The Curricula Section lists the academic departments of Minnesota State University Moorhead as of June 2005, 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.

See Business

See Mathematics

See Mass Communications

Cooperative Degree Program
Biosciences Department
King Hall 103, (218) 477-2572
Chair: Donna Bruns Stockrahm

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

American Multicultural Studies Department
MacLean 326, (218) 477-2196
Chair: Phyllis May-Machunda
Faculty: Jane Ball, Dieter Berninger, Helen Klassen

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

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

The American Multicultural Studies Department offers minors in the following areas:
- African American Studies
- American Indian Studies
- Chicano/Latino Studies
- American Multicultural Studies

STUDENT LEARNING OUTCOMES

Students taking American Multicultural Studies courses will:
- Demonstrate an understanding of the status, concerns, achievements, representations and experiences of African Americans, Native Americans, African American Indian, Chicano/Latinos and Asian Americans.
- Demonstrate familiarity with key concepts from core texts and from multicultural American
experiences, values, beliefs and behaviors.

- Understand and analyze literary and cultural texts within their historic and cultural contexts.
- Identify and discuss complex issues in American multicultural perspectives.
- Demonstrate facility in interdisciplinary research skills and methodology.
- Deliver effective oral, written and visual presentations of research projects.
- Critically evaluate research projects and reading materials.

**UPPER LEVEL WRITING REQUIREMENT**

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

**MINOR IN AFRICAN AMERICAN HUMANITIES (22 Credits)**

**Requirements (10 Credits)**

- AMCS 210 African American Humanities: Roots (4)
- AMCS 211 Contemporary African Americans (3)
- AMCS 300 Theories and Methods in American Multicultural Studies (3)

**Restricted Electives (12 Credits)**

Students will choose twelve credits in electives from the following courses.

- AMCS 312 Origins of Multicultural America (4)
  
  **OR** AMCS 313 Modern Multicultural America (4)
  
  AMCS 301 African American Music (3)
  
  AMCS 311 African American Art (2)
  
  AMCS 315 African American Images in Film (3)
  
  AMCS 325 African American Theatre (3)
  
  **OR** THTR 325 African American Theatre (3)
  
  AMCS 372 Dynamics of Prejudice and Oppression (4)
  
  **OR** PHIL 372 Dynamics of Prejudice and Oppression (4)
  
  AMCS 390 Topics in American Multicultural Studies (1-3)
  
  AMCS 461 Readings: American Multicultural Studies (1-3)
  
  AMCS 469 Internship (3-12)
  
  AMCS 498 Capstone Seminar in American Multicultural Studies (3)
  
  ANTH 220 Peoples and Cultures of Africa (3)
  
  ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
  
  ENGL 356 African American Literature (3)
  
  HIST 377 African-Americans in U.S. History (3)
  
  MUS 215 History of Jazz (3)
  
  **OR** MUS 343 Jazz History (2)

**MINOR IN AMERICAN INDIAN STUDIES (18 Credits)**

**Requirements (12 Credits)**

- AMCS 102 Contemporary American Indians (3)
  
  AMCS 300 Theories and Methods in American Multicultural Studies (3)
  
  AMCS 320 American Indian Belief Systems (3)
  
  **OR** ANTH 320 American Indian Belief Systems (3)

**Restricted Electives (6 Credits)**

Students will choose six elective credits from the following courses. For AMCS 390, 461, or 469 to count as a restricted elective in this minor, the content must focus on American Indian topics. With prior approval, the six elective credits may possibly include ENGL 248, HIST 333, and/or HIST 311. All courses presented to satisfy the elective requirements of the minor are subject to the approval of the department chair.

- ANTH 210 Midwest/Plains Prehistory (3)
  
  ANTH 315 North American Archaeology (3)
  
  AMCS 225 Ojibwe Culture (3)
  
  AMCS 270 American Indian Education (3)
  
  AMCS 312 Origins of Multicultural America (4)
  
  AMCS 319 Plains Indian Cultures (3)
  
  **OR** ANTH 319 Plains Indian Cultures (3)
  
  AMCS 332 Indians of the Southwest (3)
  
  AMCS 372 Dynamics of Prejudice and Oppression (4)
  
  AMCS 390 Topics in American Multicultural Studies (1-3)
  
  AMCS 461 Readings: American Multicultural
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 (4)
- AMCS 390 Topics in American Multicultural Studies (1-3)
- AMCS 461 Readings: American Multicultural Studies (1-3)
- AMCS 469 Internship (3-12)
- AMCS 498 Capstone Seminar in American Multicultural Studies (3)
- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
- HIST 309 Topics in Latin American History (2-3)
- HIST 333 History of Latin America I (3)
- HIST 334 History of Latin America II (4)
- HIST 335 History of the Aztecs and the Incas (3)
- HIST 336 History of Mexico (3)
- SOC 310 Dominant-Subordinate Group Relations (3)
- SOC 350 Methods and Statistics for Social Research (4)
- SPAN 201 Intermediate Spanish I (4)
- SPAN 202 Intermediate Spanish II (4)
- SPAN 290 Topics in Spanish Language Literature, and Culture (1-4)

MINOR IN AMERICAN MULTICULTURAL STUDIES (20-22 Credits)

Requirements (18-19 Credits)
Students must take AMCS 300 and choose five from the other eight courses listed below. Students must take one course about each of the four racial/ethnic groups.
- AMCS 102 Contemporary American Indians (3)
- AMCS 103 Contemporary Chicanos (3)
- AMCS 203 Chicano Culture (3)
- AMCS 210 African American Humanities: Roots (4)
- AMCS 211 Contemporary African Americans (3)
- AMCS 300 Theories and Methods in American Multicultural Studies (3)
- AMCS 303 Latinos in the United States (3)
- AMCS 313 Modern Multicultural America (4)
- HIST 220 Asian-American Culture (2)

Electives (3 Credits)
Students will choose three credits of elective courses with significant multicultural content above the 200 level which may be taken in the following departments and programs: American Multicultural Studies, American Studies, Anthropology, Economics, English, History, Nursing, Social Work, Sociology or Women’s Studies. In some cases, courses from other departments or programs may be approved as electives. All courses taken to satisfy the elective requirement are subject to the approval of the department chair.

American Studies

History Department

Chair: Steven Hoffbeck
Program Coordinator: Maureen Reed

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

**STUDENT LEARNING OUTCOMES**

Students should:
- understand and analyze literary texts within their historical context;
- identify and discuss complex issues in American society from an interdisciplinary perspective;
- demonstrate research skills and facility in interdisciplinary writing methodology;
- deliver effective oral presentations of research projects;
- critically evaluate research projects of other majors;
- demonstrate familiarity with core texts and concepts about American values, beliefs, and patterns of behavior;
- write interpretive and critical interdisciplinary analysis of selected issues in American culture.

**UPPER LEVEL WRITING REQUIREMENT**

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

**B.A. DEGREE IN AMERICAN STUDIES**

(46 Credits)

**Requirements (10 Credits)**

AMST 217 Introduction to the American Culture (3)
AMST 317 The Midwest (3)
AMST 417 Seminar: Violence in American Culture (4)
OR AMST 419 Success in American Society (4)

**Restricted Electives (18 Credits)**

Students must take eighteen credits selected from the following areas: Social Sciences, Fine Arts, Mass Communications, American Literature or American History. Students will need to plan their elective choices with their faculty advisor.

**Related Requirements (18 Credits)**

Students will take eighteen elective credits chosen from a wide selection of courses in various departments to satisfy professional goals and individual interests. Those who choose American Studies as a second major may fulfill some requirements in related fields with courses which also fulfill requirements in liberal studies and their first major. All electives are subject to advisor approval.

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**Anthropology and Earth Science Department**

Lommen 102, (218) 477-4217

Chair: Michael Michlovic

Faculty: Russell Colson, Rinita Dalan, Erik Gooding, George Holley, Karl Leonard, Bruce Roberts, Paul Sando

**Programs in Anthropology**

The Anthropology Major provides students with an opportunity to understand people in different cultures, places, and times. Students are introduced to the vast range of human cultures, and to the relationship between human beings, their culture, and their environment. At Minnesota State University Moorhead, the major includes an introduction to the four major sub-fields of anthropology - cultural anthropology, archaeology, biological anthropology, and linguistics, along with a menu of specialized courses in cultural anthropology and archaeology. The major includes two emphases, or tracks. One is in archaeology, for students wishing to focus on the study of ancient cultures; and the other is in cultural anthropology, for those students interested in the study of contemporary cultures from a cross-cultural and global perspective. There are specialized learning experiences in the form of field and laboratory courses in archaeology, specialized training in geophysical prospection, and a cultural tour of East Africa. The cultural tour and the archaeological field experiences are offered in summer sessions.

**STUDENT LEARNING OUTCOMES**

Students will exhibit an:
- understanding of the content of anthropology;
- ability to apply the concepts of anthropology to issues relevant to understanding human beings;
- an ability to think critically;
- understanding of social research, including the ability to apply research findings to human issues;
- ability to organize ideas, evidence, information and present coherent arguments;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning anthropological issues.

**UPPER LEVEL WRITING REQUIREMENT**

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.
B.A. DEGREE IN ANTHROPOLOGY (40 Credits)
Core Requirements (12 Credits)
This core is required of all students who major in one of the Anthropology emphases: Cultural Anthropology or Archaeology.
ANTH 110 Introduction to Cultural Anthropology (3)
ANTH 115 Introduction to Archaeology (3)
ANTH 120 Introduction to Physical Anthropology (3)
ANTH 445 Seminar in Anthropology (3)

EMPHASIS IN ARCHAEOLOGY (40 Credits)
Core Requirements (12 Credits)
Students must complete the courses listed under “Core Requirements” under the B.A. Degree in Anthropology.
Requirements (18 Credits)
In addition to the listed courses, students in the Archaeology emphasis must take one archaeology area course, one applied archaeology course, and one upper level cultural anthropology course.
ANTH 216 The Paleolithic Age (3)
ANTH 217 The Rise of Civilization (3)
ANTH 300 Archaeology (3)

Electives (10 Credits)
If students in this emphasis elect to take ANTH 450 for six credits, they will need to take only seven elective credits in Anthropology courses.

EMPHASIS IN CULTURAL ANTHROPOLOGY (40 Credits)
Core Requirements (12 Credits)
All students must complete the courses listed as “Core Requirements” under the B.A. Degree in Anthropology.
Requirements (18 Credits)
In addition to the listed courses, students in the Cultural Anthropology emphasis must take one cultural anthropology area course, one upper level topical course, and one upper level archaeology course.
ANTH 265 Language and Culture (3)
ANTH 348 Ideas of Culture (3)
ANTH 380 Traditional Cultures (3)

Electives (10 Credits)
Students need to take ten elective credits in Anthropology courses.

MINOR IN ANTHROPOLOGY (28 Credits)
Requirements (9 Credits)
ANTH 110 Introduction to Cultural Anthropology (3)
ANTH 115 Introduction to Archaeology (3)
ANTH 120 Introduction to Physical Anthropology (3)

Electives (19 Credits)
Students, in consultation with a faculty advisor, must take nineteen credits of Anthropology electives. At least eight credits must be Anthropology courses at the 300 level or above.

Programs in the Geosciences
The Geosciences Major provides students with an opportunity to understand the Earth, including processes that have shaped its past and those that will shape its future, and the relationships among place, landscape, climate, culture, economy, and people. Students can choose one of three emphases: Geology, Geoarchaeology, or Geographical Science.

Geology is for those students interested in understanding how the Earth works presently and what has happened in Earth’s ancient past. Students who choose this track will focus on our environment and its processes, stories of Earth’s past, and the formation and extraction of natural resources of the Earth.

Geoarchaeology is for those students interested in understanding what geological evidence and reasoning reveal about past human cultures and activities on Earth. Students who choose this track will focus on the geological, chemical, biological, and physical methods for interpreting artifacts, sediments, and environments important in understanding our human past.

Geographical Science is for those students interested in understanding the relationships among place, people, and environment. Students who choose this track will focus on the distribution of climate, cultures, and landscapes on Earth, the reason for those distributions, and the way that these interact and effect humans and our economies.

The Earth Science Teaching major is for those students interested in teaching earth science in grades 9-12, and meets the requirements for licensure in Science (grades 5-8). Our Earth Science teaching program is particularly strong in providing in-depth coverage of the wide range of Earth Science subjects needed for Minnesota licensure, including Physical Geology, Historical Geology, Meteorology, Astronomy and Planetary Science, Oceanography, and Interaction of People with the Land.

A minor in Geosciences is also offered. Students should see an advisor concerning which geoscience courses fit their particular needs or interests.
STUDENT LEARNING OUTCOMES

Students will exhibit an:

- understanding of the basic concepts and methods of Geosciences
- ability to apply concepts and principles of relationships of people to the Earth
- competency in laboratory and field skills
- ability to conduct a scientific investigation or including either science or social science research
- ability to reason scientifically and to organize ideas, evidence, information and arguments
- ability to use library and/or research data to support points of view
- ability to communicate orally and/or in writing concerning Geoscience problems or issues.

UPPER LEVEL WRITING REQUIREMENT

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

B.S. DEGREE IN GEOSCIENCES
(43-46 Credits)

Core Requirements (43-63 Credits)

Students in this major must complete coursework for one of the three emphases: Geology, Geographical Sciences, or Geoarchaeology.

EMPHASIS IN GEOLOGY (60-63 Credits)

Requirements (28 Credits)

- GEOS 301 Archaeological Prospection (3)
- GEOS 302 Introduction to Mineralogy and Petrology (3)
- GEOS 315 Sedimentology and Stratigraphy (3)
- GEOS 340 Economic and Environmental Geology (3)
- GEOS 350 Geoarchaeology (3)
- GEOS 405 Geographic Information Systems (3)
- GEOS 415 Reading Geochemical Fingerprints (3)
- GEOS 416 Paleontology (3)
- GEOS 450 Field Geology (3)
- GEOS 480 Senior Seminar (1)

Restricted Electives (12-14 Credits)

Six to eight credits must be taken from GEOS 102, GEOS 115, GEOS 116 and GEOS 117. At least six additional credits must be taken from the other listed courses in this area.

- GEOS 102 Geology in the National Parks (3)
- GEOS 115 Physical Geology (4)
- GEOS 116 Historical Geology (3)
- GEOS 117 Water, Land, and People (4)
- GEOS 305 Oceanography (3)
- GEOS 320 Economic Geography (3)
- GEOS 330 Elementary Meteorology (3)
- GEOS 360 Planetary Science (3)
- GEOS 390 Topics in Geosciences (1-3)
- GEOS 397 Research in Geosciences (1-3)
- GEOS 417 Taphonomy and Paleocology (3)
- GEOS 460 Igneous and Metamorphic Petrology (3)

Related Requirements (20 Credits)

- CHEM 200 General Chemistry I (4)
- MATH 234 Introduction to Probability and Statistics (4)
- MATH 261 Calculus I (4)
- PHYS 160 College Physics I (4)
  OR PHYS 200 General Physics I (4)
- BIOL 115 Organismal Biology (4)
  OR BIOL 305 General Botany (4)

Recommended (0 Credits)

These courses are not required, but are recommended. Students should consult with their advisor in the department concerning which courses are most appropriate for their interests and plans. It is further recommended that students obtain 3-4 credits of field experience in addition to GEOS 450.

- BIOL 345 Principles of Ecology (4)
- CHEM 210 General Chemistry II (4)
MATH 262 Calculus II (4)
PHYS 201 General Physics II (4)

EMPHASIS IN GEOGRAPHICAL SCIENCES (43-45 Credits)

Requirements (28 Credits)
ANTH 307 Ecological Anthropology (3)
GEOS 225 Conservation (3)
GEOS 305 Oceanography (3)
GEOS 310 United States and Canada (3)
GEOS 320 Economic Geography (3)
GEOS 325 Reading Landscape: Ways of Seeing (3)
GEOS 330 Elementary Meteorology (3)
GEOS 405 Geographic Information Systems (3)
GEOS 410 Eastern Europe and Russia (3)
GEOS 480 Senior Seminar (1)

Restricted Electives (15-17 Credits)
Six to eight credits must be taken from GEOS 110, GEOS 111, GEOS 115 and GEOS 117. At least nine additional credits must be taken from the other listed courses in this area.
ANTH 202 American Indian Culture (3)
ANTH 220 Peoples and Cultures of Africa (3)
ANTH 319 Plains Indian Cultures (3)
GEOS 110 Introductory Physical Geography (3)
GEOS 111 Cultures and Regions (3)
GEOS 115 Physical Geology (4)
GEOS 117 Water, Land, and People (4)
GEOS 235 Geography of Minnesota and North Dakota (3)
GEOS 315 Sedimentology and Stratigraphy (3)
GEOS 340 Economic and Environmental Geology (3)
GEOS 350 Geoarchaeology (3)
GEOS 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
(59-63 Credits)

Requirements (32-34 Credits)
ANTH 115 Introduction to Archaeology (3)
ANTH 300 Archaeology (3)
GEOS 302 Introduction to Mineralogy and Petrology (3)
GEOS 315 Sedimentology and Stratigraphy (3)
GEOS 340 Economic and Environmental Geology (3)
GEOS 350 Geoarchaeology (3)
GEOS 405 Geographic Information Systems (3)
GEOS 415 Reading Geochemical Fingerprints (3)
GEOS 416 Paleontology (3)
GEOS 480 Senior Seminar (1)
GEOS 455 Field Methods in Geoarchaeology (4)
OR ANTH 450 Field Work in Anthropology (6)

Restricted Electives (12-14 Credits)
Six to eight credits must be taken from GEOS 102, GEOS 115, GEOS 116 and GEOS 117. At least six additional credits must be taken from the other listed courses in this area.
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 102 Geology in the National Parks (3)
GEOS 115 Physical Geology (4)
GEOS 116 Historical Geology (3)
GEOS 117 Water, Land, and People (4)
GEOS 225 Conservation (3)
GEOS 301 Archaeological Prospection (3)
GEOS 325 Reading Landscape: Ways of Seeing (3)
GEOS 390 Topics in Geosciences (1-3)
GEOS 397 Research in Geosciences (1-3)
GEOS 417 Taphonomy and Paleocology (3)
GEOS 450 Field Geology (3)
GEOS 460 Igneous and Metamorphic Petrology (3)

**Related Requirements (15 Credits)**

Students must take 15 credits from those listed.

