This course is designed to provide the participant a general background in these processes. Only open to GCOM majors. Must be taken in conjunction with GCOM 459A or 459B.

GCOM 455 Advanced Computer Graphics (3)**Spring:** 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.

Prerequisite: GCOM 355.**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.

Prerequisite: GCOM 457.**GCOM 459A Graphic Communications Final Project A (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 also complete GCOM 459B the following semester. Only for GCOM majors in senior status and consent of advisor.

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 be GCOM majors in Senior status and successful completion of GCOM 459A as well as completion of all other GCOM program requirements, with the exception of GCOM 452, prior to registering for this course.

GCOM 466 Advanced Interactive Graphics (3)**Fall:** All Years

Continued practical study of interactive 3D, audio, and motion graphic applications used in the multimedia industry. Emphasis is on production processes, game UI, DVD-CD ROM, Web processes.

Prerequisite: GCOM 368, MUS 381.**GCOM 469 Internship (1-12)****Fall:** All Years **Spring:** All Years

Available to all Graphic Communications students in junior or above status. Approved practical work experience. Supervised by departmental faculty. A maximum of 12 internship credits may be applied to the degree.

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.

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. See <http://www.mnstate.edu/aod/acl.cfm> for more information.

HLTH 124 First Aid for Elementary Education (1)

Fall: On Demand **Spring:** On Demand

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 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 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 and Physical Education in the Elementary Schools (2)

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 wellness and developing and using motor skills for an active classroom. It also is a preparation for pre-service teachers to take part in developing healthy behaviors in their pre-primary through 8th grade level students. This course includes methods of instruction.

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)

Fall: 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 [W] 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)

Fall: 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 465 Coordinated 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 (1-12)**Fall:** On Demand **Spring:** On Demand

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. A maximum of 12 internship credits may be applied to the degree.

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.

Health Services Administration

HSAD 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. Same as COMH 326.

HSAD 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.

HSAD 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.

HSAD 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.

HSAD 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.

HSAD 420 [W] 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.

HSAD 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.

HSAD 469 Internship (1-12)

Fall: All Years **Spring:** All Years

Designed for Health Service Administration majors. Involvement in field work by placement in health related governmental, volunteer, non-profit, or commercial agencies. A maximum of 12 internship credits may be applied to the degree.

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. MnTC Goal 2.

HIST 104 [5] World History I (3)

Fall: All Years

World Civilizations from the ancient through classical periods and up to 1500. Same as INTL 104. MnTC Goal 5.

HIST 105 [5] World History II (3)

Spring: All Years

The World since 1500; the development of European global hegemony; the post-European world. Same as INTL 105. MnTC Goal 5.

HIST 121 [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. MnTC Goal 5.

HIST 122 [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. MnTC Goal 5.

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 [7] Asian-American Experience (3)

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. MnTC Goal 7.

HIST 225 [8] Introduction to Latin American History (3)

Fall: On Demand **Spring:** On Demand

Using popular culture, this course will introduce and interrogate the history of Latin America, focusing on its interactions with the wider world. We will cover Latin American history from contact with Europe in 1492 through the present day. MnTC Goal 8.

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 300 [W] Introduction to Historical Methods (3)

Fall: Odd Years **Spring:** Odd Years

For History and Social Studies majors, this is an introduction to the fundamental skills and proper conduct of the historical professional. Students will become familiar with the various schools of historical thought, available primary and secondary source material, correct citation of sources, potential careers in history, as well as the research, drafting, refining and presentation of a polished historical research paper.

HIST 301 East Asian History I (3)

Fall: Even Years

Traditional China, Japan, and Korea from the Neolithic cultures to mid-19th century.

HIST 302 East Asian History II (3)

Spring: Odd Years

East Asia since 1830: Western intrusion, reform, revolution and contemporary issues.

HIST 304 [8] Africa in World History (3)

Spring: On Demand

Africa's role in global history, including the spread of Christianity and Islam, the slave trade, colonialism, and Apartheid. MnTC Goal 8.

HIST 307 Topics in Asian History (3)

Fall: Odd Years **Spring:** Odd Years

Selected topics in Asian history.

HIST 310 Topics in European History (1-3)

Fall: Odd Years **Spring:** Odd Years

Selected topics in European history.

HIST 311 Topics in North American History (2-3)**Fall:** Odd Years **Spring:** Odd Years

Selected topics in North American history.

HIST 312 [9] Governments in Crisis (3)**Spring:** Odd Years

Using unique pedagogical role-playing exercises, students will participate in crisis turning points of world history, taking on the roles of leaders attempting to grapple with issues like war, natural disaster, minority rights, religious tolerance and immigration. These exercises lead to a major self-reflection project on the relevance of this experience to students' contemporary lives. MnTC Goal 9.

HIST 315 Minnesota and the Upper Midwest (3)**Fall:** Odd Years **Spring:** Odd Years

Historical development of the Upper Midwest region with particular focus on the State of Minnesota.

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 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. Same as LGST 321.

HIST 322 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. Same as LGST 322.

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. Same as INTL 323.

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. Same as INTL 324.

HIST 329 [8] Modern Military History (3)**Fall:** Odd Years **Spring:** Odd Years

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. MnTC Goal 8.

HIST 333 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 History of Latin America II (3)**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:** Odd Years **Spring:** Odd Years

An examination of the major themes in the development of the Mexican nation with the emphasis on the period since independence.

HIST 344 [7] Women in World Religions (3)**Fall:** Odd Years **Spring:** Odd Years

This course will survey how gender power and control is represented in various cultural belief systems and expressed in religious practices. The class will stress the concepts of utilizing social norms and historiographical theory in order to analyze human behaviors. The class will also explore the concept of “cultural heritage” and will investigate how it affects the student’s personal worldview, values and assumptions. In order to accomplish this goal, the students will be introduced to a wide variety of primary and secondary source documents as well as examples of material culture, and will be expected to provide written analysis of these items. MnTC Goal 7.

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”. Same as WS 350.

HIST 359 Colonial America (3)**Fall:** On Demand **Spring:** On Demand

This course is a study of the age of exploration and the establishment of the North American colonies. Emphasis will be given to the British colonies of the western hemisphere, but the course will also include those colonies of other nations as they affect American growth and development. It will include a broad treatment of social, political, economic, and intellectual forces to 1763.

HIST 360 American Revolutionary Era (3)**Fall:** Odd Years **Spring:** Odd Years

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 Antebellum America (3)****Fall:** On Demand **Spring:** On Demand

This course will focus on the competing economic systems of developing northern merchant capitalism and southern slavery and examine the impact of these two systems on the politics, social relations, and culture of every day Americans in the antebellum (1790-2848) period.

Prerequisite: HIST 121.**HIST 362 Civil War and Reconstruction (3)****Fall:** Odd Years **Spring:** Odd Years

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 Gilded Age and Progressive Era (3)****Fall:** On Demand **Spring:** On Demand

Designed to fulfill an upper-level U.S. history requirement for History and Social Studies majors, this course surveys the history of the United States from roughly 1877 to 1920, a period of western settlement, industrialization, massive immigration, and the rise of cities. These developments involved wrenching changes, and the course will examine the problems that were created and the efforts of reformers to address those problems.

Prerequisite: HIST 122.**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 lifestyles, values, and ways of thinking of diverse groups in American history.

HIST 369 The United States in Vietnam, 1945-1975 (3)**Fall:** Odd Years **Spring:** Odd Years

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 373 [10] Monsoon Asia: People and the Environment (3)**Fall:** All Years **Spring:** All Years

An introduction to the environmental history of South, East and Southeast Asia with emphasis on the modern period. Topics include the environmental factor in the fall of the Indus and Huanghe Civilizations, unsustainable development in traditional Asian societies, impacts of imperialism on the Asian environment, consequences of industrialization, and contemporary environmental issues. MnTC Goal 10.

HIST 374 Plagues & Peoples: History of Disease and Medicine in America (3)**Fall:** Odd Years **Spring:** Odd Years

An examination of the history of medical knowledge and practices concerning epidemic diseases with an emphasis on human sustainability and a focus on specific epidemics in U.S. 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 376 [8] The World of Food (3)**Fall:** Odd Years **Spring:** Odd Years

Using food and eating as a way to connect disparate cultures and geography, this course discusses issues of global concern such as food security, famines, the gendering of food, GMO crops and food as an industry, as well as topics like religious food restrictions, vegetarianism, local foodsheds, allergies, food and identity and food in popular culture. MnTC Goal 8.

HIST 377 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:** Odd Years **Spring:** Odd Years

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 379 [10] Environmental History (3)**Fall:** On Demand **Spring:** On Demand

This course surveys the history of political ecology throughout the world during the last 500 years. Topics include global interconnectedness and the spread of disease, the relationship between trade, modern economics, and sustainable development, natural disasters, and the rise of the ecological movement. MnTC Goal 10.

HIST 383 Ancient Near East I (Greece) (4)**Fall:** On Demand **Spring:** On Demand

This course examines the politics, culture, and society of the Ancient Near East (c.3000 BCE-c.300 BCE) including Persia, Mesopotamia, Egypt and surrounding areas. The course will outline the political narrative while featuring, myth, religion, gender, architecture and art. Using both secondary and primary sources, the course will also trace the achievements of Alexander the Great.

HIST 384 Ancient Near East II (Rome) (4)**Fall:** On Demand **Spring:** On Demand

This multi-faceted course examines the cultural, political, spiritual, intellectual, and social-economic developments of the ancient Near East, including the Hellenistic World, Persia, North Africa and Rome c. 300 BCE-600 CE. Special topics include politics, empire building, religious cults, Christianization of the late Roman Empire, textual and material sources for the conversion of Constantine, architecture and gender in the Roman world.

HIST 385 History of Christianity (4)**Fall:** On Demand **Spring:** On Demand

This course surveys the theological, political and cultural history of Mediterranean Christianity c. 4 BCE-400 CE. The semester is divided into five units: the historical Jesus, Paul, Patristics, Asceticism & Heresy, and Early Christian Rome. Other themes include: women, angels, sacred space, martyrdom and sanctity.

HIST 386 Muhammad and the Origins of Islam (3)**Fall:** On Demand **Spring:** On Demand

This course will provide an introduction to the world of early Islam. Topics will include pre-Islamic Arabia, the life and times of the prophet Muhammad, the foundation of the religion of Islam, the formation of Quranic message in its earliest historical setting and the earliest development of the Islamic community in the Near East in medieval times. Principle personalities, cultural trends, religious concepts, and rituals, ceremonies and practices will be identified and examined within the context of the period ca. 570-750.

HIST 387 History of Byzantium (3)**Fall:** On Demand **Spring:** On Demand

This course will provide an introduction to the world of Byzantium. Topics will include the crisis of the late third century, the Constantinian revolution, the foundation of Constantinople, Christian heresies and Church councils, Persian and Muslim Arab invasions, Iconoclasm, the apogee of Byzantine power, Seljuk and Western invasions and the decline and fall. Principal personalities, cultural trends, and Christian Orthodox religious concepts, rituals, ceremonies and practices will be identified and examined within the context of the period ca. A.D. 300-1453.

HIST 389 History of Ancient Israel (3)**Fall:** On Demand **Spring:** On Demand

This course will provide an introduction to the world of ancient Israel: the land, the people, and the faith. Topics will include the life and times of the patriarchs, the Exodus, the Conquest, the foundation of the ancient nation of Israel in the time of the Judges and the monarchy, the formation of the Biblical message in its earliest historical settings, and the later development of the Israelite community in the Near East through the destruction of the Second Temple. Principal personalities, cultural trends, religious concepts, and rituals, ceremonies and practices will be identified and examined within the context of the period ca. 2000 BCE to 70 CE.

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 [W] Senior Seminar (3-4)**Fall:** All Years **Spring:** All Years

Problems in history for advanced students.

HIST 440 [W] 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 (1-12)**Fall:** On Demand **Spring:** On Demand

History majors gain on-the-job experience in a supervised situation with cooperating private or public agencies. A maximum of 12 internship credits may be applied to the degree.

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.

Honors

HON 200 [6/11/W] Honors Colloquium in the Humanities (3)

Fall: All Years

This course will examine texts from a range of disciplines and periods that define “home” as well as the space of the Other. The colloquium will stress formal and informal discussion of ideas. The course is designed to synthesize skills from the Honors Foundation and serve to further develop capacity for independent thought. Building on the skills practiced in the Honors Foundation courses students will develop skills through extensive class discussion, analytical and research writing, oral report, and lecture. MnTC Goal 6.

HON 290 Honors Topics (1-3)

Fall: On Demand **Spring:** On Demand

This is a topics course which may be repeated when the content varies.

HON 300 [5] American Society (3)

Fall: All Years

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. MnTC Goal 5.

HON 301 [6] Masterpieces of Literature (3)

Fall: Odd Years **Spring:** Odd Years

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. May be repeated once when content changes. MnTC Goal 6.

HON 302 [6] Tellings and Retellings (3)

Fall: Odd Years **Spring:** Odd Years

This class consists of the intensive examination of certain key classic texts, such as Shakespeare’s *Othello*, and their “retelling” in other artistic disciplines by other artists. In exploring these retellings the class examines both the formal elements of—say—musical or movement expression (to name just two) in order to understand how a written text can be “translated” into other media and also examines how the values embedded in a particular text can be altered or even transformed in another version. MnTC Goal 6.

HON 305 Good and Evil in Literature (4)

Fall: Odd Years **Spring:** Odd Years

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 Human Nature in the Western Tradition (3)

Fall: Odd Years **Spring:** Odd Years

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 [5] Transformation of the Roman World: 31 B.C. to A.D. 312 (3)

Fall: Odd Years **Spring:** Odd Years

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. MnTC Goal 5.

HON 312 [6] Journeys in Literature: Classical and Medieval Masterpieces (3)

Fall: Odd Years **Spring:** Odd Years

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. MnTC Goal 6.

HON 314 [3L] Space, Time, and Change: Revolutions in Self Perception (3)

Spring: Even Years

This science course examines the scientific basis for three great revolutions in human understanding: The realization that the universe is very large, that it has existed for a very long time, and that every part of it changes with time (focusing in particular on changes in the stars, in the earth, and in life). We will consider how this understanding has influenced human world views and religious beliefs. The course includes lectures and lab activities as well as open discussion of assigned readings. During discussions, students are encouraged to explore and share their own world views as well as examine the views of others. Lab included. MnTC Goal 3.

HON 315 Science and Time (3)**Fall:** Odd Years **Spring:** Odd Years

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 316 [5] The Dangerous 18th Century (3)****Fall:** On Demand

Intensive seminar using the historical frame of the “long 18th Century” (1688-1815) to examine the often unpleasant realities of life on the edge of the modern world. This class uses primary documents and supporting secondary materials to examine issues like piracy, disease, revolution, gender roles, witchcraft, crime and slavery. The centerpiece of the course is a three-week role-playing exercise placing students as actors in an crucial 18th century event, based on their reading of crucial primary texts. MnTC Goal 5.