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 305 General Botany (4)
BIOL 310 Comparative Vertebrate Anatomy (3)
BIOL 345 Principles of Ecology (4)
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
MATH 234 Introduction to Probability and Statistics (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
PHYS 160 College Physics I (4)
OR PHYS 200 General Physics I (4)
PHYS 161 College Physics II (4)
OR PHYS 201 General Physics II (4)

**Recommended (0 Credits)**

Students should consult with the advisor in the department to determine which elective courses are most appropriate for their interests and plans.

**B.S. DEGREE IN EARTH SCIENCE-TEACHING (100 Credits)**

**Requirements (29 Credits)**

Students must also fulfill all teacher licensure requirements which will add thirty-three credits to the major total. Completion of this major meets the requirements for Minnesota licensure in Science (Grades 5-8) and Earth Science (Grades 9-12).

GEOS 115 Physical Geology (4)
GEOS 116 Historical Geology (3)
GEOS 302 Introduction to Mineralogy and 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 (6 Credits)**

ANTH 120 Introduction to Physical Anthropology (3)
ANTH 216 The Paleolithic Age (3)
AST 104 Stellar Astronomy (3)
GEOS 117 Water, Land, and People (4)
GEOS 301 Archaeological Prospection (3)
GEOS 320 Economic Geography (3)
GEOS 325 Reading Landscape: Ways of Seeing (3)
GEOS 350 Geoarchaeology (3)
GEOS 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 Paleocology (3)
GEOS 450 Field Geology (3)
GEOS 460 Igneous and Metamorphic Petrology (3)
**Related Requirements (32 Credits)**

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 305 General Botany (4)
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
MATH 261 Calculus I (4)
PHYS 160 College Physics I (4)
PHYS 161 College Physics II (4)

**MINOR IN GEOSCIENCES (18 Credits)**

**Requirements (18 Credits)**

A minimum of 18 credits must be taken from among Geosciences courses. At least 6 credits must be taken from Geosciences courses at the 100 level, and 9 credits must be at the 300 level or above. Students interested in an emphasis in geology, geourchaeology, or geographical science should consult with a department faculty member.

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**Cooperative Degree Program**

**Technology Department**

Hagen 103, (218) 477-2104

Chair: Ronald Williams

The pre-architecture program at Minnesota State University Moorhead is a cooperative program with the Department of Architecture and Landscape Architecture at North Dakota State University. Students enroll in their fundamental courses - English, mathematics, art, and the social sciences - at MSUM. Through the Tri-College University, they take their Architecture classes at NDSU while they are enrolled at MSUM. At the end of the second year, the students transfer to NDSU to complete the architecture program.

Some students elect to remain at MSUM for a third year, completing their Liberal Studies requirements and taking their third-year Architecture courses at NDSU. This can be especially advantageous for students participating in Dragon athletics and for students who qualify for Minnesota state grants. These students are encouraged to work very closely with their academic advisor to be certain that all residency requirements at NDSU are satisfied.

The Architecture program at NDSU is a limited-enrollment program. Under the cooperative agreement, MSUM students are equally eligible for available seats in the program, based on overall GPA at the end of the first year. Architecture at NDSU is a five-year program, with sequential courses required every semester. Students must enroll in courses at NDSU each semester in order to complete the program on time.

**CURRICULUM IN PRE-ARCHITECTURE (62 Credits)**

**Requirements (33 Credits)**

ANTH 110 Introduction to Cultural Anthropology (3)
ART 101 Basic Drawing I (4)
ENG 113 Engineering Graphics/CAD (3)
ENGL 101 Composition and Literature I (4)
ENGL 102 Composition and Literature II (4)
MATH 143 Trigonometry (3)
PSY 113 General Psychology (3)
SOC 110 Introduction to Sociology (3)
TECH 216 3D Modeling (3)
TECH 394 Computer Applications for Engineers and Technologists (3)

**Restricted Electives (24 Credits)**

Students must take the following courses from North Dakota State University via the Tri-College University program: ARCH 132, 171, 172, 271, 272, 321, 322, and 326. Consult the Pre-Architecture advisor or the NDSU catalog for course descriptions.

**Electives (5 Credits)**

Students will choose five credits of electives in consultation with the Pre-Architecture advisor.

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**Department of Art and Design**

Roland Dille Center for the Arts 161, (218) 477-2151 or 477-2152

Chair: Donald Clark
**Faculty:** Anna Arnar, Zhimin Guan, Lila Hauge-Stoffel, Maryann Hosseinnia, Lana Leishman, Jeanne Nugent, Carl Oltvedt, Jim Park, Jennifer Roberson, Allen Sheets, Sherry Short, Wil Shynkaruk, Chris Walla, Kelli Sinner

**DEPARTMENT GOALS AND PHILOSOPHY**

Most human perception is based on stereotyped conceptions of the world around us. The study of visual art breaks down those stereotypes providing a truer understanding of the physical world and its workings. This understanding then forms the basis for the effective communication of personal ideas and concepts through visual and tactile media.

The program in Art and Design teaches students the basic principles of art, instructs students in the use of materials, encourages the investigation of the creative process, and provides a framework for understanding the field of art in the historic and contemporary context. This knowledge forms the basic visual and conceptual vocabulary that is used to explore one’s personal expression. The department also emphasizes the benefits of a balanced Liberal Arts education. Art majors are prepared to perform competently whether they go on to professional practice, teaching or post-graduate study.

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

**DEGREES OFFERED BY THE ART AND DESIGN DEPARTMENT**

- Bachelor of Science, with a major in Art Education
- Bachelor of Arts, with a major in Art - Emphasis in Art History
- Bachelor of Arts, with a major in Art - Emphasis in one of the studio areas listed below
- Bachelor of Fine Arts - Emphasis in one of the studio areas listed below

**THE DEPARTMENT OF ART AND DESIGN OFFERS THE FOLLOWING MINORS:**

- Minor in Studio Art
- Minor in Art History

**EMPHASIS AREAS: STUDIO ART AND ART EDUCATION**

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

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

**EMPHASIS AREA DESCRIPTIONS**

**Art History**

The Bachelor of Arts degree in Art with an emphasis in Art History is offered for students whose principal interest is in museum work, teaching in higher education or other fields related to visual arts. Course requirements are designed to familiarize students with the major fields in Art History. Requirements include the Survey of Art and eight upper-level Art History courses. Additional classes in studio art, foreign languages, and a senior research project with a public presentation are required for graduation.

**Ceramics**

Students learn a wide range of technical skills within the area of studio ceramics. Students are acquainted with the technology of ceramic materials and firing processes while developing sound craftsmanship as a means to personal expression.

**Drawing**

Students enrolled in Drawing develop a personal approach selecting from a variety of drawing materials and concepts. Drawing is emphasized as an end in itself, beyond the more traditional idea that drawing is mainly a preparatory process for the development of visual ideas for other media.

**Graphic Design**

Traditional and computer processes are utilized for in-depth studio investigations into various conceptual and technical applications towards effective visual communication. Investigations deal with one or more of the following: symbols, typography, information design, systems, 3D, visual concepts, and multimedia. Projects may include logos, brochures, CD covers, posters, magazine layouts, packaging, annual reports, and many more issues dealing with visual communications and society. The American Institute of Graphic Artists (AIGA) and The National Association of Schools of Art and Design (NASAD) do not recognize the Bachelor of Arts (BA) degree in art or design as adequate preparation for entry as a graphic design professional. The Bachelor of Fine Arts (BFA) is considered the professional and specialized degree program for entry into practice. At the BFA level an internship is required.

**Painting**

After acquiring a thorough foundation in materials and techniques, students are encouraged to develop personal approaches to form and content, style and expression. Individual and group critiques, as well as slide lectures and demonstrations, guide this process. Internships are encouraged.

**Photography**

The emphasis in Photography includes both traditional and contemporary approaches to Photography, encompassing developing, advanced composition, lighting techniques, retouching and negative manipulation, toning, hand coloring and slide processing.
Portraiture, night photography, landscape topography and use of large camera format are taught. Students are encouraged to develop individual styles based on self-awareness. Internships are encouraged.

Printmaking
The student may choose one or a combination of the following printmaking media: relief printing, screenprinting and mono printing, as well as nontoxic intaglio and lithography. Internships are encouraged.

Sculpture
Students are exposed to a broad range of materials, processes, techniques, and concepts as they pertain to both traditional and nontraditional approaches to making sculpture. Topics may include, but are not limited to, wood fabrication, cold and hot steel fabrication, casting methods including bronze casting and mold making, approaches to the figure, site-specific works, self-motivated and self-guided material, technical, and content investigations incorporating unique personal imagery.

Illustration Note:
Students who are interested in pursuing illustrative work are encouraged to do so under the specific area of emphasis that is appropriate to their interest. Faculty members support and encourage students in their pursuit of quality illustrative work.

BACHELOR OF FINE ARTS
Students must apply for acceptance into the BFA program by presenting a body of work for review by a committee of three faculty members, including the student’s advisor in the area of emphasis. Students entering the BFA program must have an overall GPA of 2.75, and a GPA of 3.0 in Art and Design, with their BA requirements satisfied. The BFA Degree requires a minimum of 133 credits for graduation.

ADDITIONAL DEGREE REQUIREMENTS
(BA studio emphasis, BS, and BFA)

Portfolio Reviews
Students seeking the degree in Studio Art or Art Education are required to complete two portfolio reviews; one in the spring semester of their freshman year, and the second in the fall semester of their junior year. Record of their participation in portfolio reviews is kept on file in the Department of Art and Design Office. Completion of these two reviews is required for advancement to the next level of study. Transfer students must meet with their Art and Design advisor during their initial semester in the department to discuss scheduling a review and tailoring the review process to reflect their past experiences (tentative, must still have approval of APAC).

Exhibition/Public Presentation
All students intending to graduate with a BA, BS, or BFA in studio art must successfully prepare a selection of works for exhibition in the Roland Dille Center for the Arts Gallery, and must take part in a group exhibition, as arranged by the Gallery Director. Application for exhibition must be made one semester prior to exhibition (March 15 for fall exhibition; October 15 for spring exhibition). A form, recording the successful completion of a student’s exhibition efforts, is forwarded to the Records Office in preparation for graduation.

Graphic Design majors seeking the BFA degree must prepare a public presentation of their BFA exhibition. The presentation must be scheduled in consultation with the Gallery Director and the Graphic Design advisor.

Internship
Students seeking the BFA emphasis in Graphic Design will complete a required internship after their senior project for which they receive credit towards graduation. Students seeking a BA/BFA in any other area of emphasis may seek an internship. Internship requests should be made to the major advisor and must be approved for credit in advance.

TRANSFER CREDIT POLICY
The student’s assigned advisor can approve acceptance of transfer credits of Art courses that are not a prerequisite for upper-level student at MSUM.

Transfer students who seek approval for prior university level courses in art as prerequisite credit in an area in which they wish to continue study must have those credits approved by her/his advisor and the instructor in the area of study. Signatures from those professors involved must be included on the Department of Art and Design Transfer Student Academic Review Form.

Students must provide both samples of work and syllabi for courses sought as accepted prerequisite credit.

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

SCHOLARSHIPS
In addition to standard MSUM academic scholarships, the Department of Art and Design grants Freshman and Transfer Student Talent Scholarships and Upper Level Scholarships on a competitive basis. Contact the department office for further information.

STUDENT LEARNING OUTCOMES
Students will:
• develop aesthetic sensibilities through visual art experiences, including an understanding of the elements of art and the principles of design;
• further develop their personal creativity and originality through experiences in art;
• develop a concept of self, through visual art experiences;
• practice and develop creative and critical thinking skills, and problem-solving skills through visual art;
• develop skills in communication and presentation;
• view, analyze, and understand artistic styles, design and expressions in multicultural, gender-fair, and historical contexts;
• analyze and understand the role of artistic communication in effecting a social consciousness;
• develop effective critical response skills through visual art experiences which involve viewing, interpreting, evaluating, discussing, and writing;
• increase understanding and awareness of career choices in the arts, as well as the many non-art professions which depend on a solid foundation in art.

UPPER LEVEL WRITING REQUIREMENT
All university students must provide evidence of competency in writing skills for graduation. In the Department of Art and Design, the upper level writing requirement is fulfilled through successful participation in, and completion of, the writing components of The History of Art I and II (Art 233 & 234), 300- and 400- level Art History classes, Contemporary Art, Design and Theory (Art 450), and for BFA students, the BFA Seminar (Art 480). In addition, students may be required to complete writing requirements in individual studio courses.

B.A. DEGREE IN ART (64-70 Credits)
Core Requirements (12 Credits)
The three art courses listed are required of all the emphases in the B.A. Degree in Art (Art History, Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, and Sculpture).
ART 233 History of Art I: Prehistory through the Middle Ages (4)
ART 234 History of Art II: Renaissance through Modern (4)
ART 450 Contemporary Art, Design, and Theory (4)

EMPHASIS IN ART HISTORY (70 Credits)
Core Requirements (12 Credits)
Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

Requirements (6 Credits)
Students must earn six credits in Art 497. This course is titled Senior Thesis, and as a graduation requirement, students are required to present their Senior Thesis publicly.
ART 497 Topics in Art I (1-6)

Restricted Electives (36 Credits)
Students must earn twenty-eight credits in Art History courses at the 300 level or above. Students must earn eight credits in studio chosen from ART 101, ART 102, ART 125, and ART 126.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 338 Non-Western Art (4)
ART 408 Women and Art (4)
ART 410 Ancient Art (4)
ART 411 Medieval Art (4)
ART 420 Renaissance Art (4)
ART 421 Baroque Art (4)
ART 430 Nineteenth Century Art (4)
ART 431 Twentieth Century Art (4)
ART 433 Modern Architecture (3)
ART 434 American Art (4)

Related Requirements (16 Credits)
Students must take at least one year of German language (eight credits), and at least one year of a second language (eight credits), or demonstrate equivalent competency. Ancient, medieval or modern languages may be used to fulfill the second language requirement.

Recommended (0 Credits)
Courses in history, religion, philosophy, literature, anthropology, archaeology, humanities, multicultural studies, American studies, and Women’s Studies may be beneficial to students in this emphasis.
ART 320 Philosophy of the Arts (3)
ENGL 234 Mythology (3)

EMPHASIS IN CERAMICS (64 Credits)
Core Requirements (12 Credits)
Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

Requirements (40 Credits)
Students may take ART 303A, 304A and 305A in any order. Students take a combination of two 404A 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 Survey of Basic Principles of Chemistry (3)
GEOS 115 Physical Geology (4)

EMPHASIS IN DRAWING (64 Credits)

Core Requirements (12 Credits)
Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

Requirements (40 Credits)
Students take a combination of two 304H and/or 305H level studio courses for a total of eight credits. Students take a combination of two 404H and/or 405H level studio courses for a total of eight credits.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 203H Introduction to Figure Drawing (4)
ART 203K Introduction to Fiber/Textile Design (4)
ART 304H Drawing Studio (4)
ART 305H Drawing Studio (4)
ART 404H Drawing Studio (4)
ART 405H Drawing Studio (4)

Restricted Electives (12 Credits)
A minimum of eight introductory credits encompassing both two-and three-dimensional media is required. Students must choose from ART 203A-203L for these credits. Students must also take one art history course at the 300 level or above.

Recommended (0 Credits)
These courses are not required, but may be beneficial to students in this emphasis.
ART 203C Introduction to Painting (4)
ART 203D Introduction to Printmaking (4)

EMPHASIS IN GRAPHIC DESIGN (64 Credits)

Core Requirements (12 Credits)
Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

Requirements (40 Credits)
Students take 304B and 305B level studio courses for a total of eight credits. Students take 404B and 405B level studio courses for a total of eight credits.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 203B Introduction to Graphic Design (4)
ART 303B Graphic Design Studio (4)
ART 304B Graphic Design Studio (4)
ART 305B Graphic Design Studio (4)
ART 404B Graphic Design Studio, Contracted Work (4)
ART 405B Graphic Design Studio, Contracted Work (4)

**Restricted Electives (12 Credits)**
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

**Recommended (0 Credits)**
These courses are not required, but may be beneficial to students in this emphasis.
ART 203L Introduction to Illustration (4)
CMST 100 Speech Communication (3)
GCOM 255 Beginning Computer Graphics (3)
GCOM 266 Introduction to Multimedia (3)
GCOM 316 Three Dimensional Animation (3)
GCOM 355 Intermediate Computer Graphics (3)
GCOM 366 Web Authoring with Dreamweaver (3)

**EMPHASIS IN PAINTING (64 Credits)**

**Core Requirements (12 Credits)**
Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

**Requirements (40 Credits)**
Students take a combination of two 304C and/or 305C level studio courses for a total of eight credits. Students take a combination of two 404C and/or 405C level studio courses for a total of eight credits.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 203C Introduction to Painting (4)
ART 303C Painting Studio (4)
ART 304C Painting Studio (4)
ART 305C Painting Studio (4)
ART 404C Painting Studio (4)
ART 405C Painting Studio (4)

**Restricted Electives (12 Credits)**
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

**Recommended (0 Credits)**
These courses are not required, but may be beneficial to students in this emphasis.
ART 203F Introduction to Photography (4)
ART 203H Introduction to Figure Drawing (4)
ART 303H Figure Drawing II (4)
ART 320 Philosophy of the Arts (3)

**EMPHASIS IN PHOTOGRAPHY (64 Credits)**

**Core Requirements (12 Credits)**
Students must complete the courses listed under "Core Requirements" for the B.A. Degree in Art.

**Requirements (40 Credits)**
Students take a combination of two 304F and/or 305F level studio courses for a total of eight credits. Students take a combination of two 404F and/or 405F level studio courses for a total of eight credits.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 203F Introduction to Photography (4)
ART 303F Photography Studio (4)
ART 304F Photography Studio (4)
ART 305F Photography Studio (4)
ART 404F Photography Studio (4)
ART 405F Photography Studio (4)

**Restricted Electives (12 Credits)**
Students must complete eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.
**Recommended (0 Credits)**
These courses are not required, but may be beneficial to students in this emphasis.
ART 203B Introduction to Graphic Design (4)
ART 203D Introduction to Printmaking (4)
ART 303B Graphic Design Studio (4)
ART 469 Student Internship (2-12)
GCOM 255 Beginning Computer Graphics (3)
MC 430 Documentary Photography (3)

**EMPHASIS IN PRINTMAKING (64 Credits)**

**Core Requirements (12 Credits)**
Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

**Requirements (40 Credits)**
Students take a combination of two 304D and/or 305D level studio courses for a total of eight credits. Students take a combination of two 404D and/or 405D level studio courses for a total of eight credits.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 203D Introduction to Printmaking (4)
ART 303D Printmaking Studio (4)
ART 304D Printmaking Studio (4)
ART 305D Printmaking Studio (4)
ART 404D Printmaking Studio (4)
ART 405D Printmaking Studio (4)

**Restricted Electives (12 Credits)**
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take one art history course at the 300 level or above.

**Recommended (0 Credits)**
These courses are not required, but may be beneficial to students in this emphasis.
ART 203C Introduction to Painting (4)
ART 203F Introduction to Photography (4)
ART 203H Introduction to Figure Drawing (4)
ART 220 Papermaking (4)
ART 303H Figure Drawing II (4)

**EMPHASIS IN SCULPTURE (64 Credits)**

**Core Requirements (12 Credits)**
Students must complete the courses listed under “Core Requirements” for the B.A. Degree in Art.

**Requirements (40 Credits)**
Students take a combination of two 304E and/or 305E level studio courses for a total of eight credits. Students take a combination of two 404E and/or 405E level studio courses for a total of eight credits.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 203E Introduction to Sculpture (4)
ART 303E Intermediate Sculpture (4)
ART 304E Sculpture Studio (4)
ART 305E Sculpture Studio (4)
ART 404E Sculpture Studio (4)
ART 405E Sculpture Studio (4)

**Restricted Electives (12 Credits)**
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a two-dimensional medium. Students must also take one art history course at the 300 level or above.

**Recommended (0 Credits)**
These courses are not required, but may be beneficial to students in this emphasis.
ART 203A Introduction to Ceramics and Clay Processes (4)
ART 203H Introduction to Figure Drawing (4)
ART 203K Introduction to Fiber/Textile Design (4)
ART 338 Non-Western Art (4)
ART 410 Ancient Art (4)
ART 420 Renaissance Art (4)
ART 421 Baroque Art (4)
GCOM 316 Three Dimensional Animation (3)
TECH 230 Manufacturing Processes (3)

**BFA DEGREE IN ART (88 Credits)**

**Core Requirements (31 Credits)**

Students may earn the B.F.A. Degree in Art in the following emphases: Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, and Sculpture. The listed courses are required of all the emphases in the B.F.A. Degree.

**ART 101 Basic Drawing I (4)**
**ART 102 Basic Drawing II (4)**
**ART 125 Foundation Design I (4)**
**ART 126 Foundation Design II (4)**
**ART 233 History of Art I: Prehistory through the Middle Ages (4)**
**ART 234 History of Art II: Renaissance through Modern (4)**
**ART 450 Contemporary Art, Design, and Theory (4)**
**ART 480 BFA Seminar (3)**

**BFA EMPHASIS IN CERAMICS (88 Credits)**

**Core Requirements (31 Credits)**

Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

**Requirements (41 Credits)**

Students may take ART 303A, 304A, and 305A in any order. Students take a combination of two 404A or 405A level studio courses for a total of eight credits. Students must earn a total of seventeen credits in ART 451A and ART 452A.

**ART 203A Introduction to Ceramics and Clay Processes (4)**
**ART 303A Intermediate Pottery/Wheel Throwing (4)**
**ART 304A Intermediate Handbuilding/Ceramic Sculpture (4)**
**ART 305A Technical Ceramics (4)**
**ART 404A Ceramics Studio (4)**
**ART 405A Ceramics Studio (4)**
**ART 451A Ceramic Studio (4-12)**
**ART 452A Ceramic Studio (4-12)**

**Restricted Electives (16 Credits)**

Students must take at least two additional introductory level courses chosen from ART 203B-203L. At least four credits must be in a two-dimensional medium. Students must also take two art history courses at the 300 level or above.

**Recommended (0 Credits)**

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

**ART 203E Introduction to Sculpture (4)**
**ART 203F Introduction to Photography (4)**
**ART 303E Intermediate Sculpture (4)**
**ART 304E Sculpture Studio (4)**
**ART 320 Philosophy of the Arts (3)**
**ART 404E Sculpture Studio (4)**
**ART 405E Sculpture Studio (4)**
**CHEM 102 Survey of Basic Principles of Chemistry (3)**
**GEOS 115 Physical Geology (4)**

**BFA EMPHASIS IN DRAWING (88 Credits)**

**Core Requirements (31 Credits)**

Students must complete the courses listed under “Core Requirements” for the B.F.A. Degree in Art.

**Requirements (41 Credits)**

Students take a combination of two 304H and/or 305H level studio courses for a total of eight credits. Students take a combination of two 404H and/or 405H level studio courses for a total of eight credits. Students must complete a total of seventeen credits in ART 451H and ART 452H.

**ART 203H Introduction to Figure Drawing (4)**
**ART 303H Figure Drawing II (4)**
**ART 304H Drawing Studio (4)**
**ART 305H Drawing Studio (4)**
**ART 404H Drawing Studio (4)**
**ART 405H Drawing Studio (4)**
**ART 451H Drawing Studio (4-12)**
**ART 452H Drawing Studio (4-12)**
Restricted Electives (16 Credits)
A minimum of eight introductory credits encompassing both two- and three-dimensional media is required. Students must choose from ART 203A-203L for these credits. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)
These courses are not required, but may be beneficial to students in this emphasis.
ART 203C Introduction to Painting (4)
ART 203D Introduction to Printmaking (4)

BFA EMPHASIS IN GRAPHIC DESIGN (88 Credits)
Core Requirements (31 Credits)
Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)
Students take 304B and 305B level studio courses for a total of eight credits. Students take 404B and 405B level studio courses for a total of eight credits. Students must take a total of seventeen credits in ART 451B, 452B, and 469. Students should consult with their faculty advisor to make specific arrangements for fulfillment of these required credits.
ART 203B Introduction to Graphic Design (4)
ART 303B Graphic Design Studio (4)
ART 304B Graphic Design Studio (4)
ART 305B Graphic Design Studio (4)
ART 404B Graphic Design Studio, Contracted Work (4)
ART 405B Graphic Design Studio, Contracted Work (4)
ART 451B Graphic Design Studio (4-12)
ART 452B Graphic Design Studio (4-12)
ART 469 Student Internship (2-12)

Restricted Electives (16 Credits)
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)
These courses are not required, but may be beneficial to students in this emphasis.
ART 203L Introduction to Illustration (4)
CMST 100 Speech Communication (3)
GCOM 255 Beginning Computer Graphics (3)
GCOM 266 Introduction to Multimedia (3)
GCOM 316 Three Dimensional Animation (3)
GCOM 355 Intermediate Computer Graphics (3)
GCOM 366 Web Authoring with Dreamweaver (3)

BFA EMPHASIS IN PAINTING (88 Credits)
Core Requirements (31 Credits)
Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)
Students take a combination of two 304C and/or 305C level studio courses for a total of eight credits. Students take a combination of two 404C and/or 405C level studio courses for a total of eight credits. Students must earn a total of seventeen credits in ART 451C and 452C.
ART 203C Introduction to Painting (4)
ART 303C Painting Studio (4)
ART 304C Painting Studio (4)
ART 305C Painting Studio (4)
ART 404C Painting Studio (4)
ART 405C Painting Studio (4)
ART 451C Painting Studio (4-12)
ART 452C Painting Studio (4-12)

Restricted Electives (16 Credits)
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)
These courses are not required, but may be beneficial to students in this emphasis.
ART 203F Introduction to Photography (4)
ART 203H Introduction to Figure Drawing (4)
ART 303H Figure Drawing II (4)
ART 320 Philosophy of the Arts (3)
BFA EMPHASIS IN PHOTOGRAPHY (88 Credits)

Core Requirements (31 Credits)
Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)
Students take a combination of two 304F and/or 305F level studio courses for a total of eight credits. Students take a combination of two 404F and/or 405F level studio courses for a total of eight credits. Students must complete a total of seventeen credits of ART 451F and 452F.

ART 203F Introduction to Photography (4)
ART 303F Photography Studio (4)
ART 304F Photography Studio (4)
ART 305F Photography Studio (4)
ART 404F Photography Studio (4)
ART 405F Photography Studio (4)
ART 451F Photography Studio (4-12)
ART 452F Photography Studio (4-12)

Restricted Electives (16 Credits)
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)
These courses are not required, but may be beneficial to students in this emphasis.
ART 203B Introduction to Graphic Design (4)
ART 203D Introduction to Printmaking (4)
ART 220 Papermaking (4)
ART 303B Graphic Design Studio (4)
ART 469 Student Internship (2-12)
GCOM 255 Beginning Computer Graphics (3)
MC 430 Documentary Photography (3)

BFA EMPHASIS IN PRINTMAKING (88 Credits)

Core Requirements (31 Credits)
Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)
Students take a combination of two 304D and/or 305D level studio courses for a total of eight credits. Students take a combination of two 404D and/or 405D level studio courses for a total of eight credits. Additionally, students must earn a total of seventeen credits in ART 451D and 452D.

ART 203D Introduction to Printmaking (4)
ART 303D Printmaking Studio (4)
ART 304D Printmaking Studio (4)
ART 305D Printmaking Studio (4)
ART 404D Printmaking Studio (4)
ART 405D Printmaking Studio (4)
ART 451D Printmaking Studio (4-12)
ART 452D Printmaking Studio (4-12)

Restricted Electives (16 Credits)
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a three-dimensional medium. Students must also take two art history courses at the 300 level or above.

Recommended (0 Credits)
These courses are not required, but may be beneficial to students in this emphasis.
ART 203C Introduction to Painting (4)
ART 203H Introduction to Figure Drawing (4)
ART 303H Figure Drawing II (4)

BFA EMPHASIS IN SCULPTURE (88 Credits)

Core Requirements (31 Credits)
Students must complete the courses listed under the “Core Requirements” for the B.F.A. Degree in Art.

Requirements (41 Credits)
Students take a combination of two 304E and/or 305E level studio courses for a total of eight credits. Students take a combination of two 404E and/or 405E level studio courses for a total of eight credits. Additionally, students must earn a total of seventeen credits in ART 451E and 452E.

ART 203E Introduction to Sculpture (4)
ART 303E Intermediate Sculpture (4)
ART 304E Sculpture Studio (4)
ART 305E Sculpture Studio (4)
ART 404E Sculpture Studio (4)
ART 405E Sculpture Studio (4)
ART 451E Sculpture Studio (4-12)
ART 452E Sculpture Studio (4-12)

**Restricted Electives (16 Credits)**
Students must complete at least eight additional credits in introductory courses chosen from ART 203A-203L. At least four credits must be in a two-dimensional medium. Students must also take two art history courses at the 300 level or above.

**Recommended (0 Credits)**
These courses are not required, but may be beneficial to students in this emphasis.
ART 203A Introduction to Ceramics and Clay Processes (4)
ART 203H Introduction to Figure Drawing (4)
ART 203K Introduction to Fiber/Textile Design (4)
ART 338 Non-Western Art (4)
ART 410 Ancient Art (4)
ART 420 Renaissance Art (4)
ART 421 Baroque Art (4)
GCOM 316 Three Dimensional Animation (3)
TECH 216 3D Modeling (3)
TECH 230 Manufacturing Processes (3)

**B.S. DEGREE IN ART EDUCATION (90 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-three credits to the major. Consult the Secondary and Kindergarten-Grade 12 Education section of this Bulletin.
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 233 History of Art I: Prehistory through the Middle Ages (4)
ART 234 History of Art II: Renaissance through Modern (4)
ART 350 Methods and Materials: Art for the Elementary Classroom (3)
ART 375 Art Methods 7-12 (3)
ART 402 Advanced Methods: Art Education (3)

**Restricted Electives (24 Credits)**
Students must complete a minimum of twelve 203 level credits encompassing both two and three dimensional media. Students must also complete at least eight credits in studio art at the 303 level and at least four credits at the 304/305 level.

**MINOR IN ART (32 Credits)**

**Requirements (24 Credits)**
ART 101 Basic Drawing I (4)
ART 102 Basic Drawing II (4)
ART 125 Foundation Design I (4)
ART 126 Foundation Design II (4)
ART 233 History of Art I: Prehistory through the Middle Ages (4)
ART 234 History of Art II: Renaissance through Modern (4)

**Restricted Electives (8 Credits)**
Students must take two courses from the following list, at least one of which must be a three-dimensional introductory course (ART 203A or ART 203E).
ART 203A Introduction to Ceramics and Clay Processes (4)
ART 203B Introduction to Graphic Design (4)
ART 203C Introduction to Painting (4)
ART 203D Introduction to Printmaking (4)
ART 203E Introduction to Sculpture (4)
ART 203F Introduction to Photography (4)
ART 203H Introduction to Figure Drawing (4)
ART 203K Introduction to Fiber/Textile Design (4)
ART 203L Introduction to Illustration (4)

**MINOR IN ART HISTORY (28 Credits)**

**Requirements (8 Credits)**
ART 233 History of Art I: Prehistory through the Middle Ages (4)
ART 234 History of Art II: Renaissance through Modern (4)

Restricted Electives (4 Credits)
Students must earn four credits from the following list of courses:
ART 101 Basic Drawing I (4)
ART 125 Foundation Design I (4)

Electives (16 Credits)
Students must earn sixteen credits in Art History courses at the 300 level or above.

See Physics and Astronomy

Athletics Department
Nemzek 134, (218) 477-2622
Director of Athletics: Alfonso Scandrett
Chair: Tammy Blake-Kath
Faculty: Keith Barnier, Jason Beschta, Rollie Bulock, Rhonda Denbow, Chad Eisele, Stu Engen, Chad Martin, Karla Nelson, Todd Peters, Katy Peterson, Keenan Spiess, Damon Tomoe

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 five men’s teams and nine women’s teams. Men’s sports include basketball, cross-country, football, track (indoor and 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.

Health and Physical Education Department
Nemzek Hall 106D, (218) 477-2318
Chair: Wendy Frappier
Program Coordinator: Dawn Hammerschmidt
Faculty: Chris Huot, Ronda Peterson, Andrea Scott, Keith Wiedrich

The Athletic Training Education Program at MSUM is a nationally accredited program through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). 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, industrial and corporate settings, and with professional athletic teams. In addition, this program provides preparation for other allied health professions and graduate studies.

Athletic Training Education Program
Admission Requirements
Athletic Training coursework and clinical education experiences are sequential. The sequencing of coursework and clinical education provides the Athletic Training student the opportunity to gain knowledge and master skills over time. The first year is observational; the student completes the required coursework and observational hours. During the second semester of the observational year the student applies to the Athletic Training Education Program.

A limited number of applicants will be admitted to the Athletic Training Education Program. The number of students admitted into the Athletic Training Education Program will be dependent upon the number of clinical experience sites available for that given year. Application to the Athletic Training Education Program will take place during spring semester. The policy for transfer students will include a careful evaluation of the students’ clinical experiences and educational competencies, and their compatibility with MSUM’s Athletic Training Education Program. Transfer students should contact the Program Coordinator regarding requirements. Only admitted students will proceed in the curriculum. Interested students must meet with the Program Coordinator before declaring Athletic Training as a major.

Competitive admittance is dependent upon successful completion of the following:
1. Admission to Minnesota State University Moorhead.
2. Submission of an official transcript.
3. Academic Achievement:
   • a grade of C- or better in BIOL 104 Human Biology or BIOL 111 Cell Biology;
   • a grade of C- or better in CHEM 110 General Chemistry I;
   • a grade of B or better in AT 120 Introduction to Athletic Training;
   • a grade of B or better in AT 220 Care & Prevention of Athletic Injuries;
   • a grade of B or better in AT 220L Care & Prevention of Athletic Injuries Lab.