HON 318 [3L] Issues of the Nuclear Age (3)**Fall:** Odd Years **Spring:** Odd Years

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. MnTC Goal 3.

HON 320 [3L/W] History of Science (3)**Spring:** Odd Years

In this course, students will examine and learn: The scientific method; the historical development of key natural science disciplines; key people and time periods in the development of disciplines; a framework for evaluating past experimental efforts; an understanding of current scientific approaches and data; and how science has impacted society throughout history and continues to impact our society today. Lab included. MnTC Goal 3.

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.**HON 496 [9/W] Capstone in Ethics and Civic Responsibility (3)****Fall:** All Years **Spring:** All Years

The goal of this course is to produce an interdisciplinary scholarly and/or creative work, consistent with the goal of the Honors Program to develop independent thinkers capable of conveying their thoughts to a broad audience. Student paper and final grades will be determined by the quality of written work; assignments are not pro forma. As a Writing Intensive course focusing on Ethics and Civic Responsibility, lecture and discussion will be devoted to engaging the ethical and civic responsibilities incumbent upon professionals, as well as developing individual student projects, including writing workshops, feedback sessions, and instruction in writing matters. MnTC Goal 9.

Humanities

HUM 101 [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. MnTC Goal 6.

HUM 211 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 213 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 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 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 227 [6/W] Russian Humanities (3)

Fall: Odd Years **Spring:** Odd Years

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. MnTC Goal 6.

HUM 302 [9/W] Liberty and Civic Responsibility in America (3)

Fall: On Demand **Spring:** On Demand

The course examines the origins of the concepts of liberty and civic responsibility within the context of American culture, and how these concepts and ideals developed in American thought during the 19th and 20th centuries. MnTC Goal 9.

HUM 320 [8/W] Humanities East and West (3)

Fall: Odd Years **Spring:** Odd Years

To examine world literatures, arts and religions from a comparative perspective: parallels, contrasts, and intercultural influences between Asia and the West. MnTC Goal 8.

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 101 [5] 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. MnTC Goal 5.

INTL 104 [5] World History I (3)

Fall: All Years

World Civilizations from the ancient through classical periods and up to 1500. Same as HIST 104. MnTC Goal 5.

INTL 105 [5] World History II (3)

Spring: All Years

The World since 1500; the development of European global hegemony; the post-European world. Same as HIST 105. MnTC Goal 5.

INTL 308 [8] Migration and Human Adaptation (3)

Fall: Even Years

An examination of migration as an adaptive strategy used by people in adjusting to changing conditions in their environment. Explores types of migration as well as motivations and consequences of human movement in both the past and present and around the world. Same as ANTH 308. MnTC Goal 8.

INTL 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. Same as HIST 323.

INTL 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. Same as HIST 324.

INTL 364 [8] International Migration (3)

Fall: On Demand **Spring:** On Demand

This course is designed to develop a good knowledge of the politics, economics and international law and organizations of international migration. Same as POL 364. MnTC Goal 8.

INTL 370 [8] Understanding International Security (3)

Fall: On Demand **Spring:** On Demand

This course highlights a series of traditional and non-traditional security issues that have emerged on the Security Studies agenda. The course begins with traditional security concerns such as the threat and use of force, and then moves to the non-traditional issues that have emerged as the subject area has expanded. Same as POL 370. MnTC Goal 8.

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 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 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 [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.

MnTC Goal 7.

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 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 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 385 [8] Hiroshima Peace Studies Tour (3)

Spring: Even Years

This course is planned around a one week trip to Hiroshima, Japan. Topics will include: the science of radiation and nuclear weapons; the experiences of those who lived through the atomic bombing of Hiroshima and Nagasaki; how these experiences are relevant to the rest of humanity; and Japanese history, language and culture. Students will pursue individual projects, and perform field work assignments in Hiroshima. Same as PHYS 385. MnTC Goal 8.

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 457 Second Language Acquisition & Language Teaching (3)

Spring: All Years

This course covers theories of language acquisition and their application to language teaching. Includes a historical overview of the field of language teaching, an examination of factors that affect language learning, and how these factors are addressed in a classroom setting. Students will be asked to articulate the philosophical basis of their own approach to language teaching.

LANG 469 Internship (1-12)

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. A maximum of 12 internship credits may be applied to the degree.

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.

LANG 475 Second Language Assessment (3)

Fall: All Years

Theories and strategies for the assessment of second language competence, including mapping assessment to state and national proficiency guidelines and standards, conducting formal and informal classroom assessment, and becoming familiar with standardized assessments.

Prerequisites: LANG 457 or LANG 471.

Latin

LAT 101 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 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.

Leadership

LEAD 301 Introduction to Leadership (3)

Fall: All Years

Examines the major theories and perspectives of leadership. Students will gain practical leadership skills in planning, problem solving, and strategies for accomplishing goals.

LEAD 490 Topics in Leadership (1-3)

Fall: On Demand **Spring:** On Demand

This is an upper division topics course and may be repeated when the topic changes.

LEAD 498 Leadership Seminar (2-3)

Spring: All Years

Provides an opportunity for students to discuss their leadership positions on campus or in the community. Examines in greater depth issues related to ethics, leadership, and group communication. Includes academic service-learning project conducted by the class. Includes group project.

Prerequisite: PDEV 207, PDEV 208.

Legal Studies

LGST 321 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. Same as HIST 321.

LGST 322 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. Same as HIST 322.

LGST 481 Senior Seminar (3)

Fall: On Demand **Spring:** On Demand

This is the capstone seminar for Legal Studies majors. It will examine prominent theoretical and substantive legal issues both historical and contemporary, including constitutional theory. Specific topics will vary by instructor.

Prerequisite: ACCT 304, PARA 251, POL 230.

Management

MGMT 315 [W] 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: CSIS 104.

MGMT 380 Operations Management (3)

Fall: All Years **Spring:** All Years

Description and analysis of the operations function in an organization.

Prerequisite: MATH 234, MGMT 360.

MGMT 405 Small Business Management (3)

Fall: All Years

Analysis of problems confronting the manager of small retail, wholesale, and manufacturing enterprises. Students must have Junior standing.

MGMT 415 [W] Industrial Organization and Public Policy (3)

Spring: All 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 ECON 415.

MGMT 416 [W] Labor Economics (3)

Fall: All Years

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 430 Managerial Economics (3)

Fall: Odd Years **Spring:** Odd Years

Integration of quantitative methods and economic theory used in managerial decision-making. Same as ECON 430.

Prerequisite: ECON 204, MGMT 360.

MGMT 433 Business Intelligence Using Data Mining (3)

Fall: All Years **Spring:** All Years

Businesses are collecting and storing vast amount of data. Business intelligence (data mining) techniques are used to turn business data into valuable information and generate business intelligence, helping organizations to make effective decisions. This course will provide an understanding of various data mining techniques such as association rules, clustering, classification techniques, etc. and how to use data mining techniques to transform large and complex data into actionable information. The data mining techniques will be examined in the context of business applications such as marketing, e-commerce, finance, and retailing. (Same as MKTG 433).

Prerequisite: MATH 234, MGMT 370.

MGMT 440 Personnel Management (3)

Fall: All Years **Spring:** All Years

Management of people at work with emphasis on recruiting, selecting, training, and evaluating personnel.

Prerequisite: MGMT 360.

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

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 Internship (1-12)****Fall:** All Years **Spring:** All Years **Summer:** All Years.

A supervised practical experience in management. A maximum of 12 internship credits may be applied to the degree. Students must have completed 6 credits in Management beyond the Business Core courses prior to the internship.

MGMT 480 Management Science (3)**Fall:** 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: MATH 234, MGMT 360.**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 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 317 Services Marketing (3)

Spring: All Years

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)

Fall: On Demand **Spring:** On Demand

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)

Spring: All Years

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 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 **Spring:** 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.

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: MATH 234, MKTG 310.

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. Same as MC 423.

Prerequisite: MKTG 310.

MKTG 433 Business Intelligence Using Data Mining (3)

Fall: All Years **Spring:** All Years

Businesses are collecting and storing vast amount of data. Business intelligence (data mining) techniques are used to turn business data into valuable information and generate business intelligence, helping organizations to make effective decisions. This course will provide an understanding of various data mining techniques such as association rules, clustering, classification techniques, etc. and how to use data mining techniques to transform large and complex data into actionable information. The data mining techniques will be examined in the context of business applications such as marketing, e-commerce, finance, and retailing. (Same as MGMT 433).

Prerequisite: MATH 234, MGMT 370.

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 Internship (1-12)

Fall: All Years **Spring:** All Years **Summer:** All Years

A supervised practical experience in marketing. A maximum of 12 internship credits may be applied to the degree. Students must have completed 6 credits in Marketing beyond MKTG 310 prior to the internship.

Prerequisite: MKTG 310.

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.

Mass Communications

MC 100 Introduction to Mass Communications (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
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 **Summer:** On Demand
A survey of the visual components that make up mass communications, including structural elements, psychological effects, and general visual literacy.

MC 210 [W] Media Writing (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
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: On Demand **Spring:** On Demand **Summer:** On Demand
Practicum for students working on the MSU Advocate staff. Repeatable to 4 credits.

MC 220 Desktop Publishing (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
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 **Summer:** On Demand
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: On Demand **Spring:** On Demand **Summer:** 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: On Demand **Spring:** On Demand **Summer:** On Demand
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 **Summer:** On Demand
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 **Summer:** On Demand
The 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: On Demand **Spring:** On Demand **Summer:** On Demand
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 **Summer:** On Demand
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 **Summer:** On Demand
The 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 **Summer:** On Demand

The 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 **Summer:** On Demand

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 [W] Advertising Copywriting (3)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

The 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 220, MC 303.**MC 307 [W] Public Relations Processes (3)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

The 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 220, MC 304.**MC 308 Broadcast Journalism (3)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

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 [W] Reporting (3)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

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 **Summer:** On Demand

Copy Editing is designed to achieve the following outcomes: competence in using Associated Press style, grammar, and syntax; skill in headline writing, cutline 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 306 or MC 307 or MC 308 or MC 309.**MC 320 Layout and Typography (3)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

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 **Summer:** On Demand

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 **Summer:** 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 **Summer:** On Demand

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: On Demand **Spring:** All Years **Summer:** On Demand
The 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 **Summer:** On Demand
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 **Summer:** On Demand
A practicum whereby students learn to produce television news packages. Reports learn to cover stories as assigned and work along with photographers to construct weekly news packages. Those enrolled in this course must also take MC 344 Television News Editing. May be repeated for credit.

MC 343 Television News Photography (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
A practicum whereby students learn to produce television news packages. Photographers shoot stories as assigned and work along with reports to construct weekly news packages. Those enrolled in this course must also concurrently take MC 344 TV News Editing. May be repeated for credit.

MC 344 Television News Video Editing (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
A practicum whereby students learn to edit television news packages. Editors must take MC:342 Television News Reporting or MC 343 Television News Photography concurrently with this course. May be repeated for credit.

MC 345 Television News Producing (2-3)

Fall: On Demand **Spring:** All Years **Summer:** On Demand
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 **Summer:** On Demand
The 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 **Summer:** On Demand
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:** On Demand **Summer:** On Demand
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 **Summer:** 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 **Summer:** On Demand
The 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)

Fall: On Demand **Spring:** On Demand **Summer:** On Demand
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 **Summer:** 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 **Summer:** 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 **Summer:** On Demand

The 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 379 Ad Agency Practicum (3)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

Flypaper Creative Services is a student-run ad agency centered in FR 256. The agency interacts with actual clients, mostly non-profits or start-up companies, and produces materials like posters, brochures, advertisements, television and radio commercials, web sites and/or marketing plans. Participants in the agency serve as account managers, copy writers or designers. Participation in this class is by special permit only, granted to those who demonstrate competency in the areas of design, copywriting and account management. Participants receive three credits per semester and are encouraged to participate for more than one semester.

MC 381 Sports Information and the Media (3)**Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

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:** On Demand **Spring:** On Demand **Summer:** On Demand

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 **Summer:** On Demand

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 **Summer:** 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 **Summer:** On Demand

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 **Summer:** On Demand

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 **Summer:** On Demand

The 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 Writing for the Web (3)**Fall:** All Years **Spring:** All Years **Summer:** On Demand

As a result of actively participating in the course, students should be able to: (1) Understand changing media consumption and production patterns as media increasingly converges on the Web, (2) gain and build proficiency in writing and crafting media messages designed specifically for Web presentation, (3) identify and use evolving mass communication methods not solely available to print or broadcast media, and (4) understand best writing practice for connecting with Web-based audiences.

Prerequisite: MC 210, MC 309.**MC 406 Feature Writing (3)****Fall:** All Years **Spring:** On Demand **Summer:** On Demand

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 307, MC 309 or MC 310.

MC 407 Magazine Writing (3)

Fall: On Demand **Spring:** All Years **Summer:** On Demand
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 307, MC 309 or MC 310

MC 409 Producing Broadcast Ads and Public Relations (3)

Fall: On Demand **Spring:** On Demand **Summer:** 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: On Demand **Spring:** On Demand **Summer:** On Demand
The 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 Digital Storytelling (3)

Fall: All Years **Spring:** On Demand **Summer:** On Demand
Advanced use of multimedia software applications for online journalism. Story, structure, design and interactivity are stressed. Legal and ethical issues for online publishing are also addressed.

Prerequisites: MC 220, MC 230, MC 305, MC 351, MC 352.

MC 423 Marketing Communications (3)

Fall: All Years **Spring:** All Years **Summer:** On Demand
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. Same as MKTG 423.

Prerequisite: MKTG 310.

MC 427 Public Relations Fundraising (3)

Fall: On Demand **Spring:** On Demand **Summer:** 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 **Summer:** On Demand
The 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 for credit.

Prerequisite: MC 330.

MC 440 Broadcast Documentary (3)

Fall: All Years **Spring:** On Demand **Summer:** 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 **Summer:** On Demand
The 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 **Summer:** On Demand
The 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 461 Ad Portfolio Development (3)

Spring: All Years **Summer:** On Demand
Students in this course will develop portfolio elements such as advertisements, logos, posters, brochures and banner ads. The course is for students who are interested in working in a creative department of an ad agency or in-house advertising department. Individual portfolio elements are sent out for evaluation to working professionals from the local area, the region and the nation. In order to be part of a student's portfolio, the piece must have been approved by at least one outside source. At the end of the semester, students will have at least 2 approved pieces for their portfolios and will have both a physical portfolio and an online portfolio.

Prerequisite: MC 306, MC 320.

MC 462 Practicum in Publishing (3)**Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

This course is designed to familiarize students to the working functions of a small press literary publishing house through lectures, demonstrations, and supervised group activities such as participating on editorial book teams, writing teacher guides for the website for New Rivers Press books, developing marketing plans, reading tours, distributor marketing packets etc. All projects are presented in class to foster a broader class understanding of the overall activities of a small press.