4. Completion of 55 hours of documented Athletic Training room observation (30 Fall semester, 25 Spring semester).

5. Submission of three letters of recommendation.

6. Submission of application form.

7. Submission of a formal letter of application (essay).

8. Completion of an on-campus interview with a committee of Certified Athletic Trainers.

9. Completion of immunizations as required by MSUM including Hepatitis B, TB (yearly), and MMR vaccinations.

10. Completion of a physical examination and medical history questionnaire.

11. Completion of Technical Standards.

12. Completion of a criminal background check, compliance/consent form, and HIPPA training (prior to clinical experience at affiliated sites).

13. Membership in national, district, and state athletic training organizations.

**Retention Requirements in Athletic Training Education Program**

Once accepted into the Athletic Training Education Program, the student will continue to meet the academic and clinical requirements of the program. If a student fails to meet the retention requirements of the program, the student will not be allowed to progress through the program until retention requirements are met and dependent upon clinical experience availability.

**Sophomore Year:**
- minimum 2.5 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- obtain memberships to the National Athletic Trainers’ Association (NATA), Great Lakes Athletic Trainers’ Association (GLATA), and the Minnesota Athletic Trainers’ Association (MATA);
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA’s Code of Ethics and Constitution;
- compliance with all established policies defined in the Athletic Training Student Handbook;
- compliance with clinical assignments and directions given by the athletic training staff;
- complete proper paperwork for practicum courses within the first week of school.

**Junior Year:**
- minimum 2.75 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- maintain professional student memberships to NATA, GLATA, and MATA;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA’s Code of Ethics and Constitution;
- compliance with all established policies defined in the Athletic Training Student Handbook;
- compliance with clinical assignments and directions given by the athletic training staff;
- repeated TB immunization.

**Senior Year:**
- minimum 2.75 cumulative GPA;
- minimum 3.0 GPA in athletic training major courses;
- maintain professional student memberships to NATA, GLATA, and MATA;
- demonstrate competency in accordance to appropriate level;
- compliance with the NATA’s Code of Ethics and Constitution;
- compliance with all established policies defined in the Athletic Training Student Handbook;
- compliance with clinical assignments and directions given by the athletic training staff;
- repeated TB immunization.

The National Athletic Trainers’ Association has outlined areas of expertise and specific domains and competencies within each of the following twelve areas. This educational framework serves as the foundation needed to sit for the Board of Certification examination which is a necessary credential to work as an Athletic Trainer. Upon completion of the course of study required for Athletic Training, the student should have a collection of knowledge, skills, and values regarding the following areas:

- risk management and injury prevention
- pathology of injuries and illnesses
- assessment and evaluation
- acute care of injury and illness
- pharmacology
• therapeutic modalities
• therapeutic exercise
• general medical conditions and disabilities
• nutritional aspects of injury and illness
• psychosocial intervention and referral
• health care administration
• professional development and responsibilities

STUDENT LEARNING OUTCOMES
Students who successfully complete the athletic training education program will:
• Demonstrate knowledge consistent with the entry-level education as defined by the National Athletic Trainers’ Association Educational Competencies.
• Employ critical thinking and clinical decision-making skills while providing athletic training services.
• Be able to communicate effectively, through written and verbal means, with the general public and other medical and health professionals.
• Provide athletic training services within the ethical, professional, clinical, and legal parameters of the Board of Certification’s® Standards of Professional Practice and/or state practice act.
• Demonstrate an appreciation of the need for community involvement and citizenship as an allied health professional.

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

B.S. DEGREE IN ATHLETIC TRAINING
(77-78 Credits)
Requirements (57 Credits)
AT 120 Introduction to Athletic Training (1)
AT 220 Care and Prevention of Athletic Injuries (2)
AT 220L Care and Prevention of Athletic Injuries Lab (1)
AT 320 Athletic Training Techniques (3)
AT 321 Athletic Injury Assessment: Upper Extremity (3)
AT 321L Athletic Injury Assessment: Upper Extremity Lab (1)
AT 322 Athletic Injury Assessment: Lower Extremity (3)
AT 322L Athletic Injury Assessment: Lower Extremity Lab (1)
AT 323 Athletic Training Modalities (3)
AT 323L Athletic Training Modalities Lab (1)
AT 324 Athletic Injury Rehabilitation (3)
AT 324L Athletic Injury Rehabilitation Lab (1)
AT 361 Athletic Training Practicum I (1)
AT 362 Athletic Training Practicum II (1)
AT 363 Athletic Training Practicum III (1)
AT 364 Athletic Training Practicum IV (1)
AT 420 Athletic Training Senior Seminar (2)
AT 440 Pharmacology and Medical Issues (3)
AT 460 Organization and Administration of Athletic Training (3)
AT 465 Athletic Training Practicum V (1)
AT 466 Athletic Training Practicum VI (1)
HLTH 125 First Aid and CPR (2)
HLTH 305 Introduction to Nutrition (3)
PE 320 Anatomical Kinesiology (3)
PE 321 Human Physiology (3)
PE 420 Biomechanics (3)
PE 421 Physiology of Exercise (3)
PE 473 Exercise Testing and Interpretation (3)

Related Requirements (14-15 Credits)
BIOL 104 Human Biology (3)
OR BIOL 111 Cell Biology (4)
CHEM 110 Fundamentals of Chemistry (4)
OR CHEM 200 General Chemistry I (4)
MATH 236 Applied Statistics (4)
PSY 113 General Psychology (3)

Electives (6 Credits)
Students must choose six elective credits from the following list of courses:
BIOL 236 Introduction to Microbiology (3)
CHEM 180 Introduction to Organic and Biochemistry (4)
CHEM 185 Introduction to Organic and Biochemistry Lab (1)
CSIS 103 Computer Concepts and Applications (3)
ENGL 387 Technical Report Writing (4)
HLTH 110 Personal Health and Wellness (3)
PE 311 Motor Learning (2)

See Biosciences

**Biosciences Department**

**King Hall 103, (218) 477-2572**

**Chair:** Donna Bruns Stockrahm

**Faculty:** Ellen Brisch, Chris Chastain, George Davis, Linda Fuselier, Michelle Malott, Richard Pemble, Joseph Provost, David Rodenbaugh, Alison Wallace, Mark Wallert, Kathryn Wise, Brian Wisenden

The department offers a Bachelor of Arts degree in Biology and Bachelor of Science degrees in Life Science (Teaching) and Medical Technology. In addition to the B.A. in Biology, three emphases are available for students majoring in Biology: a Biochemistry and Biotechnology Emphasis that leads to a Bachelor's degree in Biology and Chemistry, a Health and Medical Sciences Emphasis that may be appropriate for prospective health professionals in a variety of fields, and an Ecology and Evolutionary Biology Emphasis that may be appropriate for students interested in natural resources, ecology, and evolution. Biosciences faculty advise students in a number of pre-professional areas such as pre-medicine, pre-optometry, pre-veterinary medicine, pre-physical and occupational therapy, pre-physician's assistant, pre-wildlife management, pre-chiropractic, pre-mortuary science, pre-respiratory care and pre-forestry. Minors in Biology, Botany, Health and Medical Sciences, and Zoology are designed to support other fields of study such as art, psychology, education, chemistry and certain business majors. Teaching licensure is available in Life Sciences (grades 9-12). This licensure meets the requirements for licensure in Science (grades 5-8). The sequential nature of the biology curriculum and the necessity to coordinate certain biology courses with courses required in other disciplines makes it important that students considering any of the majors in the Biosciences Department consult a member of the Biosciences faculty early in their college career.

Transfer students wishing to complete any Biology major must complete at least 6 credits selected from approved 300-400 level courses in the Biosciences Department at Minnesota State University Moorhead regardless of the number of transfer credits accepted toward the major. For the B.S. in Medical Technology, completion of a criminal background check is necessary before taking credits in BIOL 460.

**STUDENT LEARNING OUTCOMES**

Students will:

- understand the basic principles of the biological sciences;
- demonstrate competency in basic laboratory and field skills;
- demonstrate the computer skills required for their biology classes;
- conduct searches of the scientific literature;
- communicate effectively on scientific topics;
- conduct scientific investigations;
- participate in professional activities.

**UPPER LEVEL WRITING REQUIREMENT**

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

**B.A. DEGREE IN BIOLOGY (58-66 Credits)**

*Requirements (24 Credits)*

- BIOL 111 Cell Biology (4)
- BIOL 115 Organismal Biology (4)
- BIOL 341 Genetics (4)
- BIOL 345 Principles of Ecology (4)
- BIOL 348 Evolutionary Biology (3)
- BIOL 350 Microbiology (4)
- BIOL 484 Biology Seminar (1)

*Restricted Electives (12-16 Credits)*

Students must take one course from the Physiology area (BIOL 347, 349, or 360); one course from the Zoology area (BIOL 321, 322,
372, 402, or 455); one course from the Cellular and Molecular area (BIOL 365, 385, 385L, 430, or 438); and one course from the Botany area (BIOL 305, 325, or 326). Students who desire to enroll in BIOL 385L must also enroll in BIOL 385.

BIOL 305 General Botany (4)
BIOL 321 Invertebrate Zoology (3)
BIOL 322 Vertebrate Zoology (3)
BIOL 325 Plant Taxonomy (3)
BIOL 326 Field Botany (3)
BIOL 347 Plant Physiology (3)
BIOL 349 Human Physiology (4)
BIOL 360 Cell and Vertebrate Systems Physiology (4)
BIOL 365 Developmental Biology (4)
BIOL 372 Aquatic Biology (4)
BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology 385 Lab (1)
BIOL 402 Principles of Animal Behavior (3)
BIOL 430 Immunobiology (4)
BIOL 438 Medical Microbiology (4)
BIOL 455 Wildlife Ecology (3)

**Related Requirements (22-26 Credits)**

In addition to the listed courses, students must complete at least six credits in mathematics at the level of MATH 127 or above.

CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

### EMPHASIS IN BIOCHEMISTRY AND BIOTECHNOLOGY (81-84 Credits)

#### Requirements (58 Credits)

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 341 Genetics (4)
BIOL 350 Microbiology (4)
BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology 385 Lab (1)
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)
CHEM 360 Survey of Organic Chemistry: Part II (3)
CHEM 365 Organic Chemistry Laboratory II (1)
CHEM 380 Analytical Chemistry I (4)
CHEM 400 Biochemistry I (3)
CHEM 405 Biochemistry Laboratory I (1)
CHEM 410 Biochemistry II (3)
CHEM 415 Biochemistry Laboratory II (1)
BIOL 475 Biotechniques I (5)
OR CHEM 475 Biotechniques I (5)
BIOL 476 Biotechniques II (5)
OR CHEM 476 Biotechniques II (5)

#### Restricted Electives (7-8 Credits)

Students must select one course from the Physiology area (BIOL 347 or 360) and one course from the Cellular and Molecular area (BIOL 365 or 430).

BIOL 347 Plant Physiology (3)
BIOL 360 Cell and Vertebrate Systems Physiology (4)
BIOL 365 Developmental Biology (4)
BIOL 430 Immunobiology (4)

#### Related Requirements (16-18 Credits)

Students must choose a Physics sequence (PHYS 160, 161 or PHYS 200, 201) and a Mathematics sequence (MATH 234, 261 or MATH 261,262).

PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Chemistry I (5)
AND PHYS 201 General Chemistry II (5)
AND MATH 234 Introduction to Probability and
Statistics (4)
AND MATH 261 Calculus I (4)
OR MATH 261 Calculus I (4)
AND MATH 262 Calculus II (4)

EMPHASIS IN ECOLOGY AND EVOLUTIONARY BIOLOGY (66-73 Credits)

Core Requirements (27-28 Credits)

Students may take BIOL 385L when they take
BIOL 385.
BIOL 111 Cell Biology (4)
BIOL 115 Organismic Biology (4)
BIOL 341 Genetics (4)
BIOL 345 Principles of Ecology (4)
BIOL 348 Evolutionary Biology (3)
BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology 385 Lab (1)
BIOL 472 Field Biology Research Techniques (4)
BIOL 484 Biology Seminar (1)

Restricted Electives (12-15 Credits)

Students must take one course from the Biodiversity area (BIOL 305, 321, 322, 325, or 350); one course from the Physiology area
(BIOL 347 or 360); and two courses from the Ecology area (BIOL 326, 372, 402, or 455).
BIOL 305 General Botany (4)
BIOL 321 Invertebrate Zoology (3)
BIOL 322 Vertebrate Zoology (3)
BIOL 325 Plant Taxonomy (3)
BIOL 326 Field Botany (3)
BIOL 347 Plant Physiology (3)
BIOL 350 Microbiology (4)
BIOL 360 Cell and Vertebrate Systems Physiology (4)
BIOL 372 Aquatic Biology (4)
BIOL 402 Principles of Animal Behavior (3)
BIOL 455 Wildlife Ecology (3)

Related Requirements (27-30 Credits)

In addition to the listed courses, students must take one additional math course at the level of MATH 127 or above.
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
ENGL 387 Technical Report Writing (4)
MATH 234 Introduction to Probability and
Statistics (4)
OR MATH 236 Applied Statistics (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

Recommended (0 Credits)

The following courses are not required, but are recommended.
BIOL 365 Developmental Biology (4)
BIOL 390 Topics: Biology (1–4)
BIOL 470 Undergraduate Laboratory Teaching (1)
BIOL 497 Undergraduate Research in Biology (1-3)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)
CHEM 360 Survey of Organic Chemistry: Part II (3)
CHEM 365 Organic Chemistry Laboratory II (1)
CSIS 104 Spreadsheet and Database Applications (3)
GEOS 405 Geographic Information Systems (3)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)

EMPHASIS IN HEALTH AND MEDICAL SCIENCES (68-74 Credits)

Requirements (25 Credits)

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 323 Human Anatomy (4)
BIOL 341 Genetics (4)
BIOL 349 Human Physiology (4)
BIOL 350 Microbiology (4)
BIOL 484 Biology Seminar (1)

Restricted Electives (3-4 Credits)
Students must take one course, of at least three credits, from those listed below. BIOL 385L may be taken with BIOL 385.
BIOL 365 Developmental Biology (4)
BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology 385 Lab (1)
BIOL 430 Immunobiology (4)
BIOL 438 Medical Microbiology (4)

Related Requirements (22-27 Credits)
With the permission of their faculty advisor, students may substitute CHEM 180 and 185L for CHEM 210. Students must complete at least six credits in mathematics at the level of MATH 127 or higher.
CHEM 200 General Chemistry I (4)
   AND CHEM 210 General Chemistry II (4)
OR CHEM 200 General Chemistry I (4)
   AND CHEM 180 Introduction to Organic and Biochemistry (4)
   AND CHEM 185 Introduction to Organic and Biochemistry Lab (1)
PHYS 160 College Physics I (4)
   AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
   AND PHYS 201 General Physics II (4)

Electives (18 Credits)
Students must earn a minimum of eighteen credits from biology courses approved for majors and/or the following list of electives. Course selection should be made in consultation with a faculty advisor and will vary with the student’s pre-professional interest.
BIOL 300 Biology of Women (3)
CHEM 180 Introduction to Organic and Biochemistry (4)
CHEM 185 Introduction to Organic and Biochemistry Lab (1)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)
CHEM 360 Survey of Organic Chemistry: Part II (3)
CHEM 365 Organic Chemistry Laboratory II (1)
CHEM 380 Analytical Chemistry I (4)
CHEM 400 Biochemistry I (3)
CHEM 405 Biochemistry Laboratory I (1)
CHEM 410 Biochemistry II (3)
CHEM 415 Biochemistry Laboratory II (1)
CMST 210 Introduction to Communication Theory (3)
CMST 308 Leadership and Group Communication (3)
CSIS 103 Computer Concepts and Applications (3)
CSIS 104 Spreadsheet and Database Applications (3)
ENGL 387 Technical Report Writing (4)
HLTH 301 Health Aspects of Aging (3)
HLTH 305 Introduction to Nutrition (3)
HLTH 315 Health Agencies and Services (3)
HLTH 326 Epidemiology (3)
HLTH 330 Disease Prevention (2)
HLTH 414 Health Services Planning and Evaluation (3)
HLTH 416 Health Services Management (3)
HLTH 418 Medical and Health Care Law (3)
HLTH 419 Financial Management of Health Care Organizations (3)
MATH 234 Introduction to Probability and Statistics (4)
MATH 236 Applied Statistics (4)
MGMT 360 Principles of Management (3)
NURS 350 Applied Pathophysiology (4)
PE 320 Anatomical Kinesiology (3)
PE 420 Biomechanics (3)
PHIL 311 Morals and Medicine (3)
PSY 120 Social Behavior (3)
PSY 202 Developmental Psychology (3)
PSY 265 Health Psychology (3)
PSY 310 Psychology of Women (3)
PSY 317 Alcoholism and Drug Abuse (3)
PSY 320 Social Psychology (3)
PSY 345 Physiological Psychology (3)
PSY 352 Psychological Measurement (3)
PSY 402 Child/Adolescent Psychology (3)
PSY 403 Adulthood and Aging (3)
PSY 461 Theories of Personality (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 403 Health Care Issues and Services (3)
SW 411 Chemical Dependency (3)

B.S. DEGREE IN LIFE SCIENCE-
TEACHING (104-112 Credits)

Requirements (27 Credits)
Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major total. Completion of this degree meets the requirements for licensure in Science (grades 5-8) and Life Science (grades 9-12).

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 341 Genetics (4)
BIOL 345 Principles of Ecology (4)
BIOL 348 Evolutionary Biology (3)
BIOL 350 Microbiology (4)
BIOL 440 Middle School/Secondary Science Teaching Methods (3)
BIOL 484 Biology Seminar (1)

Restricted Electives (12-16 Credits)
Students must take one course from the Physiology area (BIOL 347, 349, or 360); one course from the Zoology area (BIOL 321, 322, 372, 402, or 455); one course from the Cellular and Molecular area (BIOL 365, 385, 385L, 430, or 438); and one course from the Botany area (BIOL 305, 325, or 326). Students who desire to enroll in BIOL 385L must also enroll in BIOL 385.

BIOL 305 General Botany (4)
BIOL 321 Invertebrate Zoology (3)
BIOL 322 Vertebrate Zoology (3)
BIOL 325 Plant Taxonomy (3)
BIOL 326 Field Botany (3)
BIOL 347 Plant Physiology (3)
BIOL 349 Human Physiology (4)
BIOL 360 Cell and Vertebrate Systems Physiology (4)
BIOL 365 Developmental Biology (4)
BIOL 372 Aquatic Biology (4)
BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology 385 Lab (1)
BIOL 402 Principles of Animal Behavior (3)
BIOL 430 Immunobiology (4)
BIOL 438 Medical Microbiology (4)
BIOL 455 Wildlife Ecology (3)

Related Requirements (32-36 Credits)
In addition to the courses listed below, students must complete six credits in mathematics at the MATH 127 level or above.

CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
GEOS 115 Physical Geology (4)
GEOS 116 Historical Geology (3)
GEOS 360 Planetary Science (3)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)
B.S. DEGREE IN MEDICAL TECHNOLOGY (87-88 Credits)

Requirements (64 Credits)
Biology 460 may be taken for 12 credits and must be repeated to a total of 36 credits to be completed in one year at an affiliated hospital.
BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 341 Genetics (4)
BIOL 349 Human Physiology (4)
BIOL 350 Microbiology (4)
BIOL 430 Immunobiology (4)
BIOL 438 Medical Microbiology (4)
BIOL 460 Medical Technology Clinical Education (8-12)

Related Requirements (23-24 Credits)
In addition to the Chemistry courses listed below, students must earn at least three credits at the level of MATH 127 or above.
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)
CHEM 360 Survey of Organic Chemistry: Part II (3)
CHEM 365 Organic Chemistry Laboratory II (1)
CHEM 400 Biochemistry I (3)
CHEM 405 Biochemistry Laboratory I (1)

Recommended (0 Credits)
Students who desire to enroll in BIOL 385L must also enroll in BIOL 385.
BIOL 323 Human Anatomy (4)
BIOL 365 Developmental Biology (4)
BIOL 385 Molecular Biology (3)
BIOL 385L Molecular Biology 385 Lab (1)
CHEM 380 Analytical Chemistry I (4)
CHEM 410 Biochemistry II (3)
CHEM 415 Biochemistry Laboratory II (1)
CSIS 104 Spreadsheet and Database Applications (3)
MATH 234 Introduction to Probability and Statistics (4)
MATH 236 Applied Statistics (4)
MGMT 360 Principles of Management (3)
PHYS 160 College Physics I (4)

MINOR IN BIOLOGY (21 Credits)
Requirements (12 Credits)
BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 305 General Botany (4)

Electives (9 Credits)
Students must earn nine credits in approved Biology electives.

MINOR IN BOTANY (20 Credits)
Requirements (8 Credits)
BIOL 111 Cell Biology (4)
BIOL 305 General Botany (4)

Electives (12 Credits)
Students must earn twelve credits in approved electives in Biology and Botany.

MINOR IN HEALTH AND MEDICAL SCIENCES (19-20 Credits)
Requirements (16 Credits)
BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 323 Human Anatomy (4)
BIOL 349 Human Physiology (4)

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

MINOR IN ZOOLOGY (20 Credits)

Requirements (8 Credits)
BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)

Electives (12 Credits)
Students must earn twelve credits of approved electives in Biology and Zoology courses.

School of Business
Center for Business 207A, (218) 477-4646
Co-Chairs: Lee Dexter and James Swenson
Faculty: M. Wayne Alexander, Mary Bader, Sheri Erickson, Peter Geib, James Hansen, Rajiv Kalra, Jerome Kuperman, Vinod Lall, Ruth Lumb, Thomas Pearce, Cynthia Phillips, Olgun Sahin, George Sanderson, Marlene Sanderson, Joann Segovia, Leonard Sliwoski, Sunantha Teyarachakul, William Violet, Marsha Weber, Hurrem Yilmaz

Areas of Study
MSUM’s business curriculum is designed to meet guidelines established by AACSB for accredited business programs. Majors in Accounting, Business Administration, Finance, International Business, Management and Marketing are offered. Related requirements are in economics, information systems, mathematics and communications. MSUM offers a four-year graduation guarantee to its business majors.

SCHOOL OF BUSINESS ADMISSION POLICY
Beginning Fall 2001, MSUM students pursuing any School of Business major must be admitted to the School of Business before they may enroll in any upper-level School of Business courses except Accounting 304, Accounting 315, Finance 340, Management 360, and Marketing 310. Enrollment in any of these five classes requires completion of at least 44 semester credits and course prerequisites.

Admission to the School of Business
Admission to the School of Business enables students to register for other upper-level School of Business courses and to pursue any School of Business major or minor.

- Admission requires a student-initiated application and approval by the School of Business. The application must provide evidence of:
  - an overall GPA of at least 2.25 (includes all MSUM courses and courses accepted in transfer);
  - completion of, or current enrollment in, the 60th semester credit;
  - completion of, or current enrollment in, the following MSUM courses or equivalent courses.
    - Accounting 230 & 231
    - Computer Science 103
    - Economics 202 & 204
    - English 101 & 102
    - Mathematics 229 & 234
    - Psychology 113 or Sociology 110
    - Communication Studies 100

When admission is granted based on current enrollment in any of these courses, and the student drops or fails the course, admission to the School of Business and pre-registration for upper-level business courses will be revoked.

- Application to the School of Business requires that the student sign the School of Business Statement of Ethical Student Conduct.
- Students who had officially declared a School of Business major and were taking MSUM classes prior to Fall 2001 need not apply; they will be considered admitted. However, an admission application to the School of Business must be submitted if a student is readmitted after an enrollment break of at least one semester.
- Any student who believes that his or her admission to the program or registration for an upper-level accounting or business course was not evaluated properly may file an appeal with the Dean of the College of Business and Industry. The Dean’s decision shall be final.

One-Semester Enrollment for School of Business Majors
Students who have not completed all of the requirements for admission to the School of Business may apply for one-semester enrollment privileges to take upper-level School of Business courses. A student-initiated application must be approved by the student’s academic advisor. This privilege is for one term (Fall, Spring, or Summer) and will be granted only once. Students must then apply for admission and be approved before registering for upper-level classes in any subsequent term.

Non-Business Majors Seeking a School of Business Minor
Non-business majors seeking a School of Business minor must declare their intent in writing to the School of Business. These students may enroll in Finc 340, Mgmt 360, and/or Mktg 310 if they have completed at least 44 credits by the time of registration and also meet specific course prerequisites. Enrollment in other upper-level School of Business courses will require that a “program override” be obtained from the School of Business. A maximum of 21 upper-level School of Business credits may be taken without applying for admission to the School of Business. Students who subsequently decide to pursue a School of Business major:

• must apply for admission to the School of Business;
• must enroll in at least 50% of the business credits (core plus major) at MSUM after admission.

Enrollment in Upper-Level School of Business Courses by Non-Business Majors and Minors

Several courses offered by the School of Business have been identified by other departments as required or elective courses for students in non-business programs. Students may complete a maximum of 21 upper-level credits without seeking School of Business admission. These students may enroll in upper-level School of Business courses as follows:

• Students who have completed 44 semester credits and who also meet the specific course prerequisites may register for the following courses without any special permission: Finc 340, Mgmt 360, Mktg 310;
• Students whose departments/programs have identified other upper-level School of Business courses as required or elective courses may obtain a “program override” either from the chair of their major department or from the School of Business. Students are expected to have at least junior standing and meet course prerequisites when taking each course.

Students who subsequently decide to seek a School of Business major:

• must apply for admission to the School of Business;
• must enroll in at least 50% of the business credits (Core plus Major) at MSUM after admission.

Graduation Policy for School of Business

All School of Business majors must have a 2.25 overall GPA to graduate. This GPA is based solely on courses taken at MSUM. All School of Business minors must have a 2.00 GPA in courses comprising the minor.

Baccalaureate Degree Programs

Majors in Accounting, Business Administration, Finance, International Business, Management and Marketing are offered. The following program descriptions are subject to change. See Program Worksheets for current degree requirements.

At least 64 non-business semester credits are required. At least half of the minimum credits required for degree completion must be earned from departments other than Accounting, Business Administration and Economics. A maximum of 9 credits of economics can be used to meet this requirement.

Substitution and waivers of courses required for the B.S. degree in Accounting, Business Administration, Finance, International Business, Management and Marketing must be approved in writing by the chair of the School of Business.

At least half of the course requirements for the major or minor must be earned on this campus.

Business majors require:

• completion of related requirements;
• completion of core requirements;
• completion of major requirements and restricted electives; and
• at least 64 non-business credits that may include 9 credits of economics.

STUDENT LEARNING OUTCOMES

Students who graduate from Minnesota State University Moorhead with a major from the School of Business should be able to:

• Exhibit basic knowledge of business principles and processes.
• Write in a clear and professional manner.
• Prepare and deliver effective business presentations.
• Effectively use technologies appropriate to their discipline.
• Identify and analyze ethical issues in a professional context.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each major, typically will have met the School of Business approved upper level writing requirement. See the School of Business or faculty advisor for specific details.

B. S. DEGREE IN ACCOUNTING (82-83 Credits)

Core Requirements (27 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 230</td>
<td>Principles of Accounting I (3)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 231</td>
<td>Principles of Accounting II (3)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 304</td>
<td>Legal Environment of Business (3)</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 315</td>
<td>Accounting Systems (3)</td>
<td>3</td>
</tr>
<tr>
<td>BUS 498</td>
<td>Business Policy and Strategy (3)</td>
<td>3</td>
</tr>
<tr>
<td>FINC 340</td>
<td>Financial Management (3)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 360</td>
<td>Principles of Management (3)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 380</td>
<td>Operations Management (3)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 310</td>
<td>Principles of Marketing (3)</td>
<td>3</td>
</tr>
</tbody>
</table>
Related Requirements (28-29 Credits)
In addition to the courses listed below, students must take one global course and one demographic diversity course. This requirement can be met by taking one "F" and one “F1” course in Liberal Studies.
CMST 100 Speech Communication (3)
CSIS 103 Computer Concepts and Applications (3)
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
MATH 229 Fundamentals of Applied Mathematics (3)
MATH 234 Introduction to Probability and Statistics (4)
PHIL 390 Business Ethics (3)
PSY 113 General Psychology (3)
AND SOC 110 Introduction to Sociology (3)
OR PSY 113 General Psychology (3)
AND PSY 120 Social Behavior (3)
OR SOC 110 Introduction to Sociology (3)
AND SOC 230 Social Psychology (3)
ENGL 387 Technical Report Writing (4)
OR CMST 301 Business and Professional Communication (3)

Requirements (24 Credits)
ACCT 306 Contracts and Business Entities (3)
ACCT 330 Intermediate Accounting I (3)
ACCT 331 Intermediate Accounting II (3)
ACCT 340 Introduction to Taxation (3)
ACCT 350 Cost Accounting (3)
ACCT 430 Advanced Accounting (3)
ACCT 431 Non-Profit Accounting (3)
ACCT 460 Audit I (3)

Restricted Electives (3 Credits)
(Students may apply up to three semester hours of ACCT 469 to this category.)
ACCT 307 Commercial Transactions, Property and Special Topics (3)
ACCT 420 International Accounting (3)
ACCT 441 Individual Income Tax (3)
ACCT 441L Individual Income Tax-VITA Experience (1)
ACCT 443 Corporate/Partnership Tax (3)
ACCT 446 Estate, Gift and Trust Taxation (3)
ACCT 461 Audit II (3)
ACCT 469 Internship (1-12)
ACCT 490 Topics in Accounting (1-3)

MINOR IN ACCOUNTING:
BUSINESS MAJOR (15 Credits)
Requirements (12 Credits)
ACCT 315 Accounting Systems (3)
ACCT 330 Intermediate Accounting I (3)
ACCT 331 Intermediate Accounting II (3)
ACCT 340 Introduction to Taxation (3)

Restricted Electives (3 Credits)
Students will choose one additional accounting course numbered 306 or higher.

MINOR IN ACCOUNTING:
NON-BUSINESS MAJOR (24 Credits)
Requirements (24 Credits)
ACCT 230 Principles of Accounting I (3)
ACCT 231 Principles of Accounting II (3)
ACCT 304 Legal Environment of Business (3)
ACCT 306 Contracts and Business Entities (3)
ACCT 315 Accounting Systems (3)
ACCT 330 Intermediate Accounting I (3)
ACCT 331 Intermediate Accounting II (3)
ACCT 340 Introduction to Taxation (3)

BUSINESS CORE REQUIREMENTS
(55-56 Credits)
Core Requirements (27 Credits)
The core courses listed below are required of all students who major in Business Administration, Finance, International Business, Management, or Marketing.

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- ACCT 304 Legal Environment of Business (3)
- BUS 498 Business Policy and Strategy (3)
- FINC 340 Financial Management (3)
- MGMT 360 Principles of Management (3)
- MGMT 370 Management Information Systems (3)
- MGMT 380 Operations Management (3)
- MKTG 310 Principles of Marketing (3)

Related Requirements (28-29 Credits)
In addition to the courses listed, students must take one Global Course and one demographic diversity course. This requirement can be met by taking one “F” and one “F1” course in Liberal Studies.

- CMST 100 Speech Communication (3)
- CSIS 103 Computer Concepts and Applications (3)
- ECON 202 Principles of Economics I: Micro (3)
- ECON 204 Principles of Economics II: Macro (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- PHIL 390 Business Ethics (3)
- PSY 113 General Psychology (3)
- AND SOC 110 Introduction to Sociology (3)

OR

- PSY 113 General Psychology (3)
- AND SOC 120 Social Behavior (3)
- OR SOC 110 Introduction to Sociology (3)
- AND SOC 230 Social Psychology (3)
- ENGL 387 Technical Report Writing (4)
- OR CMST 301 Business and Professional Communications (3)

B.S. DEGREE IN BUSINESS ADMINISTRATION (79-80 Credits)

Core Requirements (55-56 Credits)
Students must complete the courses listed under “Business Core Requirements” and “Related Requirements.”

Requirements (12 Credits)
Students must choose one management, one finance, and one marketing course from those listed below. In addition, students must take one of the following quantitative courses: MGMT 480, MKTG 422, MKTG 419, or ECON 370.

- MGMT 420 Organizational Theory (3)
- OR MGMT 451 Organizational Behavior (3)
- FINC 325 Financial Institutions and Markets (3)
- OR FINC 360 Principles of Investment (3)
- MKTG 311 Marketing Management (3)
- OR MKTG 421 Consumer Behavior (3)

Restricted Electives (12 Credits)
Students must take twelve credits numbered 300 or above from at least two of the following areas: Accounting, Finance, Economics, Management, and Marketing. One of the courses must have an international emphasis (select from MGMT 458, MKTG 444, FINC 445, ACCT 420, ECON 425 or ECON 300. Students may use any combination of three credits of the following courses to satisfy a maximum of one Business Administration elective.

- FINC 406 Small Business Management Consulting (1-2)
- FINC 469 Student Internship (2-8)
- FINC 497 Problems in Finance (1-3)
- MGMT 406 Small Business Management Consulting (1-2)
- MGMT 469 Student Internship (2-8)
- MGMT 497 Problems in Management (1-3)
- MKTG 406 Small Business Management Consulting (1-2)
- MKTG 469 Student Internship (2-8)
- MKTG 497 Problems in Marketing (1-3)

MINOR IN BUSINESS ADMINISTRATION: BUSINESS MAJOR (15 Credits)

Restricted Electives (15 Credits)
Students must take fifteen credits in Business Administration courses above the major requirements in any of the business programs.
Courses which satisfy major requirements cannot be used to satisfy minor requirements. The courses must be chosen from at least two of the following areas: Accounting, Economics, Finance, Management, or Marketing.

**MINOR IN BUSINESS ADMINISTRATION:**

**NON-BUSINESS MAJOR (25 Credits)**

**Requirements (19 Credits)**

- ACCT 230 Principles of Accounting I (3)
- ECON 202 Principles of Economics I: Micro (3)
- FINC 340 Financial Management (3)
- MATH 234 Introduction to Probability and Statistics (4)
- MGMT 360 Principles of Management (3)
- MKTG 310 Principles of Marketing (3)

**Restricted Electives (6 Credits)**

Students must choose one course from two of the following course groupings: MGMT 380, 420, or 451; MKTG 311, 421, or 422; FINC 360 or 445.

**B.S. DEGREE IN FINANCE (79-80 Credits)**

**Core Requirements (55-56 Credits)**

Students must complete the courses listed under “Business Core Requirements” and “Related Requirements.”

**Requirements (15 Credits)**

- ECON 320 Money and Banking (3)
- FINC 325 Financial Institutions and Markets (3)
- FINC 360 Principles of Investment (3)
- FINC 441 Advanced Financial Management (3)
- FINC 445 International Financial Management (3)

**Restricted Electives (9 Credits)**

Students may choose nine credits of electives from the following courses. Students may not use more than three credits from FINC 406, FINC 469, and FINC 497 to satisfy this section.