Prerequisite: ENGL 402 or MC 402.**MC 469 Internship (1-12)****Fall:** All Years **Spring:** All Years **Summer:** 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 **Summer:** 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 **Summer:** On Demand

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 **Summer:** 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)****Fall:** On Demand **Spring:** On Demand **Summer:** 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 492 Online Journalism Workshop (3)**Fall:** On Demand **Spring:** All Years **Summer:** On Demand

A capstone seminar designed to provide students with an opportunity to produce an online publication. Repeatable for credit.

Prerequisite: MC 420.**MC 493 Topical Workshop (1-3)****Fall:** On Demand **Spring:** On Demand **Summer:** On Demand

A course designed for workshops on current media topics.

MC 496 Mass Communications Seminar(3)**Fall:** Odd Years **Spring:** Odd Years **Summer:** 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 **Summer:** All Years

Individual problems in areas of specific interest to the student.

Mathematics

MATH 102 [4] Introduction to Mathematics (3)

Fall: All Years **Spring:** All Years

Logic, sets, probability and statistics, problem solving strategies. This course is not intended to prepare students for college algebra. May not be taken for credit by those who have earned credit in MDS 119. Must have successfully completed MDEV090 or higher or an acceptable placement score. MnTC Goal 4.

MATH 105 [4] Contemporary Mathematics (3)

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. Must have successfully completed Elementary Algebra or the listed prerequisites, or acceptable placement score.

Prerequisite: MDEV 090 or higher or acceptable placement score.

MATH 127 [4] College Algebra (3)

Fall: All Years **Spring:** All Years

Exponents, factoring, equations, inequalities, functions, exponential and logarithmic functions, systems of equations, graphs of functions, polynomial and rational functions and synthetic division. Must have an acceptable placement score.

Prerequisite: MDEV 127 C- or acceptable placement score.

MATH 142 [4] 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. Must have successfully completed College Algebra or acceptable placement score.

Prerequisite: MATH 127 or acceptable placement score.

MATH 143 [4] Trigonometry (3)

Fall: All Years **Spring:** All Years

Trigonometric functions, identities, applications. Must have successfully completed College Algebra or acceptable placement score.

Prerequisite: MATH 127 or acceptable placement score.

MATH 229 [4] Calculus for Business and Social Sciences (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. Must have successfully completed College Algebra or acceptable placement score.

Prerequisite: MATH 127 C- or higher or acceptable placement score.

MATH 232 [4] Applied Statistics (3)

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, 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 232. Must have successfully completed Intermediate Algebra or the listed prerequisites, or acceptable placement score.

Prerequisite: MDEV 127 or higher or acceptable placement course.

MATH 234 [4] Introduction to Probability and Statistics (3)

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 232 or 236 or 336. Students who have completed MATH 262 are encouraged to take MATH 335 rather than MATH 234. Must have successfully completed College Algebra or acceptable placement score. MnTC Goal 4.

Prerequisite: MATH 127 or higher or acceptable placement score.

MATH 238 Statistical Methods (1)

Fall: On Demand

Estimation and testing of hypotheses for two populations, simple linear regression, multiple linear regression, and model building. A previous statistics course is assumed for entry into this course. Not open for students who are mathematics majors and minors.

MATH 244 [4] Applied Biostatistics (4)

Spring: On Demand

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. Must have successfully completed College Algebra or an acceptable placement score. MnTC Goal 4.

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 [4] 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. Must have successfully completed College Algebra or an acceptable placement score. MnTC Goal 4.

MATH 262 Calculus II (4)**Fall:** All Years **Spring:** All Years

Calculus of one variable-transcendental functions, applications of integrals, techniques of integration, infinite series.

Prerequisite: MATH 261 or demonstrated knowledge of Calculus I.

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 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. This course does not apply to the mathematics major or minor requirements.

Prerequisite: CCGE 119 or MATH 102 or MATH 234 or MATH 232 or MATH 236.

MATH 304 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.

Prerequisite: MATH 303.

MATH 306 Mathematics for Special Education (3)**Fall:** 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 and 304 with a grade of C- or higher.

MATH 310 Discrete Mathematics (4)**Fall:** All Years **Spring:** All Years

Methods of proof, sets, logic, functions and relations, Boolean algebra, graph theory and number systems. Students must either have taken, or be concurrently enrolled in, MATH 262 Calculus II.

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 and MATH 304, or MATH 262, or JR Standing as a secondary math major.

MATH 323 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, 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 [W] Mathematical Modeling (3)**Spring:** Even Years

Techniques of developing and analyzing mathematical descriptions of physical phenomena.

Prerequisite: MATH 323, 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 310, 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 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.

Prerequisite: MATH 303, MATH 304 with grades of "C-" or higher.**MATH 416 [W] 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 310, MATH 335.**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: CSIS 152, MATH 310, MATH 323.**MATH 469 Internship (1-12)****Fall:** On Demand **Spring:** On Demand

A supervised practical experience in mathematics. A maximum of 12 internship credits may be applied to the degree.

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 310, 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 310, MATH 323 and 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 [W] Mathematical Writing (2)**Spring:** All Years

This is a writing intensive course in the major for mathematics majors. It is intended to help students learn how to incorporate mathematics into their own writing.

Prerequisite: At least JR standing as a math major.

Mathematical Development

MDEV 090 Elementary Algebra (4)

Fall: All Years **Spring:** All Years

Signed numbers, radicals, exponents, products and factoring, solution of linear and quadratic equations, and graphing lines. Credits apply towards full-time status but do not apply towards graduation.

MDEV 127 Intermediate Algebra (4)

Fall: All Years **Spring:** All Years **Summer:** On Demand

Exponents, algebraic fractions, polynomials, functions, graphing lines, linear and quadratic equations, systems of equations, radicals, linear inequalities, absolute value equations and inequalities.

Prerequisite: Students must have successfully completed MDEV 090 or acceptable placement score.

Military Science

MS 101 Foundations of Officership (1)

Fall: All Years **Spring:** All Years

This course is offered by the NDSU ROTC program and introduces students to select military skills and professional knowledge of subjects. Students attend class one to two hours every week, seven two-hour labs, and may participate in ROTC extracurricular activities. Army ROTC coursework supports college goals by emphasizing interpersonal depth and the development of personal qualities necessary for leadership such as integrity, moral courage, strength of character and honor.

MS 102 Basic Leadership (1)

Spring: All Years

This course is offered by the NDSU ROTC program. Students attend class one to two hours every week, seven two-hour labs, and may participate in ROTC extracurricular activities. Military Science is primarily concerned with encouraging and developing competency in leadership and management skills.

Music

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 110 Musicianship for Non-Majors (2)

Fall: Even Years **Spring:** All Years

Fundamentals of music notation, music reading, and theory. Creative application through composition and performance. Assumes minimal previous musical experience.

MUS 111 [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. MnTC Goal 6.

MUS 140 [2] Thinking Musically: Critical Thinking in Multi-musical America (3)

Fall: All Years

This course focuses on critical thinking skills using American music as a means for examining assumptions, arguments and cultural images. MnTC Goal 2.

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 166 Record Company Operations (3)

Spring: All Years
This is the first course in a sequence devoted to the music and entertainment business. Topics include: record label types-major, affiliate, and independent: "Artist and Repertoire"; marketing and sales; distribution and retail; recording contracts and royalty statements; delivery methods-vinyl, CD, and internet downloads. Students will gain practical experience in the workings of a record company by helping to produce the annual Dragon Tracks CD.

Prerequisite: MUS 107, MUS 184.

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 184 Introduction to Audio Production (3)****Fall:** All Years

An introductory course on proper stereo and multi-track recording techniques for live and studio performances. Additionally, students will be introduced to standard audio production gear (EQ, Compression, Effects) and its operation. Principals will be presented through readings, recording, and lectures. Hands-on sessions will provide opportunities for basic skills acquisition. Students must attend scheduled events on some evenings and weekends as part of this course.

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 197 Independent Study (1-3)**Fall:** On Demand **Spring:** On Demand

Directed study of particular topics in music agreed upon by instructor and student.

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 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 [6] 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. MnTC Goal 6.

MUS 217 Pop/Rock Music for Non-Majors (3)**Spring:** 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 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 and Recorder for Teaching Music (1)**Fall:** All Years

Fundamentals of guitar and recorder playing for use in the general music programs in the public schools.

MUS 240 [7/11] 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. MnTC Goal 7.

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 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 266 [9] Legal and Ethical Issues in Music (3)**Fall:** All Years **Spring:** All Years

This course examines legal and ethical issues in music pertaining to consumers as well as those who participate in the creation of musical media, including: digital/copyright issues; music publishing and licensing; the role of attorneys, managers, agents, and music unions; ethical issues in the manufacture of "talent," cultural appropriation and exploitation, and popular music issues of censorship, race, and misogyny. MnTC Goal 9.

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 281 Studio Production I (2)**Spring:** All Years

A course on proper stereo and multi-track recording techniques for studio performances. Additionally, students will be introduced to standard audio production gear (EQ, Compression, Effects) and its operation. Principals will be presented through readings, recording, and lectures. Hands-on sessions will provide opportunities for basic skills acquisition. Students will also be trained in the proper use of various studio production software.

Prerequisite: MUS 108, MUS 184.**MUS 284 Live Audio Production (2)****Fall:** All Years

Course focuses on live sound reinforcement/recording. Material will be presented in the form of lectures and hands-on training. Students will gain experience in the set-up and operation of sound reinforcement systems and audio processing devices. Additionally, students will learn necessary organizational skills required to successfully oversee an event. Students must attend selected events on evenings and weekends.

Prerequisite: MUS 108, MUS 184.**MUS 287 Jazz Theory and Improvisation I (2)****Spring:** Even Years

This is the first course in a sequence devoted to the study of theory and improvisation in jazz music. The following topics will be introduced: chord qualities and nomenclature, blues and standard song forms, transcription and analysis of jazz solos, basic approaches to melodic improvisation and guide-tone exploration, and different styles of jazz including Latin, bebop and standard songs.

Prerequisite: MUS 107.**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 297 Independent Study (1-3)****Fall:** On Demand **Spring:** On Demand

Directed study of particular topics in music agreed upon by instructor and student.

MUS 300 Conducting and Instrumentation (3)**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 208, MUS 304.**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 MUS 207.

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 MUS 208.

Prerequisite: MUS 207, MUS 303.

MUS 305 [W] 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 MUS 307.

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 316 [8] World Music Survey (3)****Spring:** All Years

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. MnTC Goal 8.

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 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 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 Teaching School Band and Orchestra (2)**Spring:** Odd Years

Administration of the public school band and orchestra program. Study of objectives and evaluation procedures, teaching methods and materials. 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 Seminar in Pop/Rock Literature and Repertoire (2)****Spring:** Odd Years

Topical study of literature of repertoire of rock and popular music since 1956.

Prerequisite: MUS 207.**MUS 343 Seminar in Jazz Literature and Repertoire (2)****Spring:** Even Years

Topical study of literature of repertoire of jazz styles.

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 Audio for Film and Multimedia (3)**Fall:** All Years **Spring:** All Years

This course will focus on the various techniques involved in capturing sound for film/multimedia projects. Additionally, audio mixing, sound design and current audio delivery formats and specifications (.wav, .aiff, Mp3, etc.) for multimedia applications (web, TV, Film, etc.) will be studied.

Prerequisite: MUS 184.**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 266.**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 266.**MUS 366 Venue Management (3)****Fall:** All Years

This is the third course in a sequence devoted to the music and entertainment business. Topics include: venue type from small to large; non-profit to private sector; position descriptions to include executive director, operations manager, box office, stage management, and technical engineer; technical riders; contracts; budgets; unions; and grant-writing. This course also engages students in a large-scale community music/theatre event.

Prerequisite: MUS 166 or MUS 266.

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 372 Jazz Arranging I (2)**Fall:** Odd Years

Writing for the rhythm section (piano, guitar, bass, drums) and instruments commonly used in the jazz-commercial idiom in unison, two-part, three-part and four-part combinations. Common voicing procedures, articulations specific to the jazz-commercial genre, and melodic line harmonizations will be the focus of the course.

MUS 375 Instrument 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 Studio Production II (2)****Spring:** All Years

Equipment and techniques of studio audio production, including multi-track recording, microphone techniques, mixing, and use of effects devices.

Prerequisite: MUS 281.**MUS 382 Digital Audio for Multi-Media (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. Students will complete a group presentation/project applying all skills learned.

Prerequisite: MUS 108, MUS 184.**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 387 Jazz Theory and Improvisation II (2)****Fall:** Even Years

This is the second course in a sequence devoted to the study of theory and improvisation in jazz music. Topics include: standard chord progressions; exploration of the blues and standard song forms; development of approaches to the transcription and analysis of jazz solos; development of approaches to melodic improvisation and guide-tone exploration and bebop language; continued exploration of different styles of jazz including Latin; bebop and standard songs.

Prerequisite: MUS 287.**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 392 [W] The Art of Performing (2)****Spring:** All Years

An overview of the challenges of performing in public and an examination of procedures and processes that ameliorate the impact of performance anxiety. Students will develop and apply strategies for securing repertoire, coping with nervousness, and closing the gap between practice room sessions and auditions/performances.

MUS 397 Independent Study (1-3)**Fall:** On Demand **Spring:** On Demand

Directed study of particular topics in music agreed upon by instructor and student.

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 287, 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 447 Percussion History and Literature (2)****Fall:** Odd Years **Spring:** Odd Years

Study of Western percussion history and literature including solo, chamber, and orchestral genres. Intended for majors and minors in music.

Prerequisite: MUS 305.**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 266, MUS 365, MUS 381.**MUS 463 Projects in Composition for Film and Multimedia (1-2)****Fall:** All Years **Spring:** All Years

Individual 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 466 Artist Management and Promotion (3)**Fall:** All Years

This is the fourth course in a sequence devoted to the music and entertainment business. Topics include how to assemble a team of advisors comprised of business and personal managers, an attorney, and an agent. Business issues for this team include: philosophy, commissions, fees, and conflict-of-interest.

Promotional issues for this team include: demos, touring, riders, merchandising, advertising, and exclusivity.

Prerequisite: MUS 266.**MUS 469 Internship (1-12)****Fall:** All Years **Spring:** All Years

Internship in music-related field. Students must pass the piano proficiency examination prior to enrolling in this course. A maximum of 12 internship credits may be applied to the degree.

Prerequisite: MUS 266, MUS 365, MUS 381, MUS 461.**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 208, MUS 300.**MUS 472 Jazz Arranging II (2)****Fall:** Even Years **Spring:** Even Years

A continuation of MUS 372. Writing for five-part ensemble with rhythm section and for larger ensembles (big band, vocal jazz ensemble and studio orchestra).

Prerequisite: MUS 372.**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:** Odd Years **Spring:** Odd Years

Continuation of the study of conducting.

Prerequisite: MUS 375 or MUS 377.**MUS 481 Projects in Studio Production (1)****Fall:** All Years **Spring:** All Years

Individual projects in Studio Production. May be repeated for credit.

Prerequisite: MUS 381.**MUS 482 Digital Audio II (2)****Fall:** All Years

Continuation 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 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 487 Jazz Theory and Improvisation III (2)****Spring:** Odd Years

This is the third and final course in a sequence devoted to the study of theory and improvisation in jazz music. Topics include: non-standard chord progressions and advanced harmonic applications; advanced transcription and analysis, advanced melodic improvisation guide-tone exploration, bebop language and pentatonic scales; and different styles of jazz including modal and non-standard/contemporary.

Prerequisite: MUS 387.**MUS 496 Workshop in Music Education (1-3)****Fall:** Odd Years **Spring:** Odd Years

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

MUS 497 Independent Study (1-3)**Fall:** On Demand **Spring:** On Demand

Directed study of particular topics in music agreed upon by instructor and student.

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: BIOL 125, 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: BIOL 125, NURS 110L, NURS 112.

NURS 220L Family Nursing I (3)

Summer: All Years

Nursing care of the family unit, including pregnancy, childbirth and care of newborns.

Prerequisite: BIOL 126, 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 110L, NURS 112.

NURS 230L Family Nursing II (3)

Summer: All Years

Nursing care of a child within a family context from infancy through adolescence, including common stressors (both physiological and psychological).

Prerequisite: BIOL 126, NURS 120, NURS 120L, NURS 225.

NURS 240 Adult Health II (4)

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 (3)

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. Concurrent registration in NURS 302 is required if not already completed.

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. Concurrent registration in NURS 302 is required if not already completed.

Prerequisite: NURS 240, NURS 240L.

NURS 347 [W] Transcultural Nursing (3)

Fall: All Years **Spring:** All Years

This on-line, writing intensive 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 240L, NURS 340L, NURS 347 or NURS 240 or NURS 350.

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. Complete prerequisites OR Concurrent registration in NURS 302 is required if not already completed.

Prerequisite: NURS 220L, NURS 230L or NURS 302.**NURS 352 End of Life Nursing Care (3)****Fall:** Odd Years **Spring:** Odd Years

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. Complete prerequisites OR Concurrent registration in NURS 302 is required if not already completed.

Prerequisite: NURS 302 or NURS 340L.**NURS 403 Sexuality: A Nursing Perspective (2)****Fall:** Odd Years **Spring:** Odd Years

A holistic approach which focuses on fostering healthy sexuality in illness and wellness through effective nursing practice.

NURS 413 Nursing and Health Promotion in Special Populations (2)**Fall:** Odd Years **Spring:** Odd Years

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. Complete prerequisites OR Concurrent registration in NURS 302 is required if not already completed.

Prerequisite: NURS 120, NURS 120L or NURS 302.**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 240, NURS 240L or NURS 302.**NURS 460L Nursing Management/Leadership (4)****Fall:** All Years **Spring:** All Years

Theories and functions of management and leadership as they relate to professional nursing. Includes application to nursing leadership roles in health care settings.

NURS 465 Adult Health III (3)**Fall:** All Years

Course includes nursing care of clients with critical, complex health problems who are cared for in intensive care or specialty settings. Concurrent registration in NURS 465L is required.

Prerequisite: NURS 340L, NURS 348L.**NURS 465L Clinical Nursing III (5)****Summer:** All Years

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. Concurrent registration in NURS 465 is required.

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 303L, NURS 350, 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 303L, NURS 350, NURS 465, NURS 465L or NURS 302.**NURS 475L [W] Nursing Preceptorship (4)****Fall:** All Years **Spring:** All Years

This clinical course is the writing intensive capstone course for synthesis of prior work and educational experiences in a student's self-selected area of nursing practice. Prior completion of all Nursing courses is required except concurrent registration in NURS 470.

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 201 [9] You and the Law (3)

Fall: All Years **Spring:** All Years

To acquaint students with basic information about how their lives will be impacted by the law in numerous areas including marriage, death, employment, retirement, property ownership, consumer status, personal injury and criminal law. MnTC Goal 9.

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. Paralegal majors must earn a "C-" or better in this course.

PARA 251 [W] 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. Paralegal majors must earn a "C-" or better in this course.

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)

Spring: All Years

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 ACCT 321.

Prerequisite: ACCT 304.

PARA 325 Interviewing (3)

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)

Fall: 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 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.**PARA 425 [W] 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 251, PARA 325, PARA 375.**PARA 430 Administrative Advocacy (3)****Spring:** On Demand

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 250 and PARA 310.**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 (1-12)****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. A maximum of 12 internship credits may be applied to the degree.

Prerequisite: PARA 251, PARA 310, PARA 325, PARA 375.**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, Supplemental Nutrition Assistance Program, Temporary Assistance to Needy Families, Minnesota Family Investment Program, Medical Assistance, Medicare, and North Dakota's Training, Education, Employment and Management. (For non-paralegal majors only.)

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 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: On Demand **Spring:** On Demand

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: Odd Years **Spring:** Odd Years

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 208 The Four Roles of Leadership (1)

Fall: Odd Years **Spring:** Odd Years

This class will present an overview of a leadership framework and the competencies necessary for effective leadership in personal, professional and organizational settings.

PDEV 290 Topics in Personal Development (2)

Fall: All Years **Spring:** All Years **Summer:** On Demand

Exploration of a specific professional development topic. This course may be repeated as topic varies.

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.

Philosophy

PHIL 100 [2] Critical and Multicultural Thinking in Moral Issues (3)

Fall: All Years **Spring:** All Years

This course will explore universally correct critical thinking skills for identifying, evaluating, and constructing arguments. Students will also develop multicultural thinking skills by learning diverse cultures' different belief systems about the world and our life in it. With critical and multicultural thinking skills learned and practiced, students will approach contemporary moral issues from culturally diverse perspectives and present their views with critical arguments. MnTC Goal 2.

PHIL 101 [6] Introduction to Western Philosophy (3)

Fall: All Years **Spring:** On Demand

An introduction to Western philosophical thinking and methods through an examination of selected figures and movements from the history of the discipline. MnTC Goal 6.

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, Aristoteleanism, Kantianism, and secular humanism. MnTC Goal 7.

PHIL 105 Philosophical Thinking (4)

Fall: On Demand

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 [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. MnTC Goal 2.

PHIL 120 [7] World Religions (3)

Fall: All Years **Spring:** All Years

Study of beliefs and practices of major religions of the world. MnTC Goal 7.

PHIL 215 [9] 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. MnTC Goal 9.

PHIL 235 [7] Philosophy of Sex and Love (3)

Fall: Odd Years **Spring:** Odd Years

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. MnTC Goal 7.

PHIL 265 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 [W] History of Ethics (3)

Fall: Odd Years **Spring:** Odd Years

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 100 or PHIL 101 or PHIL 102 or PHIL 110 or PHIL 215 or PHIL 311.

PHIL 301 Philosophy of Religion (3)

Fall: Odd Years **Spring:** Odd Years

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 100 or PHIL 101 or PHIL 102 or PHIL 110 or PHIL 215 or PHIL 311.

PHIL 302 [8] Buddhist Philosophy (3)

Spring: All Years

This course explores the most fundamental issues in Buddhist philosophy that have shaped the way of life and thoughts of Buddhists for 25 centuries. Topics include Buddhist conceptions of reality, empty persons, ethical relationships, the doctrine of emptiness, Buddhist epistemology, and Zen. MnTC Goal 8.

PHIL 303 Classical Philosophy (3)**Fall:** Odd 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 100 or PHIL 101 or PHIL 102 or PHIL 110 or PHIL 215.**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 (3)****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.**PHIL 306 Modern Philosophy: 18th Century (3)****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:** Odd 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 100 or PHIL 101 or PHIL 102 or PHIL 110 or PHIL 215.**PHIL 311 [9/W] Morals and Medicine (3)****Fall:** All Years **Spring:** All Years

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. MnTC Goal 9.

PHIL 312 [9/W] 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. MnTC Goal 9.

PHIL 314 Feminist Philosophy (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 WS 314.

PHIL 316 [9] 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. Same as CSIS 316. MnTC Goal 9.

PHIL 318 [9/W] Professional Ethics (3)**Fall:** On Demand **Spring:** On Demand

The course explores the special ethical challenges that arise in professional life. The course is organized around issues common to many professions, such as competing rights, informed consent, professional obligation, and confidentiality. The course provides an overview of different normative theories and applies them to areas of concern that frequently arise in professional decision making. Case studies illustrate these issues. This course develops critical thinking and writing competencies. MnTC Goal 9.

PHIL 320 [6/W] 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. MnTC Goal 6.

PHIL 322 [8] Religious Traditions in our Global Society (3)**Spring:** All Years

Examination of how the five major world religious traditions—Hinduism, Buddhism, Judaism, Christianity, Islam—interact with each other in our contemporary pluricultural world. Emphasis on how they diversely, and divergently, influence and inspire their practitioners in our 21st century global society. MnTC Goal 8.

PHIL 340 [4] Symbolic Logic (3)**Fall:** All Years **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 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.

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.

PHIL 358 [8] Peace and War (3)**Fall:** On Demand **Spring:** On Demand

War affects people around the globe, both when their nation is at war and when allies of their nation are at war. By studying the writings of people from different cultures and nations, we will examine both the causes of war and alternatives. During this class we will have occasion to question whether war is ever moral and whether there are any viable alternatives to war that might allow for more peaceful resolutions of conflict. We will finish the semester with a discussion of terrorism and how it should affect our beliefs about some of these issues. MnTC Goal 8.

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:** Odd Years **Spring:** Odd Years

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. Course requires an oral presentation. Students should have taken at least two courses in philosophy or obtain the consent of the instructor.

PHIL 408 Metaphysics (3)**Fall:** Odd Years **Spring:** Odd Years

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. Course requires an oral presentation. 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:** Odd Years **Spring:** Odd Years

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. Same as WS 495.

Prerequisite: PHIL 101 or PHIL 105 or PHIL 314.**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 Project (1)**Fall:** On Demand **Spring:** On Demand

As a capstone requirement for the major, students will complete a research paper with departmental presentation or submit a portfolio. A portfolio containing (1) four or five papers they have written for philosophy courses; (2) a philosophical self-assessment. See Department Chair for details.

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 101 Step Aerobics (1)

Fall: On Demand **Spring:** On Demand

This course provides instruction in the principles of aerobic exercise using a step and requires participation in daily exercise routines designed to develop aerobic fitness.

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: On Demand

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: On Demand **Spring:** On Demand

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 of 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:** On Demand

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 120 Tae Kwon Do I (1)

Fall: On Demand **Spring:** On Demand

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 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 129 Introduction to Camping (1)**Spring:** On Demand

This course will introduce students to the basic skills and techniques of camping.

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:** On Demand

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 136 Pilates (1)**Fall:** All Years **Spring:** All Years

This course offers comprehensive physical instruction on the pilates method of total body conditioning. This class will cover foundational pilates exercises, cardio pilates, and yagalates styles. This class is designed to increase flexibility and strength, while improving posture and balance. No prior experience necessary.

PE 137 Yoga I (1)**Fall:** All Years **Spring:** All Years

This course is designed to teach students the fundamentals of hatha yoga. Each class will cover different physical and philosophical aspects of yoga. This class requires daily active participation along with reading, course work, and discussion. No prior yoga experience necessary.

PE 138 Yoga II (1)**Fall:** On Demand **Spring:** On Demand

This course is designed for students to further advance their yoga practice. Practical work will focus on advanced physical postures. Coursework will involve a more in-depth study of all aspects of yoga non-physical.

Prerequisite: PE 137.**PE 139 Cardio Salsa (1)****Fall:** On Demand **Spring:** On Demand

Aerobic activity strengthens the heart and lungs, lowers total cholesterol, decreases stress, reduces the risk of some diseases and improves quality of life. The cardio classes provide you with all the benefits of aerobic activity in a fun and supportive group setting.

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:** On Demand

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:** On Demand **Spring:** On Demand

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 180S Junior Varsity Soccer (1)**Fall:** All Years **Spring:** All Years**PE 182 Varsity Weight Training (1)****Fall:** All Years **Spring:** All Years

Strength training program designed for participants in varsity athletics.

PE 183 Heritage Dance I (1)**Fall:** On Demand **Spring:** On Demand**PE 184 Heritage Dance II (1)****Fall:** On Demand **Spring:** On Demand**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 202 Strength and Conditioning Exercise Techniques (1)**Fall:** All Years

The purpose of this course is to understand the techniques (lifting, breathing, spotting) involved in properly performing strength and conditioning exercises.

PE 222 Life Guard Training (2)**Spring:** On Demand

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:** On Demand

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 255 Officiating Baseball (3)**Spring:** On Demand

This class is for the beginning umpire as well as an experienced one. It will cover all aspects; how to get into your local association, college association, and pro baseball. The rules and mechanics of umpiring baseball will be the focal point, thus preparing the novice to start, and the veteran to move up.

PE 256 Officiating Wrestling (2)**Spring:** On Demand

This course introduces the student to the role and function of the state high school leagues and local wrestling associations. The student will learn the high school code of wrestling rules and demonstrate knowledge of the mechanics of administering a high school wrestling contest.

PE 257 Coaching Youth Sports (2)**Fall:** On Demand **Spring:** On Demand

This course is designed to provide instruction, practice, and performance opportunities while working with the youth sporting activities in the Fargo-Moorhead community.

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 sport, and future outlook are considered. Same as WS 294.

PE 302 Strength and Conditioning Program Design (2)**Fall:** All Years

The purpose of this course is to design strength and conditioning training programs that are safe, effective, and maximize athletic performance.

Prerequisite: PE 202.**PE 310 [W] 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:** Odd Year On Demand s

This course is designed to provide students with the knowledge and skills necessary to administer, operate, maintain and design safe pool and waterfront programs. National Pool Operators Certification Test will be provided at the completion of the course.

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 Group Exercise Instruction (3)****Spring:** All Years

This class will prepare students to teach all kinds of group exercise classes. Group exercise instructors conduct group exercise sessions that include aerobic exercise, stretching and muscle conditioning.

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 367 Coaching Soccer (3)**Spring:** All Years

This course is designed to provide an overview of soccer as it relates to current soccer coaching methods and theories. Team management, coaching methods of technique and tactics along with match analysis will be examined.

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 402 Strength and Conditioning Practicum (1)**Fall:** All Years

This course is designed to provide students the opportunity to apply the principles of strength and conditioning training under the supervision of strength and conditioning specialists.

Prerequisite: PE 302.

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:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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:** Odd Years **Spring:** Odd Years

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 (1-12)****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. A maximum of 12 internship credits may be applied to the degree.

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 **Spring:** 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)

Fall: On Demand **Spring:** On Demand

This is a topical workshop and may be repeated when the topic varies.

Physical Science

PSCI 170 [3L] 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. Lab included. MnTC Goal 3.

PSCI 378 [10] Energy and the Environment (3)

Fall: On Demand **Spring:** On Demand

This course will examine the relationships between civilization, society and energy use. This will be accomplished by examining current and possible future energy sources as developed through the sciences of physics and chemistry and their applied technologies. It will then examine the applications of current sources and their effects on society and world ecosystems. Finally the course will examine how societies change and adapt, and look at possible steps to a sustainable energy and environmental future. MnTC Goal 10.