- FINC 352 Principles of Insurance and Risk Management (3)
- FINC 354 Real Estate Finance and Investments (3)
- FINC 406 Small Business Management Consulting (1-2)
- FINC 425 Bank Management (3)
- FINC 446 Financial Decision Making (3)
- FINC 460 Portfolio Analysis and Management (3)
- FINC 461 Fixed Income Security Analysis and Management (3)
- FINC 463 Futures and Options (3)
- FINC 469 Student Internship (2-8)
- FINC 495 Special Topics in Finance (3)
- FINC 497 Problems in Finance (1-3)

**MINOR IN FINANCE: BUSINESS MAJOR (15 Credits)**

**Restricted Electives (15 Credits)**

Students must take fifteen credits in Finance courses above the major requirements for any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

**MINOR IN FINANCE: NON-BUSINESS MAJOR (25 Credits)**

**Requirements (19 Credits)**

- ACCT 230 Principles of Accounting I (3)
- ECON 202 Principles of Economics I: Micro (3)
- FINC 340 Financial Management (3)
- FINC 360 Principles of Investment (3)
- FINC 445 International Financial Management (3)
- MATH 234 Introduction to Probability and Statistics (4)

**Restricted Electives (6 Credits)**

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

**B.S. DEGREE IN INTERNATIONAL BUSINESS (92-93 Credits)**

**Core Requirements (55-56 Credits)**

Students must complete the courses listed under “Business Core Requirements” and “Related Requirements.”

**Requirements (15 Credits)**

- ACCT 420 International Accounting (3)
- ECON 425 International Trade and Finance (3)
FINC 445 International Financial Management (3)
MGMT 458 International Management (3)
MKTG 444 International Marketing (3)

**Restricted Electives (6 Credits)**
Students must take two courses from the following list.
ANTH 110 Introduction to Cultural Anthropology (3)
ANTH 265 Language and Culture (3)
ANTH 270 Human Biological Variation (3)
ECON 304 Intermediate Macroeconomic Theory (3)
ECON 335 Comparative Systems and Economic Development (3)
GEOS 110 Introductory Physical Geography (3)
GEOS 111 Cultures and Regions (3)
POL 160 International Relations (3)
POL 290 Introduction to Topics in Political Science (3)
POL 360 American Foreign Policy (3)
SOC 315 Population (3)

**Electives (16 Credits)**
All students must take two years of a foreign language. All or part of this requirement may be waived due to demonstrated competency.

**MINOR IN INTERNATIONAL BUSINESS: BUSINESS MAJOR (15 Credits)**

**Requirements (15 Credits)**
In addition to the course listed below, students must take six credits in Management courses above the International Business requirements. Courses which satisfy major requirements cannot be used to satisfy minor requirements. Students must also take two courses from ACCT 420, ECON 425, FINC 445, and MKTG 444. Any student who takes MGMT 458 as part of their major must substitute another three credit management course.
MGMT 458 International Management (3)

**MINOR IN INTERNATIONAL BUSINESS: NON-BUSINESS MAJOR (25 Credits)**

**Requirements (19 Credits)**
ACCT 230 Principles of Accounting I (3)
ECON 202 Principles of Economics I: Micro (3)
FINC 340 Financial Management (3)
MATH 234 Introduction to Probability and Statistics (4)
MGMT 360 Principles of Management (3)
MKTG 310 Principles of Marketing (3)

**Restricted Electives (6 Credits)**
Students must take two of the following courses:
FINC 445 International Financial Management (3)
MGMT 458 International Management (3)
MKTG 444 International Marketing (3)

**B.S. DEGREE IN MANAGEMENT (79-80 Credits)**

**Core Requirements (55-56 Credits)**
Students must complete the courses listed under “Business Core Requirements” and “Related Requirements.”

**Requirements (15 Credits)**
MGMT 420 Organizational Theory (3)
MGMT 440 Personnel Management (3)
MGMT 451 Organizational Behavior (3)
MGMT 458 International Management (3)
MGMT 480 Management Science (3)

**Restricted Electives (9 Credits)**
Students must choose nine credits of electives from the following courses. Students may not use more than three credits from MGMT 406, MGMT 469, or MGMT 497 to satisfy this section.
ECON 302 Intermediate Microeconomic Theory (3)
ECON 304 Intermediate Macroeconomic Theory (3)
MGMT 315 Government and Business (3)
MGMT 405 Small Business Management (3)
MGMT 406 Small Business Management Consulting (1-2)
MGMT 415 Industrial Organization and Public Policy (3)
MGMT 416 Labor Economics (3)
MGMT 430 Managerial Economics (3)
MGMT 441 Labor Relations (3)
MGMT 456 Project Management in Business (3)
MGMT 469 Student Internship (2-8)
MGMT 495 Special Topics in Management (3)
MGMT 497 Problems in Management (1-3)

MINOR IN MANAGEMENT: BUSINESS MAJOR (15 Credits)

Restricted Electives (15 Credits)
Students must take fifteen credits in Management courses above the management requirements in any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.

MINOR IN MANAGEMENT: NON-BUSINESS MAJOR (25 Credits)

Requirements (22 Credits)
ACCT 230 Principles of Accounting I (3)
ECON 202 Principles of Economics I: Micro (3)
MATH 234 Introduction to Probability and Statistics (4)
MGMT 360 Principles of Management (3)
MGMT 380 Operations Management (3)
MGMT 405 Small Business Management (3)
OR MGMT 440 Personnel Management (3)
MGMT 420 Organizational Theory (3)
OR MGMT 451 Organizational Behavior (3)

Restricted Electives (3 Credits)
Students must take one three credit Management elective.

B.S. DEGREE IN MARKETING (79-80 Credits)

Core Requirements (55-56 Credits)
Students must complete the courses listed under “Business Core Requirements” and “Related Requirements.”

Requirements (15 Credits)
MKTG 311 Marketing Management (3)
MKTG 330 Personal Selling (3)
MKTG 421 Consumer Behavior (3)
MKTG 422 Marketing Research (3)
MKTG 444 International Marketing (3)

Restricted Electives (9 Credits)
Students must take nine credits in elective courses from the following list. Students may not use more than three credits from MKTG 406, MKTG 469, and MKTG 497 to satisfy this section.
MKTG 315 Industrial Marketing (3)
MKTG 335 Retail Management (3)
MKTG 406 Small Business Management Consulting (1-2)
MKTG 419 Distribution Management (3)
MKTG 423 Marketing Communications (3)
MKTG 441 Business and Society (3)
MKTG 442 Marketing Seminar (3)
MKTG 469 Student Internship (2-8)
MKTG 497 Problems in Marketing (1-3)

MINOR IN MARKETING: BUSINESS MAJOR (15 Credits)

Requirements (15 Credits)
In addition to the courses listed below, students must take six credits in Marketing courses above the marketing requirements in any of the business programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements.
MKTG 311 Marketing Management (3)
MKTG 421 Consumer Behavior (3)
MKTG 422 Marketing Research (3)

MINOR IN MARKETING: NON-BUSINESS MAJOR (21 Credits)

Requirements (15 Credits)
ECON 202 Principles of Economics I: Micro (3)
MKTG 310 Principles of Marketing (3)
MKTG 311 Marketing Management (3)
MKTG 421 Consumer Behavior (3)
MKTG 422 Marketing Research (3)
Restricted Electives (6 Credits)
Students must take six credits of Marketing electives.

CERTIFICATE IN E-BUSINESS (24 Credits)
Requirements (21 Credits)
EBUS 280 Intro to E-Business (3)
EBUS 340 E-Commerce and Enterprise Resource Planning (3)
EBUS 360 Law and Ethics in E-Business (3)
EBUS 410 Web-Based Marketing (3)
EBUS 420 Online Customer Relationship Management (3)
EBUS 430 Electronic Supply Chain Management (3)
EBUS 470 E-Business Project Management (3)

Electives (3 Credits)
Students will choose three one credit electives in E-Business courses.

Chemistry Department
Science Lab 3, (218) 477-2136
Chair: Gary Edvenson
Faculty: Jeffrey Bodwin, Shawn Dunkirk, Craig Jasperse, Richard Lahti, Asoka Marasinghe, Abbas Pezeshk

Minnesota State University Moorhead’s Chemistry Department is on the Approved List of the American Chemical Society (ACS). Less than half of the nation’s chemistry departments meet the rigorous standards set by the ACS Committee on Professional Training for faculty, library resources, laboratory space, equipment, and curriculum. A major strength of the chemistry program is its emphasis on undergraduate research. Five different degrees are available:

- B.S. degree in chemistry (ACS approved);
- B.A. degree in chemistry with emphasis in biological chemistry, chemical physics, computational chemistry, liberal arts chemistry or mathematics;
- B.A. biology/chemistry double major with emphasis in biochemistry and biotechnology;
- B.S. dual cooperative degree in chemistry and chemical engineering;
- B.S. degree in chemistry teaching.

The B.S. degree in chemistry is a rigorous four-year course of study designed for those students who plan graduate programs in chemistry and its related fields, a career in chemical industries, or chemical professions. ACS is an organization of professional chemists that, among other activities, sets standards for chemistry education.

The B.A. degree in chemistry can be earned with emphases in a number of areas such as biological chemistry, chemical physics, computational chemistry, liberal arts chemistry or mathematics. This flexibility allows students to include the related field courses in their chemistry program that best fit their future career, graduate school or professional school needs.

The B.A. degree in chemistry with emphasis in biochemistry and biotechnology is a degree that combines studies in both biology and chemistry. This emphasis is designed to teach advanced laboratory skills in the major areas of biochemistry and biotechnology. It provides a laboratory-rich, research-based experience that emphasizes hands-on learning. It includes the application of techniques used in the study of enzymology, cellular physiology, molecular biology and immunology. Students finishing this program will have a double major in chemistry and biology.

The Department also offers a five-year, B.S. dual degree program in chemistry and chemical engineering in conjunction with the University of Minnesota or the University of North Dakota.

The B.S. degree in chemistry teaching is part of the certification process to teach chemistry in Minnesota high schools. Students completing this major may also be certified to teach middle school science, grades 5-8. In addition to completing the chemistry core curriculum and middle school science coursework, students must also complete courses in professional (teacher) education.

STUDENT LEARNING OUTCOMES
Students are to gain:

- basic knowledge and understanding of the fundamentals of experimental and theoretical chemistry;
- skills in analytical thinking, problem solving and application of scientific methods to experimental data;
- skills in laboratory operations including techniques, instrumentation, experimental design, interpretation and reporting of experimental results;
- the ability to design and conduct chemical research projects;
- written and oral communication skills.
**UPPER LEVEL WRITING REQUIREMENT**
Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

**B.S. DEGREE IN CHEMISTRY (64 Credits)**

**Requirements (47 Credits)**
- Students must earn at least three credits in CHEM 497.
- CHEM 200 General Chemistry I (4)
- CHEM 200L General Chemistry I Laboratory (0)
- CHEM 210 General Chemistry II (4)
- CHEM 210L General Chemistry II Laboratory (0)
- CHEM 300 Inorganic Chemistry I (3)
- CHEM 350 Survey of Organic Chemistry: Part I (3)
- CHEM 355 Organic Chemistry Laboratory I (1)
- CHEM 360 Survey of Organic Chemistry: Part II (3)
- CHEM 365 Organic Chemistry Laboratory II (1)
- CHEM 380 Analytical Chemistry I (4)
- CHEM 380L Chemistry 380 Laboratory (0)
- CHEM 400 Biochemistry I (3)
- CHEM 405 Biochemistry Laboratory I (1)
- CHEM 420 Inorganic Chemistry II (3)
- CHEM 425 Inorganic Chemistry Laboratory (1)
- CHEM 450 Physical Chemistry I (3)
- CHEM 455 Physical Chemistry Laboratory I (1)
- CHEM 460 Physical Chemistry II (3)
- CHEM 465 Physical Chemistry Laboratory II (1)
- CHEM 480 Analytical Chemistry II (4)
- CHEM 497 Undergraduate Research (1-3)
- CHEM 498 Seminar (1)

**Restricted Electives (1 Credit)**
- Students must earn at least one additional upper-division credit (300 or higher) from Chemistry or related fields.

**Related Requirements (16 Credits)**
- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- PHYS 200 General Physics I (4)
- PHYS 201 General Physics II (4)

**B.A. DEGREE IN CHEMISTRY (67-75 Credits)**

**Core Requirements (27 Credits)**
The core is required of all students who major in one of the B.A. in Chemistry emphases: Biological Chemistry, Chemical Physics, Computational Chemistry, Liberal Arts Chemistry, or Mathematical Chemistry.
- CHEM 200 General Chemistry I (4)
- CHEM 210 General Chemistry II (4)
- CHEM 300 Inorganic Chemistry I (3)
- CHEM 350 Survey of Organic Chemistry: Part I (3)
- CHEM 355 Organic Chemistry Laboratory I (1)
- CHEM 360 Survey of Organic Chemistry: Part II (3)
- CHEM 380 Analytical Chemistry I (4)
- CHEM 450 Physical Chemistry I (3)
- CHEM 455 Physical Chemistry Laboratory I (1)
- CHEM 498 Seminar (1)

**Emphasis in Biological Chemistry (71 Credits)**

**Core Requirements (27 Credits)**
- Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

**Requirements (20 Credits)**
- In addition to the listed courses, students must earn eight elective credits in Biology which are at the 300 level or higher.
- BIOL 111 Cell Biology (4)
- BIOL 341 Genetics (4)
- CHEM 400 Biochemistry I (3)
- CHEM 405 Biochemistry Laboratory I (1)
Restricted Electives (4 Credits)
Students must earn at least four upper-division (300 level or higher) credits in Chemistry or related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
OR MATH 234 Introduction to Probability and Statistics (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

EMPHASIS IN CHEMICAL PHYSICS
(67 Credits)
Core Requirements (27 Credits)
Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Requirements (16 Credits)
In addition to the listed courses, students must complete at least two elective courses in Physics which are at the 300 level or higher.
PHYS 305 Experimental Physics I (2)
PHYS 306 Experimental Physics II (2)
PHYS 322 Elementary Modern Physics (3)
PHYS 350 Computational Methods for Physical Science (3)

Restricted Electives (5 Credits)
Students must earn four upper-division (300 level or higher) elective credits in Chemistry. In addition, students must earn one additional upper-division credits from Chemistry, or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

EMPHASIS IN COMPUTATIONAL CHEMISTRY (75 Credits)
Core Requirements (27 Credits)
Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Requirements (20 Credits)
In addition to the listed courses, students must complete at least nine elective credits in CSIS that are at the 300 level or higher.
CHEM 400 Biochemistry I (3)
CSIS 150 Introduction to Computers and Programming I (4)
CSIS 151 Introduction to Computers and Programming II (4)

Restricted Electives (8 Credits)
Students must earn at least eight additional upper-division (300 level or higher) credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
OR MATH 234 Introduction to Probability and Statistics (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

EMPHASIS IN LIBERAL ARTS CHEMISTRY (67 Credits)
Core Requirements (27 Credits)
Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Restricted Electives (20 Credits)
Students must earn four upper-division (300 level and higher) credits in chemistry electives. In addition, students must earn at least sixteen upper-division credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.
Related Requirements (20 Credits)
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
OR MATH 234 Introduction to Probability and Statistics (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

EMPHASIS IN MATHEMATICAL CHEMISTRY (67 Credits)
Core Requirements (27 Credits)
Students must complete the courses listed as “Core Requirements” under the B.A. Degree in Chemistry.

Requirements (10 Credits)
In addition to MATH 323, students must complete six elective credits in mathematics courses that are at the 300 level or higher.
MATH 323 Multi-Variable and Vector Calculus (4)

Restricted Electives (10 Credits)
Students must earn four upper-division (300 level or higher) credits in Chemistry electives. In addition, students must earn at least six additional upper-division credits from Chemistry or the related fields of Biology, Computer Science, Mathematics, or Physics.

Related Requirements (20 Credits)
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

EMPHASIS IN BIOCHEMISTRY AND BIOTECHNOLOGY (81-82 Credits)
Requirements (58 Credits)
BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 341 Genetics (4)
BIOL 350 Microbiology (4)
BIOL 385 Molecular Biology (3)
BIOL 385L Biology 385 Lab (1)
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)
CHEM 360 Survey of Organic Chemistry: Part II (3)
CHEM 365 Organic Chemistry Laboratory II (1)
CHEM 380 Analytical Chemistry I (4)
CHEM 400 Biochemistry I (3)
CHEM 405 Biochemistry Laboratory I (1)
CHEM 410 Biochemistry II (3)
CHEM 415 Biochemistry Laboratory II (1)
BIOL 475 Biotechniques I (5)
OR CHEM 475 Biotechniques I (5)
BIOL 476 Biotechniques II (5)
OR CHEM 476 Biotechniques II (5)

Restricted Electives (7-8 Credits)
Students must select one course from the Physiology area (BIOL 347 or 360) and one course from the Cellular and Molecular area (BIOL 365 or 430).

Related Requirements (16 Credits)
Students must choose a Physics sequence (PHYS 160 and 161 or PHYS 200 and 201) and a Mathematics sequence (MATH 234 and 261 or MATH 261 and 262).
PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)
OR MATH 234 Introduction to Probability and Statistics (4)
AND MATH 261 Calculus I (4)
OR MATH 261 Calculus I (4)
AND MATH 262 Calculus II (4)

B.S. DEGREE IN CHEMISTRY-TEACHING
(101 Credits)

Requirements (30 Credits)
Students must fulfill all teacher licensure requirements which will add 33 credits to the major. Students must earn at least one credit in CHEM 497.

CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
CHEM 300 Inorganic Chemistry I (3)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)
CHEM 380 Analytical Chemistry I (4)
CHEM 400 Biochemistry I (3)
CHEM 440 Secondary Science Teaching Methods (3)
CHEM 450 Physical Chemistry I (3)
CHEM 455 Physical Chemistry Laboratory I (1)
CHEM 497 Undergraduate Research (1-3)

Restricted Electives (8 Credits)
Students will earn 8-10 credits in this area depending on the Physics sequence (PHYS 160-161) or (PHYS 200-201) they choose.

PHYS 160 College Physics I (4)
AND PHYS 161 College Physics II (4)
OR PHYS 200 General Physics I (4)
AND PHYS 201 General Physics II (4)

Related Requirements (30 Credits)

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 305 General Botany (4)
GEOS 115 Physical Geology (4)
GEOS 116 Historical Geology (3)
GEOS 360 Planetary Science (3)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
OR MATH 234 Introduction to Probability and Statistics (4)

MINOR IN CHEMISTRY (22 Credits)

Requirements (12 Credits)

CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
CHEM 350 Survey of Organic Chemistry: Part I (3)
CHEM 355 Organic Chemistry Laboratory I (1)

Electives (10 Credits)
Students must earn ten credits in Chemistry electives at the 200 level or above.

See Languages and Cultures

Dean of Arts and Humanities
Bridges 250

Two years of college Latin are offered when feasible. The second year will be scheduled as a regular class only if the prospective enrollment justifies it; otherwise, it may be elected solely on a tutorial basis, by arrangement with the instructor.

Besides work in the Latin language, courses in related subjects—especially art, archaeology, Greek and Latin literature in translation, ancient history, and classical philosophy—are available to interested students. Upper-class courses in Latin, and courses in Greek as well, may be taken by Minnesota State University Moorhead students at Concordia College and at North Dakota State University (Cardinal Muench Seminary) through the Tri-College University.
Communications

See Communication Studies, Film Studies, and Theatre Arts; Mass Communications; Speech/Language/Hearing Sciences; or Technology Departments for degree programs.

Communication Studies, Film Studies, and Theatre Arts Department
Roland Dille Center for the Arts 116, (218) 477-2126
Chair: Craig Ellingson
Faculty: Tom Brandau, Harold “Rusty” Casselton, Elizabeth Evert, Denise Gorsline, Virginia Gregg, Theresa Hest, Kristin Larson, David Tschiida, David Wheeler

The Communication Studies major is a broad-based, flexible major that includes theoretical and applied courses that will develop a student’s competence as a communicator. Our program of study combines the traditions of research, theory, and practice while addressing issues of technology, diversity, popular culture, and ethics in all of our courses. Graduates work in a variety of professions, including human resources, sales, and training.

The faculty and students of the Communication Studies, Film Studies, and Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. In each of the three areas of the department – Communication Studies, Film Studies, and Theatre Arts – we provide a challenging, contemporary, relevant curriculum within the context of the Liberal Arts that prepares our graduates to become contributing and ethical citizens in a diverse, global community. We promote creativity, critical thinking, and lifelong discovery through courses that integrate theory and history with practice and application.

STUDENT LEARNING OUTCOMES

Students who graduate with a degree from Minnesota State University Moorhead with a major in Communication Studies should meet the following objectives:

- Students will demonstrate foundational knowledge of communication research methods and the role of research in the creation of knowledge.
- Students will be able to recognize, diagnose, and respond to communication situations using appropriate communication theories and concepts.
- Students will create effective communication messages in a variety of contexts and situations.
- Students will effectively present communication messages in a variety of contexts and situations.
- Students will analyze communication messages in a variety of cultures, contexts and situations.
- Students will demonstrate the knowledge to successfully manage group environments and/or interpersonal relationships.

UPPER LEVEL WRITING REQUIREMENT

Majors in Communication Studies will meet the upper level writing requirement through CMST 310 – Rhetorical Theory and Criticism.

B.A. DEGREE IN COMMUNICATION STUDIES (49 Credits)

Requirements (21 Credits)

CMST 100 Speech Communication (3)
OR CMST 105 Beginning Oral Interpretation (3)
CMST 110 Introduction to Communication Studies (3)
CMST 210 Introduction to Communication Theory (3)
CMST 215 Communication Research Methods (3)
FILM 270 Introduction to Telecommunications and Film (3)
OR CMST 313 Communication, Technology, and Culture (3)
CMST 310 Rhetorical Theory and Criticism (3)
CMST 496 Senior Seminar (3)

Restricted Electives (19 Credits)

Students must choose twelve credits from courses with a Theory focus (CMST 300, 308, 311, 315, 401, 410, or 414) and seven credits from courses with a Performance focus (Practica, 211, 301, 309, 361, 405, 406, 415, or 469). One of the performance focus courses must be selected from CMST 211, CMST 301, CMST 309, CMST 415, or a department-approved substitute.

CMST 101A Practicum (1)
CMST 101B Practicum (1)
CMST 101C Practicum (1)
CMST 101D Practicum (1)
CMST 102 Practicum (1)
CMST 202 Practicum (1)
CMST 211 Argumentation and Debate (3)
CMST 300 Intercultural Communication (3)
CMST 301 Business and Professional Communication (3)
CMST 302 Practicum (1)
CMST 308 Leadership and Group Communication (3)
CMST 309 Training and Development (3)
CMST 311 Principles of Persuasion (3)
CMST 315 Interpersonal Communication (3)
CMST 361 Advanced Forensics (1)
CMST 401 Organizational Communication (3)
CMST 402 Practicum (1)
CMST 405 Research Practicum (1)
CMST 406 Academic Service-Learning Practicum (1)
CMST 410 The Rhetoric of Popular Culture (3)
CMST 414 Health Communication (3)
CMST 415 Teaching Methods: Communication Studies (3)
CMST 469 Internship (3-12)

Related Requirements (3 Credits)
Students must select one course from the following:
ACCT 321 Employment Law (3)
CSIS 103 Computer Concepts and Applications (3)
MC 220 Desktop Publishing (3)
MC 303 Advertising Principles (3)
MC 304 Public Relations Principles (3)
MC 423 Marketing Communications (3)
MGMT 360 Principles of Management (3)
PHIL 101 Introduction to Western Philosophy (3)
POL 340 Public Administration (3)
PSY 120 Social Behavior (3)
PSY 323 Industrial/Organizational (3)
SOC 412 Sociology of Complex Organizations (3)
WS 247 Women’s Studies (3)

Electives (6 Credits)
Elective choices must be CMST courses at the 300 level or higher.

MINOR IN COMMUNICATION STUDIES
(15 Credits)
Requirements (9 Credits)
CMST 100 Speech Communication (3)
CMST 210 Introduction to Communication Theory (3)
CMST 215 Communication Research Methods (3)
OR CMST 310 Rhetorical Theory and Criticism (3)
OR CMST 410 The Rhetoric of Popular Culture (3)

Electives (6 Credits)
Students must take six credits in communication studies electives which are at the 300 level or above.
CMST 300 Intercultural Communication (3)
CMST 301 Business and Professional Communication (3)
CMST 308 Leadership and Group Communication (3)
CMST 309 Training and Development (3)
CMST 310 Rhetorical Theory and Criticism (3)
CMST 311 Principles of Persuasion (3)
CMST 315 Interpersonal Communication (3)
CMST 390 Topics in Communication (1-3)
CMST 401 Organizational Communication (3)
CMST 410 The Rhetoric of Popular Culture (3)
CMST 414 Health Communication (3)
CMST 415 Teaching Methods: Communication Studies (3)
CMST 416 Special Projects in Speech Communication (1-3)
CMST 490 Topics in Communication (1-3)

Computer Science and Information Systems Department
Bridges 160, (218) 477-2299
Chair: Daniel Brekke
Faculty: AbdelFatah (Abdu) Bashir, Yurii Boreisha, Andrew Chen, Rhonda Ficek, John C. Gaffrey, Michael Haugrud, Richard Walker

The Computer Science and Information Systems Department (CSIS) offers programs of study in two areas: Computer Science and Computer Information Systems. Programs of study in Computer Science are intended for students planning to work in the high technology computer industry, pursue graduate work in computer science, or teach computer science at the elementary, secondary or post-secondary level. Programs of study in Computer Information Systems are intended for students planning to work in applied areas that utilize computers as application tools.

STUDENT LEARNING OUTCOMES
Students will demonstrate:

- writing skills needed to communicate appropriately in a highly technical area: good grammar, spelling and punctuation; logical organization of ideas in a document; good presentation of ideas in a document;
- oral skills needed to communicate appropriately in: logical organization of an oral presentation; good delivery of an oral presentation; appropriate use of visual aids in an oral presentation;
- understanding of the legal, ethical and social issues in the computing discipline;
- competence in all phases of the Software Development Life Cycle- Analysis, Design, Coding, Testing, Maintenance, and Ongoing documentation for all the above phases;
- understanding of algorithm analysis, design and implementation techniques;
- understanding of data structures theory;
- understanding of operating systems theory;
- understanding of language translation theory;
- understanding of system and software engineering theory;
- understanding of computer architecture theory.

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

B.S. DEGREE IN COMPUTER SCIENCE
(85-88 Credits)

Requirements (37 Credits)
CSIS 150 Introduction to Computers and Programming I (4)
CSIS 151 Introduction to Computers and Programming II (4)
CSIS 220 Digital Logic and Lab (4)
CSIS 320 Architecture (3)
CSIS 340 Software Engineering (4)
CSIS 349 Networks and Data Communications (3)
CSIS 352 Advanced Concepts in Programming (3)
CSIS 430 Operating Systems (4)
CSIS 435 Compilers (4)
CSIS 450 Programming Languages (3)
CSIS 485 Senior Seminar (1)

Restricted Electives (15 Credits)
Students must choose fifteen elective credits from the listed courses. At least nine of the fifteen elective credits must be at or above the 300 level, excluding CSIS 469 or CSIS 497. Students may apply no more than four credits of CSIS 290 to the major. Students may apply no more than three credits of CSIS 260 and 469 to the major.
CSIS 251 Assembly Language Programming (3)
CSIS 257 Object-Oriented Software Development (3)
CSIS 260 Current Programming Languages (3)
CSIS 290 Special Topics (1-3)
CSIS 330 Analysis and Design of Algorithms (3)
CSIS 335 Graphical User Interface Programming (3)
CSIS 345 Analysis and Design of Information Systems (3)
CSIS 355 Systems Software (3)
CSIS 358 Introduction to Parallel Computing (3)
CSIS 360 UNIX Programming and Development Tools (3)
CSIS 370 Social, Ethical, and Professional Issues in Computing (2)
CSIS 405 E-Commerce Technology (3)
CSIS 440 Computer Networks Software Concepts (3)
CSIS 443 Artificial Intelligence (3)
CSIS 444 Database Concepts, Design and Implementation (4)
CSIS 445 Graphics (3)
CSIS 446 Decision Support Systems (3)
CSIS 469 Internship (1-6)
CSIS 490 Topics in Computer Science (1-3)
CSIS 497 Undergraduate Research (1-3)

**Related Requirements (33-36 Credits)**
In addition to the courses listed, students must complete one of the following sequences: (BIOL 111 and either BIOL 115 or 305 or BIOL 341) or (CHEM 200 and 210), or (PHYS 160-161) or (PHYS 200-201). And one course from scientific and/or quantitative areas. Scientific courses may be chosen from Astronomy, Biology, Chemistry, CSIS 130, and any CSIS course at or above the 200 level, Engineering, Geosciences, Technology, Mathematics at 300 level or above, or Physics at 200 level or above. Quantitative courses may be chosen from ACCT 230, ACCT 231, ACCT 330, ACCT 350, ACCT 331, ACCT 350, PHIL 110, PHIL 340, ECON 202, ECON 204, ECON 302, ECON 304, ECON 320, or MGMT 480.

CMST 100 Speech Communication (3)
ENGL 387 Technical Report Writing (4)
MATH 225 Discrete Mathematics (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 335 Intermediate Probability and Statistics I (3)

**MINOR IN COMPUTER SCIENCE (24 Credits)**

**Requirements (11 Credits)**
- CSIS 150 Introduction to Computers and Programming I (4)
- CSIS 151 Introduction to Computers and Programming II (4)
- CSIS 352 Advanced Concepts in Programming (3)

**Electives (13 Credits)**
Thirteen credits of electives to be chosen from the list of required or elective courses for the Computer Science major.

**B.S. DEGREE IN COMPUTER INFORMATION SYSTEMS (75 Credits)**

**Requirements (34 Credits)**
- CSIS 150 Introduction to Computers and Programming I (4)
- CSIS 151 Introduction to Computers and Programming II (4)
- CSIS 240 Introduction to Information Systems and Internet Technologies (3)
- CSIS 250 File Organization, Processing, Maintenance and Reporting (4)
- CSIS 345 Analysis and Design of Information Systems (3)
- CSIS 346 Design, Implementation and Support of Information Systems (3)
- CSIS 349 Networks and Data Communications (3)
- CSIS 405 E-Commerce Technology (3)
- CSIS 444 Database Concepts, Design and Implementation (4)
- CSIS 446 Decision Support Systems (3)

**Related Requirements (32 Credits)**
- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- CMST 100 Speech Communication (3)
- ENGL 387 Technical Report Writing (4)
- FINC 340 Financial Management (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- MGMT 360 Principles of Management (3)
- MGMT 380 Operations Management (3)
- MGMT 480 Management Science (3)

**Electives (9 Credits)**
Students may apply no more than three credits of CSIS 260 and CSIS 469 to the major, and four credits of CSIS 290 to the major.
- CSIS 104 Spreadsheet and Database Applications (3)
- 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 335 Graphical User Interface Programming (3)
- CSIS 340 Software Engineering (4)
- CSIS 352 Advanced Concepts in Programming (3)
- CSIS 355 Systems Software (3)
- CSIS 360 UNIX Programming and Development Tools (3)
- CSIS 370 Social, Ethical, and Professional Issues in Computing (2)
- CSIS 430 Operating Systems (4)
- CSIS 435 Compilers (4)
MINOR IN COMPUTER INFORMATION SYSTEMS (30 Credits)

Requirements (18 Credits)
- CSIS 150 Introduction to Computers and Programming I (4)
- CSIS 151 Introduction to Computers and Programming II (4)
- CSIS 240 Introduction to Information Systems and Internet Technologies (3)
- CSIS 250 File Organization, Processing, Maintenance and Reporting (4)
- CSIS 345 Analysis and Design of Information Systems (3)

Related Requirements (6 Credits)
- ACCT 230 Principles of Accounting I (3)
- MGMT 360 Principles of Management (3)

Electives (6 Credits)
Six credits of electives to be chosen from the list of required or elective courses for the Computer Information System major.

Construction Management (CM) is a professional program that specifically trains graduates to manage, coordinate, and supervise the construction process from conceptual development through final construction on a timely and economical basis. Throughout the program, students learn the responsibilities of coordinating and managing people, materials and equipment, budgets, schedules, and contracts, as well as the safety of employees and the public.

Construction managers hold a variety of job titles, such as project manager, project engineer, estimator, scheduler, or construction manager. On large projects, construction managers may work for a general contractor – the firm with overall responsibility of all construction management activities. They oversee the completion of all construction processes in accordance with the engineer’s or architect’s drawings and specifications. In addition, they arrange for subcontractors to perform specialized craftwork or other specified construction work.

The Construction Management (CM) program at MSUM is accredited by the American Council of Construction Education (ACCE), which establishes standards and criteria for excellence in construction education. The CM program at MSUM is the only Construction Management program in Minnesota accredited by ACCE.

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

STUDENT LEARNING OUTCOMES
Assessment provisions by the American Council of Construction Education require evaluation of student outcomes.

- **Communication Skills** - The student will be able to apply oral, written, graphic, and listening skills, communication.
- **Technical Skills** - The student will be able to implement various forms of technology, inclusive utilizing survey, computer, and other current equipment applications.
- **Design Theory, Analysis, and Problem Solving Skills** - The student will be able to utilize design theory and analysis applied to problem solving mathematical, physical, and construction sciences of nature affecting construction practice.
- **Management/Marketing Concepts and Skills** - The student will be able to apply the principles and accounting, economics to the construction Code of Conduct into business practice.
- **Construction Materials and Methods** - The student will be able to understand the science of materials and methods of construction as they apply to the 16 Construction Specifications Institute (CSI) Divisions designated for the construction industry.
- **Estimating, Budgeting, and Cost Control** - The student will be able to perform quantity take-offs,
productivity and pricing analysis for estimating, construction job acquisition and completion.

- **Interpretation of Construction Documents and Cost Accounting** - The student will be able to analyze construction documents, codes, identify site conditions, apply value engineering, and develop detailed project proposals and documentation.

- **Schedule and Control Techniques** - The student will be able to prepare a complete project schedule, develop a procurement time table, sequence of activities and time duration in order to establish a project plan showing the logical monitor progress and update project schedules.

- **Construction Safety** - The student will be able to identify and execute construction safety standards including the ability to interpret the OSHA procedures on the job site, and perform hazard identification and execute construction safety standards.

- **Project Administration** - The student will be able to identify and execute construction safety standards, establish safety and health material and process analysis.

**UPPER LEVEL WRITING REQUIREMENT**

Students who complete all requirements, as indicated for the degree, will have met the Construction Management program’s approved upper level writing requirement. See faculty advisor for specific details.