Physics

PHYS 101 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 [3L] 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. Lab included. MnTC Goal 3.

PHYS 140 Introduction to Sustainability (3)

Fall: All Years

This course introduces the concept of environmental sustainability using energy as a theme. We will examine how a variety of cultures utilize energy and how these cultures approach sustainability. Using a systems approach we will explore current energy trends and discuss future energy scenarios. Relevant topics from physics, chemistry, biosciences and earth science will be covered as they relate to sustainability. The tradeoffs (environmental as well as economic) associated with generating and using energy for different cultures will be examined. Finally we will explore what actions are needed to work towards a sustainable energy future. Students should have completed or be concurrently enrolled in College Algebra.

PHYS 160 [3L] College Physics I (3)

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. Knowledge of algebra and trigonometry required at the level in high school math; in terms of courses at MSUM the appropriate level is MATH 127 and 143, or 142, or 261 or higher. MnTC Goal 3.

PHYS 160L College Physics I Lab (1)

Fall: All Years

Laboratory component of College Physics I.

PHYS 161 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 188 Introduction to 20th Century Physics (3)

Fall: All Years

Introduction to physics topics in 20th century physics: thermodynamics, physical optics, and overview of atomic, molecular, and particle physics. A weekly hour-long laboratory period is included in regular class hours. Student must concurrently enroll in MATH 229 or MATH 261.

Prerequisite: MATH 142 or precalculus with trigonometry.

PHYS 190 Topics in Physics (1-3)

Fall: On Demand **Spring:** On Demand

A study of a specific area of physics.

PHYS 200 [3L] General Physics I (3)

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 PHYS 200L Gen Physics Lab and MATH 261. MnTC Goal 3.

PHYS 200L [3L] General Physics I Lab (1)

Fall: All Years

Lab component of General Physics.

PHYS 201 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 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, but only a total of 2 credits in any combination of seminar (PHYS 315), research (PHYS 300), and internship (PHYS 469) counts towards physics electives for both the major and the minor.

Prerequisite: PHYS 161 or PHYS 201.

PHYS 302 Sustainable Energy (3)**Fall:** All Years

This course provides an overview of the science involved in renewable energy and the applications of that science. The student will gain an understanding of the science involved in energy production, energy storage, and energy conservation. They will complete a group project in developing their own design in one of the sustainable technologies. This course does not count as an elective for the B.S. degree in Physics.

Prerequisite: CCGE 123 or MATH 127 or other College Algebra or higher course.

PHYS 305 [W] Experimental Physics I (2)**Fall:** All Years

Study of laboratory techniques and measuring instruments.

Prerequisite: PHYS 201.

PHYS 306 [W] Experimental Physics II (2)**Spring:** All Years

Study of laboratory techniques and measuring instruments.

PHYS 312 Analog Electronics (3)**Fall:** All Years

This course provides a general overview of analog electronics (electrical engineering), and includes a number of electronics laboratory activities completed during regular class hours. The course will cover circuit analysis (DC and AC), explore semiconductor devices (diodes and transistors), analog electronics (operational amplifiers) and timer circuits.

Prerequisite: PHYS 161 or PHYS 201 and MATH 229 or MATH 261.

PHYS 315 Physics Seminar (1)**Fall:** All Years **Spring:** All Years

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. Course is repeatable, but only a total of 2 credits in any combination of seminar (PHYS 315), research (PHYS 300), and internship (PHYS 469) counts towards physics electives for both the major and the minor.

Prerequisite: PHYS 160 or PHYS 200.

PHYS 318 Biophysics and Medical Imaging (3)**Spring:** All Years

This course is a calculus-based study of biophysics and medical imaging techniques and topics covering optical microscopy, computed (axial) tomography (CT or CAT), magnetic resonance imaging (MRI), ultrasound imaging and positron emission tomography (PET). Techniques in real space and Fourier space imaging will be covered including resolution, aberrations and exposure limitations. Special attention will be given to radiation effects and nuclear medicine topics. This course will use cooperative learning techniques along with guided labs covering selected techniques.

Prerequisite: PHYS 202.

PHYS 322 Elementary Modern Physics (3)**Spring:** All 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)**Spring:** Odd Years

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:** All Years

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:** Even Years

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:** Odd 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 370 Electromagnetic Theory (4)**Spring:** Even Years

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)****Spring:** Odd Years

Principles of celestial mechanics, central force motion, two body problem, N-body problem, prediction and determination of orbits, perturbations.

Prerequisite: PHYS 330.**PHYS 385 [8] Hiroshima Peace Studies Tour (3)****Spring:** Even Years

This course is planned around a one week trip to Hiroshima, Japan. Topics will include: the science of radiation and nuclear weapons; the experiences of those who lived through the atomic bombing of Hiroshima and Nagasaki; how these experiences are relevant to the rest of humanity; and Japanese history, language and culture. Students will pursue individual projects, and perform field work assignments in Hiroshima. Same as JAPN 385. MnTC Goal 8.

PHYS 390 Topics in Physics (1-3)**Fall:** On Demand **Spring:** On Demand

Students may register more than once when topic varies.

PHYS 399 Thermodynamics (3)**Fall:** Odd Years

Elements of classical thermodynamics, kinetic theory and statistical mechanics

Prerequisite: PHYS 330.**PHYS 410 Astrophysics (3)****Fall:** Odd Years

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. Same as AST 410.

Prerequisite: PHYS 322.**PHYS 430 Quantum Mechanics (3)****Spring:** Odd Years

Application of quantum mechanics to atoms and molecules.

Prerequisite: MATH 366, PHYS 322, PHYS 350.**PHYS 440 Secondary Science Teaching Methods (3)****Spring:** All Years

For secondary education students. Material and methods typical to high school physics. Same as BIOL 440 and CHEM 440.

PHYS 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.

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 Internship (1-12)**Fall:** On Demand **Spring:** On Demand

Supervised practical work experience at an approved business, industry or workplace where physics principles are used. The student must work a minimum of 40 hours for each credit earned. During the semester, this is equivalent to 3 hours per week for each credit. Enrolling in 4 or more credits requires department approval. Course is repeatable, but only a total of 2 credits in any combination of seminar (PHYS 315), research (PHYS 300), and internship (PHYS 469) counts towards physics electives for both the major and the minor.

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 [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. MnTC Goal 5.

POL 120 [5] American National Government and Politics (3)

Fall: All Years **Spring:** All Years

This course examines the United States national government; how and why it works. This course will analyze the role of institutions on decision-making and the consequences for public policy. It will address what political science and other social sciences tell us about factors that influence politics, government and the policies that result from the process. MnTC Goal 5.

POL 150 [8] Comparative Political Traditions (3)

Fall: All Years

Comparative survey of the ways in which human societies organize themselves into political systems as influenced by their geography, religions, resources, and context. MnTC Goal 8.

POL 151 [8] Contemporary Comparative Politics (3)

Spring: All Years

Comparative survey of modern global institutions and their operations, independently and as part of a wider international system. MnTC Goal 8.

POL 160 [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. MnTC Goal 5.

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 State and Local Government (3)

Fall: On Demand **Spring:** On Demand

A study of the basic functions, structure, procedures and problems of American state and local government, with an emphasis upon intergovernmental relations.

POL 230 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 International Protection of Human Rights (3)

Fall: On Demand **Spring:** On Demand

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 International Terrorism (3)

Fall: On Demand **Spring:** On Demand

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: On Demand **Spring:** On Demand

Examination of an issue at an introductory level. May be repeated as topic varies.

POL 310 Political Science Research Methods (3)

Spring: 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 314 [8] War and the Modern World (3)

Spring: All Years

This course examines world military affairs and patterns of warfare from mid-eighteenth century to the present day. Particular attention will be given to the interplay of cultural, political, and technological factors in the formation of military institutions and in the experience of warfare by diverse constituencies in the participating groups. MnTC Goal 8.

POL 315 [9] Political Thought (3)

Fall: All Years

Selected reading and analysis of the major ideas and concepts that have influenced the evolution of modern political ideas. MnTC Goal 9.

POL 317 Strategic Games and Game Theory (3)**Fall:** On Demand **Spring:** On Demand

This course give students an introductory buy solid exposure to the main topics in cooperative and non-cooperative game theory. Game theory has two branches: cooperative and non-cooperative. Cooperative game theory is used to study strategic decision making when the actors are allowed to make binding agreements to take certain actions; non-cooperative game theory is used to study situations where the actors cannot, and the actors choose their actions according to their preferences. Students will participate in representative simulation activities as well as learn the tools to design their own.

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 327 Campaigns and Elections [9] (3)**Fall:** All Years

This course examines the politics of campaigns and elections in the United States. Topics include campaigns in democratic theory, candidate selection, campaign finance, campaign strategy and organization, the role of parties and interest groups, public opinion polling, and campaign communication. MnTC Goal 9.

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 Years

This 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. Same as CJ 335.

Prerequisite: CJ 200 or POL 230.**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. Same as CJ 337.

Prerequisite: ACCT 205 or POL 230 or CJ 200.**POL 340 Public Administration (3)****Fall:** Even 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 343 Web Politics (3)**Fall:** On Demand

This course examines the ever-changing role of the Internet in politics. We will explore the role of the web in dispersing political ideas/information, encouraging participation, reaching voters, candidates and elected officials and what government rules and international agreements affect how the web works and in whose favor. Since this is a new area, the class will be exploring many questions ourselves and what are the views of political scientists, political activists, parties, interest groups and elected officials about the role of the web and how it has or might change politics. We will examine both theoretical and practical aspects of these topics.

POL 345 [10] Environmental Politics (3)**Fall:** On Demand **Spring:** On Demand

The course examines how national and international politics affects the success (and failure) of environmental policies. Since environmental policy is shaped in political arenas by a myriad of social and economic forces combined with observations of the natural world, the course content examine environmental issues with more of an inter-disciplinary approach. Students will gain an intellectually more mature understanding of how environmental policy is made, modified and implemented (or not) in response to political demands that often ignore the scientific realities of the environment. MnTC Goal 10.

POL 349 Great Power Politics (3)**Fall:** All Years

International survey of major wars, the development of states' military and financial capacity, the course of imperial expansion and retreat, diplomatic alignments and alliances, arrangements for international trade and investment, as well as efforts to create international institutions by major national powers in the modern world.

POL 350 Comparative Governments of Western Europe (3)**Spring:** All Years

Comparative examination of the political systems of Britain, France, Germany, and Italy; trans-national cooperation among them.

POL 352 [8] Political Problems in Developing Countries (3)**Spring:** All Years

Social and economic conditions affecting political institutions in the developing countries. The Third World in international relations and the political economy of development. MnTC Goal 8.

POL 354 U.S. Defense Policy (3)**Fall:** All Years

Introduction to the concepts and issues in the analysis of U.S. defense policy. Topics include development of contemporary defense policy, analysis of the external environment, strategic considerations, the use of force, and defense decision making.

POL 356 Comparative Governments of Russia and Eastern Europe (3)**Fall:** On Demand **Spring:** On Demand

Introduction to the politics and policies of Russia and the Eastern European states. Topics include social and cultural origins or politics, national attributes, political processes and institutions, and short and long-term policy goals.

POL 360 American Foreign Policy (3)**Spring:** All Years

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)**Fall:** On Demand **Spring:** On Demand

This 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 364 [8] International Migration (3)****Fall:** On Demand **Spring:** On Demand

This course is designed to develop a good knowledge of the politics, economics and international law and organizations of international migration. Same as INTL 364. MnTC Goal 8.

POL 366 International Conflict Resolution (3)**Fall:** On Demand **Spring:** On Demand

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)**Fall:** On Demand **Spring:** On Demand

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 370 [8] Understanding International Security (3)****Fall:** On Demand **Spring:** On Demand

This course highlights a series of traditional and non-traditional security issues that have emerged on the Security Studies agenda. The course begins with traditional security concerns such as the threat and use of force, and then moves to the non-traditional issues that have emerged as the subject area has expanded. Same as INTL 370. MnTC Goal 8.

POL 372 [9] International Justice (3)**Fall:** On Demand **Spring:** On Demand

This course explores the multitude of international courts, tribunals and special courts, which have been established since the Nuremberg and Tokyo Tribunals after World War II to address protection of human rights and violations of international criminal law. It is intended to take a critical look at such course and explore the role and value of such courts in promoting and protecting human right issues. MnTC Goal 9.

POL 380 Politics of Great Britain (3)**Fall:** On Demand **Spring:** On Demand

The development and workings of the British constitutional monarchy, the empire and commonwealth as political actors, the functions of the parliament and devolved parliaments of Great Britain and the attendant judiciary and bureaucracy.

POL 390 Topics in Political Science (1-3)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic varies.

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 Internship (1-12)**Fall:** All Years **Spring:** All Years

A supervised practical experience in political science. A maximum of four credits may be used as electives to fulfill the "Major Requirements in Political Science", and a maximum of 12 internship credits may be applied to the degree.

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.

Psychology

PSY 113 [5] General Psychology (3)

Fall: All Years **Spring:** All Years

Survey of content and methods of modern psychology. MnTC Goal 5.

PSY 202 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 [5] 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. MnTC Goal 5.

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 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 Health Psychology (3)

Fall: Odd Years **Spring:** Odd Years

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 275 Behavior Modification (3)

Fall: On Demand **Spring:** On Demand

Application of basic learning principles to the study of behavior change across community, home and school settings. Topics include reinforcement, extinction, punishment, shaping, self-management, and clinical behavior analysis.

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: Odd Years **Spring:** Odd Years

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 **Summer:** 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 Psychology of Women (3)

Fall: Odd Years **Spring:** Odd Years

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: Odd Years **Spring:** Odd Years

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: On Demand **Spring:** On Demand

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)

Spring: All Years

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 [10] Environmental Psychology (3)**Fall:** All Years **Spring:** All Years

The scientific study of the relationship between humans and their social and physical environment from a psychological perspective and other related fields. Topics include: environmental perception and cognition, crowding, noise, privacy, urban environments, the psychology of sustainability and designing more habitable environments. MnTC Goal 10.

PSY 330 [W] 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)****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)**Spring:** Even 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 and have junior standing 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 and have junior standing prior to enrolling in this class.

PSY 417 Child Psychopathology (3)**Fall:** All Years

Includes an overview of the characteristics, classification, and developmental course of disorders of childhood and adolescence. Introduces an integrative approach incorporating different theoretical models. Considers biological, familial, social and cultural contexts and individual differences. Prevention and intervention approaches discussed.

Prerequisite: 9 credits of Psychology courses.**PSY 430 [W] 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 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 and have junior standing or have the consent of the instructor.

PSY 463 Abnormal Psychology (3)**Fall:** All Years **Spring:** 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 and junior standing or have the consent of the instructor. It is strongly recommended that students have taken PSY 261 prior to taking this course.

PSY 465 Clinical Psychology (3)**Fall:** All Years **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 and have junior standing or have the consent of the instructor.

Prerequisite: PSY 261 or PSY 463.**PSY 469 Internship (1-12)****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. A maximum of 12 internship credits may be applied to the degree.

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 and have junior standing 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 and have junior standing prior to enrolling in this class.

Prerequisite: PSY 330.**PSY 490 Topics in Psychology (1-3)****Fall:** On Demand **Summer:** 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 and have junior standing 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.

School of Teaching and Learning

STL 226 Social Studies Content for Elementary Teachers (2)

Fall: All Years **Spring:** All Years **Summer:** On Demand
In this course, students will receive background on the content of social studies with special emphases on the fields of geography, history, government and economics, which are the backbone of the elementary and middle school social studies curriculum. Other parts of the social studies will also be discussed. In addition, students will receive background on the history, government and culture of Minnesota's American Indian groups.

STL 291 Early Literacy (3)

Fall: All Years **Spring:** All Years **Summer:** All Years
This course provides the learner with an overview of early literacy development in children ages birth to 6. Attention will be focused on the continuum of early literacy development; the relationship between language acquisition and early literacy; the importance of promoting literacy development in all children, particularly those with special needs; the impact of sociological and cultural factors on literacy development; and the wide variety of home and school experiences that provide children with a solid foundation of success for learning to read and write.

STL 327 Technology in Education (2)

Fall: All Years **Spring:** All Years **Summer:** All Years
This course provides a balanced look at technology and its effect on people and society by reviewing social, legal, ethical, and human issues faced by educators and students. Teacher candidates will work with various instructional technologies to explore communication, collaboration, instruction and assessment in P-12 classrooms. The course will discuss protection of intellectual property and safety/privacy issues in the use of educational technologies.

STL 330 Child Development and Learning for Teachers (3)

Fall: All years **Spring:** All Years
This course explores the growth, development and learning of children from conception through adolescence. It addresses the relationship between development and learning and explores implications for teaching. Growth and learning are explored through a matrix of developmental domains and specific content knowledge areas.

STL 341 Reading and Writing Methods K-3 (3)

Fall: All Years **Spring:** All Years **Summer:** All Years
First in a series of two methods courses where candidates will learn and apply knowledge and pedagogy that supports the development of reading and writing in young children. By knowing and understanding the ages and stages of literacy development, candidates will begin to explore effective instructional practices focusing on integrating the five areas of reading within a balanced literacy instructional framework for primary age children. A response to intervention approach to instruction will be integrated so candidates will engage in instructional best practices to meet all children's unique learning needs.

STL 388 Classroom Assessment (3)

Fall: All Years **Spring:** All Years
In this course, we examine assessment broadly as we examine principles of effective and appropriate assessment that apply to children from birth to grade eight and across multiple subject areas. Principles of assessment taught in this course include: assessment for learning, assessment of learning, users of assessment, purposes of assessment, bias, validity, reliability, assessment targets and methods, and standardized vs. informal assessment. This course also provides an overview of the major types of assessment methods used by classroom teachers to evaluate student performance and improve instruction. Specifically, the course will address the use, construction, and interpretation of assessments that utilize the following methods: selected response, essay, performance, and personal communication. We will assess students' dispositions as well as the examination and basic interpretation of standardized tests.

STL 413 Effective Teaching (3)

Fall: All Years **Spring:** All Years
In this course, the candidate continues to develop an understanding of how students learn and how students develop intellectually, socially, and emotionally. Candidates will understand how to meet the needs of culturally and/or developmentally diverse learners across the scope and content of the curriculum. Candidates will identify and design instructional approaches which nurture critical thinking skills, model problem solving, and encourage student achievement. The candidate will develop, implement, and evaluate lesson plans which meet the individual and developmental needs of learners. Candidates will explore the use of educational technology for motivation, instruction, and assessment. Candidates will model effective and respectful communication techniques. The candidate will understand the role of special education and the varying models of special education services including co-teaching with the general education teacher. The candidate will demonstrate an understanding of the role of the individual education plan for students with identified special education needs and the role of the classroom teacher in adapting instruction and curriculum according to the IEP.

STL 428 Building Partnerships (3)**Fall:** All Years **Spring:** All Years

This course will focus on the knowledge, skills, and dispositions necessary for building relationships in the field of education. Understanding issues faced by contemporary families and their relationship to schools will be studied. Barriers, strategies, communication, consultation and cross-cultural sensitivity are covered. The teacher's role in building effective relationships with families and other professionals is emphasized.

STL 441 Children's Literature: Content and Methods (4)**Fall:** All Years **Spring:** All Years

This course requires close reading and study of children's literature--folktales, myth, hero tales, picture books, poetry, modern fantasy, biographies and realism. Emphasis is placed 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.

STL 442 Advanced Reading and Writing Methods P-3 (3)**Spring:** All Years

This is the second methods course for teaching reading and writing to primary age children. In this course candidates will deepen their knowledge of how to effectively teach reading and writing in the primary grades. STL 442 includes a strong emphasis on the role of assessment in the teaching and learning process, exposes candidates to a variety of literacy assessments, and continues to build their understanding of a response to intervention approach to instruction.

STL 443 Learning Environment (3)**Fall:** All Years **Spring:** All Years **Summer:** All Years

In this course, students will be instructed on the impact the physical, social, communicative, academic, and behavioral needs of the classroom community. During this course, candidates will demonstrate competencies drawn from the MN Board of Teaching standards. Competencies associated with this course will be applied and evaluated in a rigorous field experience.

STL 474 Methods in Teaching Elementary Science and Environmental Education (3)**Fall:** All Years **Spring:** All Years

Methods course for teaching science and environment education in elementary settings. Emphasizes inquiry learning, methods of instruction and assessment, place-based environmental education, integration across the curriculum, safety, and responsiveness to student diversity. Recommended Co-Requisite: STL 476.

STL 475 Teaching Reading and Writing Grades 4-6 (3)**Fall:** All Years **Spring:** All Years

Methods course for teaching science and environment education in elementary settings. Emphasizes inquiry learning, methods of instruction and assessment, place-based environmental education, integration across the curriculum, safety, and responsiveness to student diversity. Recommended Co-Requisite: STL 476.

STL 476 Methods for 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. Recommended Co-requisite STL 474.

STL 481E Student Teaching: Elementary (8-16)**Fall:** All Years **Spring:** All Years **Summer:** On Demand

Supervised student teaching experience in an elementary school setting. Includes weekly seminar.

Science**SCI 110 Science Technology and Society (3)****Fall:** Odd Years **Spring:** Odd Years

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: BIOL 102, BIOL 104.

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 120, PSY 202, and BIOL 104 is required.

Prerequisite: PSY 113 or SOC 110.

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 400 [W] 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. Admission to the Social Work program is required. Prior or concurrent registration in SOC 350 is required.

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.

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 400 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 400 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. Prior or concurrent registration in SW 460 is required.

Prerequisite: SW 420.**SW 460 [W] 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. Admission to the Social Work program is required. Prior or concurrent registration in SW 450 is also required.

Prerequisite: ECON 100, POL 120, SW 400, SW 420, SW 430.**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. Prior or concurrent registration in SW 470 is required.

Prerequisite: SW 400, 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. Prior or concurrent registration in SW 469 is required.

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 (1-3)****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 400.**SW 499 Social Work Workshops (1-3)****Fall:** On Demand **Spring:** On Demand

Workshops in the Department of Social Work to meet specific needs of students and agency personnel in the community.

Sociology

SOC 110 [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. MnTC Goal 5.

SOC 120 [5] Social Psychology (3)

Fall: All Years **Spring:** All Years

This course examines the relationship between society and individuals and the methods, theories, and findings of research in social psychology. Special attention is given to the social properties of mind, self, and human development. MnTC Goal 5.

SOC 210 [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. MnTC Goal 5.

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. Same as WS 219.

Prerequisite: SOC 110.

SOC 220 Social Deviance (3)

Spring: All Years

Theory, research and commentary on the sociology of deviant behavior.

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. Same as CJ 300.

Prerequisite: SOC 220.

SOC 301 Delinquent Behavior (3)

Spring: All Years

Delinquent behavior and programs for its prevention, treatment and control. Same as CJ 301.

Prerequisite: SOC 110 or SOC 220.

SOC 302 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. Same as CJ 303.

Prerequisite: SOC 110 or CJ 200.

SOC 304 Community Corrections (3)

Fall: On Demand **Spring:** On Demand **Summer:** On Demand
Sociological analysis of community corrections, emphasizing probation and parole. Same as CJ 304.

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 [W] 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 [5] 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. MnTC Goal 5. Same as WS 310.

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 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 319 [10] Society and the Environment (3)****Spring:** All Years

Throughout time societies have struggled to maintain an appropriate balance between human groups and the physical environment. This course analyzes the social causes of environmental problems in an interdisciplinary fashion. Ecology, policy, politics, culture, ethics and history are all viewed through a sociological lens to explain the relationship between humans and the physical environment. The main goal of this course is to demonstrate the complexities of relationships between people and the environment. It also focuses heavily on the processes of social change. MnTC Goal 10.

SOC 320 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 WS 305.

Prerequisite: SOC 110.**SOC 322 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 Social Movements (3)****Fall:** Odd Years **Spring:** Odd Years

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 Sociology of Religion (3)****Fall:** Odd Years **Spring:** Odd Years

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 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 WS 333.

Prerequisite: SOC 110.**SOC 334 [7] Lesbian, Gay, Bisexual, Transgender, and Queer Issues (3)****Spring:** Even Years

Seminar course on the historical and social contexts of personal, cultural, and political aspects of lesbian, gay, bisexual, transgender, and queer (LGBTQ) life. Same as WS 334. MnTC Goal 7.

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 351 [W] 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 [W] 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 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 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 407 [W] Contemporary Sociological Theory (3)****Fall:** Odd Years **Spring:** Odd Years

This advanced undergraduate seminar introduces students to contemporary sociological theory. It centers on the development of the major theoretical frameworks used by contemporary sociologists to understand the late-modern world. The starting point is the 1920s, and continues to the last fin-de-siecle and beyond. Theoretical frameworks considered includes the following: structural functionalism, systems and network theories, critical theory, rational choice and exchange theories, structuralism, structuration theory, critical race theory, feminist epistemologies, theories on power and the body, and the influence of post-modern theory.

Prerequisite: SOC 110.**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 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:** Odd Years **Spring:** Odd Years

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." Same as WS 416.

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 (1-12)****Fall:** All Years **Spring:** All Years

A supervised practical experience in sociology. A maximum of 12 internship credits may be applied to the degree. Internship 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 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 Spanish Lab also required.)

SPAN 101L 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 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 or equivalent proficiency. Students may demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures (www.mnstate.edu/language).

SPAN 102L 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: Odd Years **Spring:** Odd Years

This course is taught in English. It provides an introduction to the study of Iberian culture and civilization. Iberia is the area now occupied by Spain & 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. MnTC Goal 7.

SPAN 122 [7] Introduction to Latin American Culture and Civilization (3)

Fall: Odd Years **Spring:** Odd Years

This course is taught in English. It provides an 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. MnTC Goal 7.

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 [8] 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. Students who intend to pursue a major or minor in Spanish must take SPAN 211 concurrently with this class. Students must demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures (www.mnstate.edu/language/Spanish.cfm). MnTC Goal 8.

SPAN 202 [8] 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. Students who intend to pursue a major or minor in Spanish must take SPAN 212 concurrently with this class. Students must demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures (www.mnstate.edu/language/Spanish.cfm). MnTC Goal 8.

SPAN 211 [8] 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. Students who intend to pursue a major or minor in Spanish must take SPAN 201 concurrently with this class. Students must demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures

(www.mnstate.edu/language/Spanish.cfm). MnTC Goal 8.

SPAN 212 [8] 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. Students who intend to pursue a major or minor in Spanish must take SPAN 202 concurrently with this class. Students must demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures

(www.mnstate.edu/language/Spanish/cfm). MnTC Goal 8.

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.

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 [W] Spanish Grammar & Composition I (3)**Fall:** All Years

Intensive study, practice, and review of Spanish grammar, vocabulary, and writing. Students who intend to pursue a major or minor in Spanish must take SPAN 311 concurrently with this class. Transfer students must demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures

(www.mnstate.edu/language).

Prerequisite: Span 202 or equivalent proficiency and SPAN 212.

SPAN 302 [W] 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 or equivalent proficiency and SPAN 311. Students may demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures (www.mnstate.edu/language).

SPAN 311 Advanced Spanish Conversation I (3)**Fall:** Odd Years **Spring:** Odd Years

The conversational activities and assignments in this intermediate level class are intended to help students become more proficient in speaking Spanish. Students who intend to pursue a major or minor in Spanish must take SPAN 301 concurrently with this class. Transfer students must demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures (www.mnstate.edu/language).

Prerequisite: Span 202 or equivalent proficiency and SPAN 212.

SPAN 321 Iberian Culture and Civilization (4)**Spring:** 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. SPAN 301 or equivalent proficiency is a prerequisite. Students may demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages and Cultures.

Prerequisite: SPAN 301.

SPAN 322 Latin American Culture and Civilization (4)**Spring:** 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. SPAN 301 or equivalent proficiency is a prerequisite. Students may demonstrate proficiency by taking the online Spanish Placement Exam on the website of the Department of Languages & Cultures.

Prerequisite: SPAN 301.

SPAN 340 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 321 or SPAN 322.

SPAN 341 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 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 340.**SPAN 351 Spanish Phonetics and Phonology (4)****Fall:** Odd Years **Spring:** Odd Years

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.

Prerequisite: 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 [W] 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 Advanced Latin American Culture and Civilization (4)****Fall:** On Demand **Spring:** On Demand

In depth analysis and discussion of the culture and civilization 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 340.**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 340.**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 351.**SPAN 461 Introduction to Spanish Translation I (4)****Fall:** Odd Years **Spring:** Odd Years

Theoretical foundations and introductory exercises. The course includes Spanish to English and English to Spanish translation.

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:** Odd Years **Spring:** Odd Years

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 225 Individuals with Exceptionalities (3)

Fall: All Years **Spring:** All Years **Summer:** All Years
This course traces the path of disability laws beginning with the Civil Rights movement and preceding court cases and provides an introduction to the recognition, incidence, educational, and lifelong needs of individuals with exceptionalities. Personal and societal views regarding cultural and linguistic diversity will be explored. A wide range of educational services are studied with emphasis on the shared responsibility of all professionals in education, community, and professional settings, and introduces students to the wide-range of professionals involved with exceptional individuals.

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 225.

SPED 414 [W] IEP Policies and Methods (2)

Fall: All Years **Spring:** All Years
This course will address key issues regarding the collaborative development of the Individual Education Plan (IEP). The IEP is the cornerstone of services for students identified as having a specific disability in need of special education services. Students will learn best practices for collaborative IEP development and creation. The development of a clearly written document including all parts of the IEP will be drafted and finalized into accurate, sound documents.
Prerequisite: SPED 225 and SARTE admission.

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.

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 225.

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 431 Survey of Autism Spectrum Disorders (2)

Fall: All Years
This course is designed to immerse the learner in text, research, and data describing the characteristics and defining qualities of Autism Spectrum Disorder. The significance of early identification and intervention across the five primary autism spectrum disorders will be analyzed. Best practices for intervention including collaboration, communication, and observation strategies will be introduced.

SPED 432 Identification and Assessment of Autism Spectrum Disorders (3)

Spring: All Years
This course is designed to immerse the learner in current topics regarding effective screening and assessment for students with Autism Spectrum Disorders (ASD). Students will examine the eligibility criteria for ASD and will become skilled in the identification and assessment of individuals with autism spectrum disorders. Students will become familiar with the selection of, use of, and interpretation of appropriate screening and assessment tools and will be able to create a comprehensive evaluation report based upon assessment results.
Prerequisite: SPED 431.

SPED 434 Instructional Strategies for Learners with Autism Spectrum Disorders (3)

Fall: All Years
This course will focus on identifying and meeting the educational needs of students with Autism Spectrum Disorders across educational environments. Participants will learn to develop effective instructional and transitional strategies based upon a student's individual strengths and needs. Curriculum content will address social, communication, academic and functional skills domains.
Prerequisite: SPED 431.

SPED 435 Asperger's Disorder: Instructional Strategies (2)**Spring:** All Years

This class will present content specific to the needs of teachers who assess and instruct elementary, middle, and high school students having a diagnosis of Asperger's Syndrome. The course will provide students with an opportunity to study Asperger's Syndrome in the following areas: instructional theory and research, sensory needs, social skills and communication, behavioral profiles, and assessment.

Prerequisite: SPED 431.**SPED 436 Communication Strategies and Social Skills for Students with ASD (2)****Spring:** All Years

This course will focus on identifying and meeting the social and communication needs of students with Autism Spectrum Disorders. Course participants will learn to develop effective interventions and education strategies for teaching communication skills while addressing and supporting the development and the maintenance of social skills. Curriculum content will address skills across environments.

Prerequisite: SPED 431.**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 trans-disciplinary approaches for special needs students/clients and their caregivers. This course should be taken concurrently with Practicum course or Student Teaching.

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 455 Characteristics of Students with Learning and Behavior Problems (4)**Fall:** All Years **Spring:** All Years

A study of definitions, identification, assessment, characteristics, educational strategies, and program models for children and youth with learning disabilities and/or emotional/behavior disorders.

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 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 225.**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 467A Secondary Practicum: Mild Disabilities (3)**Fall:** All Years **Spring:** All Years

Directed practicum experience in secondary level special education resource room setting. Students will spend 225 hours in schools. SPED 464 is to be taken concurrently. Concurrent course substitutions require instructor consent.

SPED 467D DD Middle/Secondary (Mild) Competency Based Field Experience (4)**Fall:** All Years **Spring:** All Years

Directed student teaching at the secondary level in special education DD Program for students with mild developmental disabilities. Students will spend the equivalent of four weeks, full time in a middle school or secondary setting. STL 451 Student Teaching Elementary (8) is taken concurrently for dual majors. Prerequisite or concurrent course substitutions require instructor consent of the DD licensure coordinator.

Prerequisite: SPED 463, 463L, SPED 456, SPED 470.**SPED 468B SLD Middle/Secondary Competency Based Field Experiences (4)****Fall:** All Years **Spring:** All Years

Directed student teaching at the secondary level in special education SLD Program. Students will spend the equivalent of four weeks, full time in a middle school or secondary setting. STL 451 Student Teaching Elementary (8) is taken concurrently for dual majors. Prerequisite or concurrent course substitutions require instructor consent of the SLD licensure coordinator.

Prerequisite: SPED 463, SPED 463L, SPED 470, SPED 475.**SPED 468C E/BD Middle/Secondary Competency Based Field Experiences (4)****Fall:** All Years **Spring:** All Years

Directed student teaching at the secondary level in special education E/BD Program. Students will spend the equivalent of four weeks, full time in a middle school or secondary setting. STL 451 Student Teaching Elementary (8) is taken concurrently for dual majors. Prerequisite or concurrent course substitutions require instructor consent of the E/BD licensure coordinator.

Prerequisite: SPED 463, SPED 463L, SPED 470, SPED 478.**SPED 468D DD Middle/Secondary (Severe) Competency Based Field Experience (4)****Fall:** All Years **Spring:** All Years

Directed student teaching at the secondary level in special education DD Program for students with severe developmental disabilities. Students will spend the equivalent of four weeks, full time in a middle school or secondary setting. STL 451 Student Teaching Elementary (8) is taken concurrently for dual majors. Prerequisite or concurrent course substitutions require instructor consent of the DD licensure coordinator.

Prerequisite: SPED 463, SPED 463L, SPED 470, SPED 456.**SPED 469 Internship (1-12)****Fall:** On Demand **Spring:** On Demand

Directed field experience working with individuals with disabilities. Prerequisite substitutions require consent of the faculty advisor. A maximum of 12 internship credits may be applied to the degree.

Prerequisite: SPED 225.**SPED 470 Secondary Services & Transitional Planning (4)****Fall:** All Years **Spring:** All Years

Transitional planning for secondary students with disabilities including transitional assessment, programming and planning based on individual cognitive, affective and behavioral characteristics will be covered in depth in this course. Students will also acquire knowledge of post-secondary service options and funding sources.

Prerequisite: SPED 225.**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 225.**SPED 475 Informal Assessment/Teaching Strategies: Students with Learning Disabilities (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 455, SPED 463 or co-enrolled.**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 455, SPED 471, or 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 225.**SPED 494 [W] 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 225.

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 225.

Speech/Language/Hearing Sciences

SLHS 101 Survey of Speech-Language-Hearing Disorders (3)

Fall: All Years **Spring:** All Years

The study of the basic anatomy and physiology of speech and hearing including basic acoustics. Overview of the processes of speech, language and hearing, the normal development of speech and language in children, and the major speech, language and hearing disorders. The role of speech-language pathologists and audiologists will be discussed.

SLHS 150 Observation of the Practice in Speech Language and Hearing Sciences (2)

Fall: All Years **Spring:** All Years

Observation of the Practice in SLHA provides the opportunity for observation hours as required by the American Speech and Hearing Association. The SLHS 150 course supports guided observation to increase the understanding of what may be observed in the practice of Speech Language and Hearing Sciences, why it is relevant and how observations serve as a building block to a future role as a clinician. Students are provided general background knowledge relating to the field and practice of Speech Language and Hearing Sciences.

SLHS 201 Linguistic Phonetics (3)

Spring: All Years

The science and theory behind the production and perception of the sounds of the English language; Introduction to Clinical and Linguistic Phonetics; the use of the International Phonetic Alphabet (IPA) including vowel and consonant symbols, diacritical markings, and stress/intonation; application of phonemic analysis and an introduction to phonology and phonological principles including discrimination of normal and disordered sound productions; Introduction to anatomy and physiology of sound production.

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 273 Hearing/Vestibular Disorders & Assessment (4)

Fall: All Years

The study of auditory/vestibular anatomy and physiology as well as the disorders of the auditory and vestibular system. Clinical measurement of the auditory and vestibular mechanisms. In-class and assignment experience administering protocols for testing and screening the auditory pathway.

Prerequisite: SLHS 101.

SLHS 301 American Sign Language and Deaf Culture I (3)

Fall: Odd Years **Spring:** Odd Years

An introduction to the Deaf culture and American Sign Language, including issues of nonverbal communication through pantomime and body movement. MnTC Goal 7.

SLHS 302 American Sign Language and Deaf Culture II (3)

Fall: Odd Years **Spring:** Odd Years

Continuation of SLHS 301 including communicating personal and family information, giving directions and descriptions, and asking questions. Deaf culture will be further emphasized in this course through expanded contact with the deaf community.

Prerequisite: SLHS 301.

SLHS 321 Articulation and Phonological Disorders (3)

Fall: All Years

The nature, etiology, assessment and treatment of speech sound differences and disorders in children.

Prerequisite: SLHS 201, SLHS 202.

SLHS 322 Language Disorders in Children (3)

Spring: All Years

The nature, etiology, assessment, and treatment of language disorders in children.

Prerequisite: SLHS 204.

SLHS 343 Clinical Procedures (3)

Spring: 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 321, SLHS 322.

SLHS 347 Augmentative and Alternative Communication and Literacy Acquisition (3)

Fall: Alternate Years

The nature of augmentative and alternative communication (AAC) systems and other assistive technologies for persons with special needs across the life span. Includes components of AAC systems, and basic assessment and intervention procedures.

Additionally, includes an overview of typical literacy acquisition.

Prerequisite: SLHS 204.

SLHS 402 Neuroanatomy/Physiology of Communication and Swallowing (3)**Fall:** All Years

The study of the Central, Peripheral, and Autonomic Nervous Systems. Lab includes probing of human brain specimens to identify the above structures. Neuroanatomy and Physiology of Swallowing, Speech, Language, Hearing, Somatosensory System, and the Primary Sensory and Motor Cortices. Introduction to Dysphagia, Aphasia, Dysarthria, Apraxia, Traumatic Brain Injury and the Neuroanatomy affected by these conditions as they relate to the work of the Speech-Language Pathologist, Speech Scientist, and Audiologist.

Prerequisite: SLHS 202.**SLHS 421 Speech Science and Instrumentation (3)****Spring:** Alternate Years

The study of speech acoustics and physiology, incorporating both voice and articulatory aspects of speech signal production, as well as the instrumentation needed for measurement of speech acoustic signals.

Prerequisite: SLHS 201, SLHS 202.**SLHS 424 Childhood Stuttering (2)****Fall:** Alternate Years

A study of the theories of disfluency, fluency development and stuttering in children. Assessment, prevention and treatment of childhood stuttering is included.

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 448 Professional Issues and Clinical Practice Management (3)****Spring:** Alternate Years

The course will include a survey of professional issues facing today's professional including such topics as credentialing, ethics and legal considerations. Service delivery in schools, health care and private practice will also be addressed.

Prerequisite: SLHS 343.**SLHS 473 Rehabilitation Audiology (4)****Spring:** All Years

A survey of the principles of audiological and vestibular intervention for children through adults. Special emphasis on amplification technology.

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 (3)**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.

SLHS 499 Topical Workshop (1-3)**Fall:** On Demand **Spring:** On Demand

Teaching English as a Second Language

TESL 451 English Structures (3)

Fall: All Years

An overview of English as a linguistic system with comparison to other languages and a survey of the history of English. Includes phonetics, phonology, morphology, syntax, semantics, pragmatics, sociolinguistics, historical linguistics, language acquisition, and the application of these areas of knowledge to the ESL classroom.

TESL 454 Grammar for Teaching English as a Second Language (3)

Spring: All Years

In-depth study of English grammar with specific focus on syntax, including its application to the ESL classroom.

Prerequisite: TESL 451.

TESL 455 Oral Discourse Structures (3)

Spring: All Years

In-depth study of how English is structured in oral contexts as well as methods and strategies for teaching oral language. Covers a review of phonetics and phonology including place and manner of articulation of phonemes, stress, intonation, and how articulation alters when sounds are produced within larger units of discourse. Delves into the structure of oral discourse above the sentence, including such features as adjacency pairs, referencing and gapping, and how participants negotiate meaning. Introduces students to techniques used in oral discourse analysis.

Perquisite: TESL 451.

TESL 456 Written Discourse Structures (3)

Fall: All Years

In-depth study of how the writing system of English as well as methods and strategies for teaching reading and writing. Covers the alphabet and its relation to the oral language, the teaching of early literacy, developmental literacy, and advanced writing skills. Delves into the structure of written discourse above the sentence, including such features as logical connectors, focusing structures, transitions, and rhetorical devices.

Perquisite: TESL 451.

Technology

TECH 113 Engineering Graphics/CAD (3)

Spring: On Demand

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. Same as ENG 113.

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. Same as GCOM 216.

Prerequisite: ENG 113 or TECH 113.

TECH 290 Topics in Technology (1-3)

Fall: On Demand **Spring:** On Demand **Summer:** On Demand

Topical study of a particular technology program, subject, or situation not offered in the regular curriculum. May be repeated for credit if offered under different title.

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 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 [W] Process Leadership (3)

Spring: All Years **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.

TECH 390 Topics in Technology (1-3)

Fall: On Years **Spring:** On Years **Summer:** 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 394 Computer Applications for Technologists (4)

Fall: All Years **Spring:** All Years **Summer:** On Demand

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 Technology.

Prerequisite: CSIS 103 or consent of instructor.

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 Internship (1-12)

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 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 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: MATH 234, TECH 380.**TECH 490 Special Problems (1-4)****Fall:** Odd Years **Spring:** Odd Years

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 [6] Theatre Appreciation (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. MnTC Goal 6.

THTR 130 [6] Acting for Everyone (3)

Fall: All Years

Acting for Everyone is a participation course that introduces the student to the fundamental craft of the stage actor. Students will engage in theatre games, solo, duo, and group acting scenes, and will learn basic theatrical vocabulary. Emphasis is placed on creating truthful, vivid interaction on stage, through developing the skills of listening, responding, concentration and engaging the imagination. MnTC Goal 6.

THTR 140 Dance for the Stage I (2)

Fall: All Years

A beginning course in dance technique for dance styles in musical theatre, including dance forms of jazz and ballet.

THTR 141 Ballet I (2)

Fall: Even Years

This course will serve as an introduction to ballet dance technique.

THTR 142 Tap I (2)

Spring: Odd Years

This course will serve as an introduction to tap dance technique.

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: Odd Years **Spring:** Odd Years

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 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 231 Auditioning (3)

Fall: Odd Years **Spring:** Odd Years

Students will prepare for all types of theatrical auditions. The class will cover topics such as: resume preparation, cold reading, headshots, piece selection and the business of theatre.

Prerequisite: THTR 230.

THTR 232 Principles of Make-up for Stage and Film (2)

Fall: Odd Years **Spring:** Odd Years

Techniques and styles of make-up used in stage and film productions. Same as FILM 232.

THTR 233 Theatre Costuming (3)

Fall: Odd Years **Spring:** Odd Years

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.

THTR 240 Dance for the Stage II (2)**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 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 [W] 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 [W] 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 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 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 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 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:** Odd Years **Spring:** Odd Years

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.

Prerequisite: THTR 255, THTR 355.**THTR 360 Dramatic Production I (1-4)****Summer:** All Years

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. This course may be repeated for a max of 12 credits, only 3 credits may be applied to the major.

Prerequisite: THTR 102, THTR 202, THTR 302.**THTR 420 [8] The Theatrical World (3)****Fall:** All Years

This course will explore the theatre from Europe and Asia, with special emphasis on the theatre of Classical Greece, India, China, Japan, and American Musical Theatre. Students will read plays, materials about theatre, see videos of theatre productions, and make group presentations. MnTC Goal 8.

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 230 or THTR 333 or THTR 334.**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.

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 explores 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.

Prerequisite: THTR 355, THTR 356.**THTR 460 Dramatic Production II (1-4)****Summer:** All Years

Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audience. May be repeated by undergraduates.

Prerequisite: THTR 360.**THTR 469 Internship (1-12)****Fall:** On Demand **Spring:** On Demand

A supervised practical experience in theatre. A maximum of 12 internship credits may be applied to the degree.

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 [7] 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. MnTC Goal 7.

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 235 Philosophy of Sex and Love (3)

Fall: Odd Years **Spring:** Odd Years

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 Women in Literature (3)

Fall: Odd Years **Spring:** Odd Years

A study of the various ways women are depicted in imaginative literature and expository prose. Readings vary. Same as ENGL 246.

Prerequisite: ENGL 101.

WS 247 Women's Studies: Perspectives and Intersections (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.

Prerequisite: WS 100.

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 [3L] Biology of Women (3)

Fall: Odd Years **Spring:** Odd Years

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. Lab included. Same as BIOL 300. MnTC Goal 3.

Prerequisite: BIOL 104.

WS 303 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 305 [7/W] 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. Same as ECON 305. MnTC Goal 7.

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 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. MnTC Goal 5. Same as SOC 310.

Prerequisite: SOC 110.

WS 312 [6] Rhetorics of Resistance: Feminist Responses from the Humanities (3)

Spring: All Years

An examination of feminist responses from the humanities including literature, history, visual and performing arts as well as creative work from the traditional world of women. The course incorporates responses from various multicultural perspectives. MnTC Goal 6.

WS 314 Feminist Philosophy (3)**Fall:** Odd Years **Spring:** Odd Years

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 Jagggar. Representative contemporary issues may include women's reproductive rights, prostitution, sexual harassment laws, and marriage and family issues. Same as PHIL 314.

WS 316 Women in Action (3)**Fall:** All Years

Collaboration with WS students from NDSU and Concordia. The conference focuses on local feminist action related to topics of interest to college-age women. Students meet weekly to plan the event and prepare all aspects of the conference including fundraising, publicity, and contacting speakers and panelists. The location of the conference rotates between the Tri-College campuses. The conference is held early in the Spring semester and students are expected to participate in the conference and final meetings in the semester following the course. May be repeated twice for credit.

WS 320 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 324 Feminist Theory (3)****Fall:** All Years **Summer:** On Demand

This course is an examination of feminist theories that analyze women's experiences and women's oppression. Throughout the course we will explore how knowledge, power, gender, and differences are interwoven and how feminist approaches seek to disrupt and reshape systems of inequality on multiple levels. Specific attention will focus on theorizing the intersections of gender-based oppression with racism, classism, and other forms of oppression.

Prerequisite: WS 100.**WS 330 Gender, Justice and the Environment [10] (3)****Fall:** On Demand **Spring:** All Years **Summer:** On Demand

This course focuses on understanding and identifying solutions to local and global environmental issues in the context of feminist critique. The course will draw from feminist literature, core ecological principles, activist strategies, and other critical writings.

WS 333 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 334 [7] Lesbian, Gay, Bisexual, Transgender, and Queer Issues (3)****Spring:** Even Years

Seminar course on the historical and social contexts of personal, cultural, and political aspects of lesbian, gay, bisexual, transgender, and queer (LGBTQ) life. Same as SOC 334. MnTC Goal 7.

WS 344 [7] Women in World Religions (3)**Fall:** Odd Years **Spring:** Odd Years

This course will survey how gender power and control is represented in various cultural belief systems and expressed in religious practices. The class will stress the concepts of utilizing social norms and historiographical theory in order to analyze human behaviors. The class will also explore the concept of "cultural heritage" and will investigate how it affects the student's personal worldview, values and assumptions. In order to accomplish this goal, the students will be introduced to a wide variety of primary and secondary source documents as well as examples of material culture, and will be expected to provide written analysis of these items. Same as HIST 344. MnTC Goal 7.

WS 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". Same as HIST 350.

WS 390 Topics in Women's Studies (1-4)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic changes.

WS 395 Research in Women's Studies (1-3)**Fall:** Odd Years **Spring:** Odd Years

Directed research course in Women's Studies. Topics covered include research techniques, methodologies and academic writing in Women's Studies. May be repeated once for credit.

Prerequisite: WS 100, WS 247.**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 406 [9/W] DNA as Destiny: Genetics and Society (3)**Fall:** All Years **Spring:** All Years **Summer:** All Years

This course examines the various ethical, legal and social implications (ELSI) of genetic research and the applications of current and future applications of new genetic technologies. It is designed to provide students in any major with the necessary background to make informed decisions about these issues in a socially and civically responsible manner. Same as BIOL 406. MnTC Goal 9.

WS 407 [9/11] Inclusive Science: Women, Gender and Science (3)**Fall:** On Demand **Spring:** On Demand

This course will compare and contrast traditional views and feminist critiques of science, define gendered science and examine the potential for restructuring science. Students will practice the critical review of scientific readings and analyze and reflect upon the ethical dimensions of scientific issues related to gender. The course investigates collaboration between Women's Studies scholars and scientists, and culminates with field observations and the critique of science in the academy and the private sector. MnTC Goal 9.

WS 408 [W] Women and Art (4)**Fall:** Odd Years **Spring:** Odd Years

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 [W] Seminar in Women's Studies (3-4)**Fall:** On Demand **Spring:** On Demand

Study of selected problems in Women's Studies through various disciplines including those from the humanities, arts, social sciences and natural sciences. The course employs the objectives of interdisciplinary studies as applied to selected topics. Specific topics will be announced in the class schedule. Students may repeat the course two times when topic varies. Core class for Women's Studies Minor program.

WS 415 [9] Media and Diverse Identities (3)**Fall:** All Years

This course focuses on the analysis of media representations of diverse identities with an emphasis on the interconnections of race, gender and class. Students will use feminist theory and ethics, afrocentric criticism, queer theory and masculinity studies to critically analyze representations of diverse identities in print, television, advertising, film and the internet. Students will develop their own media, in the form of digital storytelling, to speak back to dominant narratives analyzed in the course.

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 [8/11/W] 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. Core class for Women's Studies Minor program. MnTC Goal 8.

WS 469 Internship (1-12)**Fall:** On Demand **Spring:** On Demand

A supervised practical experience in Women's Studies. Students must be Women's Studies majors with at least Junior standing. A maximum of 12 internship credits may be applied to the degree.

Prerequisite: WS 100, WS 247.**WS 470 Undergraduate Teaching Assistant (1)****Fall:** All Years **Spring:** All Years **Summer:** On Demand

Students will serve as a teaching assistant for select Women's Studies courses under the guidance of a faculty mentor. May be repeated up to three times for credit. Permission of Faculty Mentor and Women's Studies Director required.

WS 490 Topics in Women's Studies (1-4)**Fall:** On Demand **Spring:** On Demand

This is an upper division topical course and may be repeated when the topic changes.

WS 495 Topics in Feminist Theory (3)**Fall:** Odd Years **Spring:** Odd Years

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.

WS/BIOL 406 DNA as Destiny: Genetics and Society (3)
 WS/ECON 305 The Economics of Poverty, Discrimination,
 and Inequality (3)
 WS/HIST 344 Women in World Religions (3)
 WS/HIST 350 Women in European History (4)
 WS/PHIL 235 Philosophy of Sex and Love (3)
 WS/PHIL 495 Topics in Feminist Theory (3)
 WS/PE 294 Women and Sport (3)
 WS/SOC 219 Sociology of Sexual Behavior (3)
 WS/SOC 308 Social Gerontology (3)
 WS/SOC 310 Dominant-Subordinate Group Relations (3)
 WS/SOC 320 Sociology of the Family (3)
 WS/SOC 333 Sociology of Gender (3)
 WS/SOC 334 Lesbian, Gay, Bisexual, Transgender, and Queer
 Issues (3)
 WS/SOC 416 Violence in the Family (3)

MINOR IN WOMEN'S AND GENDER STUDIES (21 Credits)

Requirements (12 Credits)

WS 100 Women Today: Contemporary Women's Issues (3)
 WS 247 Women's Studies: Perspectives and Intersections (3)
 WS 314 Feminist Philosophy (3)
 WS 412 Seminar in Women's Studies (3)
OR WS 420 Feminism in Global Perspective (3)

Electives (9 Credits)

Three courses are required. Students may use only two courses from the same discipline area. Other courses may be allowed with prior approval of the program coordinator. If you choose ENGL 248 the topic must relate to Women's and Gender Studies and CJ 400 only when the topic is "Women and Crime."

AMCS 372 Dynamics of Prejudice and Oppression (3)
 CJ 400 Seminar in Criminal Justice (1-4)
 ENGL 248 Introduction to American Ethnic Literature (3)
 HIST 375 Women in United States History (3)
 PSY 310 Psychology of Women (3)
 WS 312 Rhetorics of Resistance: Feminist Responses from the Humanities (3)
 WS 316 Women in Action (3)
 WS 330 Gender, Justice and the Environment (3)
 WS 390 Topics in Women's Studies (1-4)
 WS 395 Research in Women's Studies (1-3)
 WS 397 Individual Study (1-3)
 WS 407 Inclusive Science (3)
 WS 410 Directed Readings in Women's Studies (1-3)
 WS 412 Seminar in Women's Studies (3)
 WS 415 Media and Diverse Identities (3)
 WS 420 Feminism in Global Perspective (3)
 WS 470 Undergraduate Teaching Assistant (1)
 WS/ANTH 303 Cross Cultural Gender (3)
 WS/ART 408 Women and Art (4)
 WS/BIOL 300 Biology of Women (3)
 WS/BIOL 406 DNA as Destiny: Genetics and Society (3)

WS/ECON 305 The Economics of Poverty, Discrimination,
 and Inequality (3)
 WS/ENGL 246 Women in Literature (3)
 WS/HIST 344 Women in World Religions (3)
 WS/HIST 350 Women in European History (4)
 WS/PE 294 Women and Sport (3)
 WS/PHIL 235 Philosophy of Sex and Love (3)
 WS/PHIL 495 Topics in Feminist Theory (3)
 WS/SOC 219 Sociology of Sexual Behavior (3)
 WS/SOC 308 Social Gerontology (3)
 WS/SOC 310 Dominant-Subordinate Group Relations (3)
 WS/SOC 320 Sociology of the Family (3)
 WS/SOC 333 Sociology of Gender (3)
 WS/SOC 334 Lesbian, Gay, Bisexual, Transgender, and Queer
 Issues (3)
 WS/SOC 416 Violence in the Family (3)

WOMEN AND SCIENCE CERTIFICATE

Requirements (13 Credits)

Students must complete any Natural Science general education course with Lab besides WS/BIOL 300 and the following three courses:

WS 247 Women's Studies: Perspectives and Intersections (3)
 WS 300 Biology of Women (3)
 WS 407 Inclusive Science: Women, Gender and Science (3)

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Institutional Effectiveness

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Assistant Vice President for Student Affairs for

Diversity/Inclusion and Affirmative Action

Phone: 477-2721 Comstock Memorial Union 114

ACADEMIC AFFAIRS

Academic Resource Office

Phone: 477-4318 Flora Frick Hall 154

Career Development Center

Phone: 477-4318 Flora Frick Hall 154

College of Arts and Humanities

Phone: 477-2764 Bridges Hall 250A

College of Business and Industry

Phone: 477-4654 Center for Business 100C

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STUDENT AFFAIRS

Bookstore and Campus Post Office

Phone: 477-2111 MacLean Hall 176

Comstock Memorial Union and Student Activities

Phone: 477-2447 Comstock Memorial Union 115B

Hendrix Clinic and Counseling Center

Phone: 477-2211 C Lot Annex Building

Multicultural Student Affairs

Phone: 477-2652 Comstock Memorial Union 114

Russell and Ann Gerdin Wellness Center

Phone: 477-2248 Wellness Center

ENROLLMENT MANAGEMENT

Vice President for Enrollment Management

Phone: 477-2765 Owens Hall 206

Admissions

Phone: 477-2161 Owens Hall 102

Financial Aid and Scholarships

Phone: 477-2251 Owens Hall 107

Housing and Residential Life

Phone: 477-2118 Ballard Hall 120

International Student Affairs

Phone: 477-2956 Comstock Memorial Union

Office of First Year Programs

Phone: 477-2777 Comstock Memorial Union 222

Student Conduct and Resolution

Phone: 477-2174 Owens Hall 206D

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Vice President for Finance and Administration

Phone: 477-2070 Owens Hall 203F

Associate Vice President for Finance and Administration

Phone: 477-2336 Owens Hall 203G

Athletics Director

Phone: 477-2306 Alex Nemzek Hall 106

Chief Information Officer

Phone: 477-2300 Livingston Lord Library 201A

Comptroller/Business Manager

Phone: 477-2062 Owens Hall 106

Physical Plant

Phone: 477-2069 Maintenance Building 100A

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Associate Vice President for Alumni Foundation

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Annual Giving

Phone: 477-2093 Centennial House

Edna Szymanski, 2008. President. B.S., Rensselaer Polytechnic Institute; M.S., University of Scranton; Ph.D., University of Texas.

Anthony Adah, 2009. Assistant Professor of Film Studies. B.A., M.A., University of Ibadan; Ph.D., University of Toronto.

Richard K. Adler, 2002. Professor Speech/Language/Hearing Sciences. B.A., Long Island University; M.A., New York University; M.A., University of Akron; Ph.D., Ohio University.

M. Wayne Alexander, 1977. Professor of Marketing and Management. B.S., M.B.A., Fresno State College; Ph.D., University of Illinois at Urbana-Champaign; Ph.D., University of North Dakota.

Sayel A. Ali, 1988. Professor of Mathematics. B.Sc., University of Jordan; M.Sc., University of Dundee; Ph.D., Ohio State University.

Bjorn P. Anderson, 2008. Assistant Professor of Art & Design. B.A., University of Oregon; M.A., University of British Columbia; M.A., Ph.D., University of Michigan.

Norma J. Andersen, 1999. Professor of Construction Management. B.S., University of Wyoming; M.S., Ph.D., Colorado State University.

James Anderson, 1988. Assistant Director of Admissions. B.S., M.S., Minnesota State University Moorhead.

Jason W. Anderson, 2005. Chair and Associate Professor of Communication Studies. B.A., Augustana College; M.S., Illinois State University; Ph.D., University of Wisconsin-Madison.

Layne Anderson, 1996. Associate Director of Student Union and Activities. B.S., M.S., Minnesota State University Moorhead.

Yolanda L. Arauza, 2007. Assistant Professor of American Multicultural Studies. B.A., Minnesota State University Moorhead; M.A., North Dakota State University.

Anna S. Arnar, 1996. Associate Professor of Art & Design. B.A., St. Olaf College; M.A., Ph.D., University of Chicago.

Ashley M. Atteberry, 2008. Director of Student Conduct and Resolution. B.A., M.A., University of South Dakota.

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