**Professional Growth Graduation Requirement**

Students will be required to fulfill the professional growth portfolio requirements throughout their sophomore, junior, and senior years. The requirements are outlined in the course syllabus for CM 205 – Professional Growth Seminar, for which students must enroll in either their sophomore or junior year. The materials assembled by the student over a two-year period for the professional growth portfolio will be evaluated during their last semester at MSUM as part of CM 496 – Capstone Experience. Any student failing to meet the professional growth portfolio requirement will receive an incomplete for CM 496. The student will be expected to satisfactorily complete all portfolio requirements prior to a grade change being recorded.

**B.S. DEGREE IN CONSTRUCTION MANAGEMENT (93 Credits)**

**Requirements (69 Credits)**

All majors must earn three credits from either CM 469 or CM 485.

- ACCT 230 Principles of Accounting I (3)
- ACCT 304 Legal Environment of Business (3)
- CM 216 Construction Graphics (3)
- CM 220 Commercial Building Methods and Materials (3)
- CM 325 Heavy/Highway Construction Materials (3)
- CM 326 Heavy/Highway Construction Materials Lab (1)
- CM 330 Estimating I: Quantity Survey (3)
- CM 340 Planning and Scheduling (3)
- CM 350 Structural Design and Analysis (3)
- CM 354 Mechanical/Electrical Systems (3)
- CM 425 Equipment Productivity and Analysis (3)
- CM 430 Estimating II- Pricing and Productivity (3)
- CM 440 Project Control (3)
- CM 455 Heavy/Highway Estimating and Work Plan Analysis (3)
- CM 460 Project Administration (3)
- CM 465 Construction Safety (2)
- CM 470 Construction Law (3)
- CM 469 Internship (2-12)
- OR CM 485 Computer Integrated Construction (3)
- ENG 200 Surveying (3-4)
- ENG 243 Engineering Mechanics I - Statics (3)
- OR TECH 223 Statics for Technologists (3)
- MGMT 360 Principles of Management (3)
- TECH 385 Process Leadership (3)
- TECH 394 Computer Applications for Engineers and Technologists (3)

**Restricted Electives (3 Credits)**

Select three credits from the following courses:

- MGMT 380 Operations Management (3)
- MGMT 405 Small Business Management (3)
- MGMT 420 Organizational Theory (3)
- MGMT 440 Personnel Management (3)
MGMT 451 Organizational Behavior (3)
TECH 380 Methods Improvement (3)
TECH 428 Project Management (3)
TECH 482 Quality Planning and Implementation (3)

**Related Requirements (21 Credits)**
In addition to the courses listed below, students must earn four credits from CHEM 150 and 155 or PHYS 161, or GEOL 115 and GEOL 115L.
CMST 100 Speech Communication (3)
CSIS 103 Computer Concepts and Applications (3)
ECON 202 Principles of Economics I: Micro (3)
MATH 142 Pre-Calculus (4)
PHYS 160 College Physics I (4)

**MINOR IN CONSTRUCTION MANAGEMENT (21 Credits)**
**Requirements (21 Credits)**
In addition to the listed courses, students must earn at least six credits in Construction Management electives. Students must choose their electives in consultation with their faculty advisor.
CM 220 Commercial Building Methods and Materials (3)
CM 330 Estimating I: Quantity Survey (3)
CM 340 Planning and Scheduling (3)
CM 460 Project Administration (3)
ENG 200 Surveying (3-4)

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**Sociology and Criminal Justice Department**
Lommen 102, (218) 477-2045
Chair: Joel Powell-Dahlquist
Program Coordinator: Denis Stead

The Criminal Justice faculty are listed with the Sociology and Criminal Justice Department. Criminal Justice majors examine the criminal justice system and its components within the framework of one or more of the social sciences. The major provides a broad analysis of Criminal Justice participants, of the criminal law, and some of the many ways law is related to the larger society.

**LAW ENFORCEMENT LICENSURE**
Students who wish Minnesota licensure in law enforcement must take additional classes that address the Licensing Board’s objectives. These courses are listed in the introduction to the “Core Requirements” of the major.

**STUDENT LEARNING OUTCOMES**
Students are expected to exhibit an:
- understanding of the content of the discipline of criminal justice;
- ability to apply the concepts of criminal justice to social issues;
- ability to think critically;
- understanding of social research, including the ability to apply research findings to criminal justice issues;
- ability to organize ideas, evidence, information and argument;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning criminal justice issues.

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

**B.A. DEGREE IN CRIMINAL JUSTICE**
(46 Credits)

**Core Requirements (19 Credits)**
The following courses constitute the Core Requirements for the Criminal Justice major. In addition to the Core Requirements, all students must complete (1) a nine credit concentration in Political Science, Psychology, Social Work or Sociology and (2) a related research tool requirement. Students who wish to seek Minnesota licensure in law enforcement must take SOC 311, PSY 261, PSY 463, and CJ 430 and secure First Responder certification.
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 eight must be taken at the upper division (300 or 400) level.

- POL 230 Introduction to the Law (3)
- POL 330 The Judicial System (3)
- POL 332 Constitutional Law I: Institutional Powers and Constraints (3)
- POL 333 Constitutional Law II: Civil Rights and Liberties (3)
- PSY 261 Personality (3)
- PSY 463 Abnormal Psychology (3)
- SOC 220 Social Deviance (3)
- SOC 303 Punishment and Prisons (3)
- SOC 304 Community Corrections (3)
- SOC 307 Sociology of Courts (3)
- SOC 311 Sociology of Law Enforcement (3)
- SW 402 Child Welfare Services (3)
- SW 411 Chemical Dependency (3)

**Related Requirements (6 Credits)**

At least six credits must be earned in research methods. These courses should be taken in the Junior year and, in most instances, will come from the Social Science Concentration. See the departmental advisor for details.

**Recommended (0 Credits)**

An internship is not required for the major. Internships are important as networking opportunities for those seeking employment. These are usually completed in the Junior or Senior year and may be taken in any academic term. Most students intern during the summer. Internship credits do not apply toward the Criminal Justice major requirement total of 46 credits.

**SOCIAL SCIENCE CONCENTRATION IN POLITICAL SCIENCE (46 Credits)**

**Requirements (9 Credits)**

Students must complete the following courses and will also need to complete the courses listed under “Core Requirements”, “Restricted Electives”, and “Related Requirements” for the B.A. Degree in Criminal Justice.

- POL 120 American National Government and Politics (3)
- POL 230 Introduction to the Law (3)
- POL 330 The Judicial System (3)

**SOCIAL SCIENCE CONCENTRATION IN PSYCHOLOGY (46 Credits)**

**Requirements (9 Credits)**

Students must complete the following courses and will also need to complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” for the B.A. Degree in Criminal Justice.

- PSY 113 General Psychology (3)
- PSY 120 Social Behavior (3)
- PSY 261 Personality (3)

**SOCIAL SCIENCE CONCENTRATION IN SOCIAL WORK (46 Credits)**

**Requirements (9 Credits)**

Students must complete the following courses and will also need to complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Criminal Justice.

- SW 250 Introduction to Social Welfare and Social Work (3)

**SOCIAL SCIENCE CONCENTRATION IN SOCIOLOGY (46 Credits)**

**Requirements (9 Credits)**

Students must complete the following courses and will also need to complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Criminal Justice.

- SOC 110 Introduction to Sociology (3)
- SOC 230 Social Psychology (3)
- SOC 302 Social Theory (3)

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See Elementary and Early Childhood Education

See Anthropology and Earth Science
The major and minor programs in economics offer students a set of required and elective courses designed to develop students’ abilities for analyzing complex choices in a rapidly changing world. The Economics Department offers students two emphases within the major in economics, a traditional liberal arts program and business economics. Both prepare students for careers in banking, private business, education and government.

STUDENT LEARNING OUTCOMES
Students should be able to:
- exhibit knowledge of basic economics.
- communicate effectively in writing and speech.
- possess basic quantitative skills.
- apply analytical skills within the field of economics using theoretical, communication and quantitative tools acquired at the university.

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

B.A. DEGREE IN ECONOMICS (62 Credits)
Requirements (21 Credits)
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
ECON 300 Global Economic Issues (3)
ECON 304 Intermediate Macroeconomic Theory (3)
ECON 370 Quantitative Economic Analysis (3)
ECON 498 Economics Seminar (3)

Related Requirements (26 Credits)
In addition to the listed courses, students must also 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 Fundamentals of Applied Mathematics (3)
MATH 234 Introduction to Probability and Statistics (4)

Electives (15 Credits)
Fifteen additional elective credits in Economics courses are required.

EMPHASIS IN BUSINESS ECONOMICS
(74 Credits)
Requirements (27 Credits)
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
ECON 300 Global Economic Issues (3)
ECON 304 Intermediate Macroeconomic Theory (3)
ECON 320 Money and Banking (3)
ECON 370 Quantitative Economic Analysis (3)
ECON 498 Economics Seminar (3)
ECON 382 Intermediate Microeconomic Theory (3)
OR ECON 430 Managerial Economics (3)
OR ECON 430 Managerial Economics (3)
ECON 315 Government and Business (3)
OR ECON 415 Industrial Organization and Public Policy (3)
Related Requirements (38 Credits)
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 and Applications (3)
ENGL 387 Technical Report Writing (4)
FINC 340 Financial Management (3)
MATH 229 Fundamentals of Applied Mathematics (3)
MATH 234 Introduction to Probability and Statistics (4)
MGMT 360 Principles of Management (3)
MGMT 370 Management Information Systems (3)
MKTG 310 Principles of Marketing (3)

Electives (9 Credits)
Students must complete nine elective credits in Economics.

MINOR IN ECONOMICS (21 Credits)

Requirements (12 Credits)
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
ECON 300 Global Economic Issues (3)
ECON 302 Intermediate Microeconomic Theory (3)
OR ECON 304 Intermediate Macroeconomic Theory (3)

Electives (9 Credits)
Nine approved credits in Economics courses.

Elementary and Early Childhood Education Department
Lommen 214, (218) 477-2216
Chair: Peggy Rittenhouse
Faculty: Beth Anderson, Solveig Bartz, John Benson, Layna Cole, Karen Danbom, Erin Gillett, Ok-Hee Lee, Ruth Newton, Doris Walker-Dalhouse

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

AREAS OF STUDY
Early Childhood Education, Elementary Education, and Graduate Education in Reading. Descriptions of the graduate programs and courses may be requested from the Office of Graduate Studies.

Elementary and Early Childhood Admissions Requirements
To be admitted to the Elementary and Early Childhood Department (EECE), students shall complete the following requirements:
• Admission to Teacher Education (see Teacher Education requirements);
• Completion of 45 semester credits;
• GPA minimum of 2.75 overall and GPA of 2.25 in liberal arts;
• Verification from supervisor of experience with children/adolescents in a teaching/learning setting;
• Demonstrate ability to communicate effectively using written English. Students should consult with the department chair or advisor as there are a variety of ways in which this can be documented.
• SARTE Application Letter
• SARTE Dispositions Self-assessment

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

Completion of the Pre-Professional Skills Test (PPST) is required before students can enroll in 300 and 400 level courses with the education prefix of ED, EECE, or SPED. Passing the PPST is mandatory before students will receive Minnesota Licensure. Students must also pass the appropriate PRAXIS II tests before they may receive Minnesota licensure. Students should consult with the department chair or their advisors about this.

Major in Elementary Education (includes Professional Fourth Year – PFY)
The Elementary and Early Childhood Education Department offers an elementary teacher education preparation program which culminates in the Professional Fourth Year or PFY.

The Professional Fourth Year is a two-semester sequential program integrating theory, methods, practicums, and student teaching. The goal of this program is to give each student the best possible background in teacher preparation and to develop competent beginning elementary teachers. Students have the option of starting Fall or Spring. Students must apply for admission into teacher education and again into the PFY program. Notices to submit application for PFY will be posted in Lommen Hall and announced in classes.
Continued adherence to the EECE admissions requirements, including an overall GPA of 2.75, is mandatory for acceptance into and retention in PFY. A 2.75 GPA is required to enroll in any 300/400 level education course. Only grades of “C” or higher are accepted in the elementary education major course work. Repeating any PFY course requires the approval of the department chair.

**Major in Early Childhood Education**

The Early Childhood major prepares students to teach in inclusionary programs serving children from infancy to 8 years old. These programs include childcare, Head Start, and Early Childhood Family Education, as well as public school kindergarten and first, second, and third grade classrooms. The Early Childhood major emphasizes collaboration with parents and other professional agencies that serve families with young children. This major qualifies a student to apply for a Minnesota teaching license in Early Childhood Education.

Overall adherence to the EECE admissions requirements, including an overall GPA of 2.75 is expected, and a 2.75 GPA is required to enroll in any 300/400 level education course.

**STUDENT LEARNING OUTCOMES**

The following performance outcomes are based on the Minnesota State Board of Teaching (BOT) Standards and are aligned with the conceptual framework for the education unit. MSUM teacher candidates are becoming professionals who are knowledgeable, reflective, humanistic and creative who will:

- apply liberal studies/content knowledge;
- understand student/child development and learning;
- demonstrate multicultural, gender-fair, and disability sensitive values;
- employ appropriate group and individual instructional strategies;
- establish and maintain a productive learning environment;
- effectively use communication and interpersonal skills;
- design an organized, effective and appropriate curriculum;
- use appropriate group and individual assessment strategies;
- engage in life-long learning;
- demonstrate professionalism, ethical behavior, and leadership;
- use technology in support of classroom instruction.

**UPPER LEVEL WRITING REQUIREMENT**

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. This requirement is met by completing EECE 441.

**B.S. DEGREE IN ELEMENTARY EDUCATION (102-118 Credits)**

**Core Requirements (18 Credits)**

All students in Elementary Education must complete this Teacher Licensure core and complete a specialty area in Communication Arts and Literature, Mathematics, Science, Social Studies, World Language and Culture: Spanish, or Pre-Primary Education.

- ED 205 Introduction to Education and Technology (2)
- ED 205E Early Field Experience (1)
- ED 294 Educational Psychology (3)
- ED 310 Social Foundations of Education (3)
- EECE 230 Child Development for Teachers (3)
- EECE 291 Foundations of Literacy (3)
- SPED 320 Educational Services for Individuals with Exceptionalities (3)

**Requirements (48 Credits)**

Students must take at least one credit of EECE 467F and one credit of EECE 367J.

- ART 350 Methods and Materials: Art for the Elementary Classroom (3)
- ED 443E Classroom Management/Consultation (3)
- EECE 341 Reading and Language Arts I (3)
- EECE 367J Intermediate Practicum/Elementary Teaching (1-4)
- EECE 388 Classroom Assessment (3)
- EECE 441 Children’s Literature: Content and Methods (4)
- EECE 467F Practicum/Elementary Teaching (1-4)
- EECE 474 Methods in Teaching Elementary Science and Environmental Education (3)
- EECE 475 Reading and Language Arts II (3)
- EECE 476 Methods in Teaching Elementary Social Studies (3)
- EECE 481E Student Teaching: Elementary (10)
- HLTH 311 Health in the Elementary School (3)
- MATH 406 Mathematics in the Elementary School (3)
- MUS 319 Music for Classroom Teachers (3)
- SPED 429 Classroom Modifications/Adaptations (2)

**Related Requirements (21 Credits)**

- AMCS 233 Education and Multicultural America (3)
- BIOL 170 Exploring Biology (3)
- CMST 100 Speech Communication (3)
GEOS 170 Earth Science Today (3)
MATH 303 Foundations of Number Systems (3)
MATH 304 Informal Geometry (3)
PSCI 170 Physical Science I (3)

SPECIALTY AREA IN COMMUNICATION ARTS AND LITERATURE (102-103 Credits)

Requirements (12-13 Credits)
The Communication Arts and Literature Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education. Students must choose one course from a literature grouping of ENGL 234, 280, or 286; students must choose one course from a composition grouping of ENGL 286, 288, or 394; and students must choose one course from a language grouping of ENGL 365 or 493.

OR ENGL 280 World Literature: East and West (3) OR ENGL 372 Survey of American Literature II (4)
AND ENGL 286 Practical Writing (3)
OR ENGL 288 Introduction to Creative Writing (3) OR ENGL 394 Advanced Composition (3)
AND ENGL 365 Language and Learning (3)
OR ENGL 493 Grammars of English (3)
ENGL 494 Teaching English in Middle/Junior High (3)

Electives (3 Credits)
In addition to the courses listed as “Requirements”, students must take at least one course chosen from literature, composition, or language. ENGL 101 and 102 may not be used to satisfy this elective.

SPECIALTY AREA IN MATHEMATICS (102-104 Credits)

Requirements (15-17 Credits)
The Mathematics Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education. Students must take one course from a choice of MATH 229 or 261, and one course from a choice of MATH 236 or 335. Students who have a strong background in algebra may pursue exemption from MATH 127 by departmental exam. Please check with the Chairperson of the Mathematics department for details.

MATH 105 Contemporary Mathematics (3)
MATH 127 College Algebra (3)
MATH 316 Teaching Mathematics in the Middle Grades (3)
MATH 229 Fundamentals of Applied Mathematics (3)
OR MATH 261 Calculus I (4)
AND MATH 236 Applied Statistics (4)
OR MATH 234 Introduction to Probability and Statistics (4)
OR MATH 335 Intermediate Probability and Statistics I (3)

SPECIALTY AREA IN PRE-PRIMARY EDUCATION (102 Credits)

Requirements (15 Credits)
The Pre-Primary Education Specialty Area is intended for students who seek licensure in Pre-Kindergarten through Grade Six. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education.

EECE 234 Play and Development (3)
EECE 235 Introduction to Early Childhood Education (2)
EECE 333 Discovery Learning (3)
EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 435 Parent-Professional Relations (3)
EECE 467K Practicum: Pre-Primary (1-4)

SPECIALTY AREA IN SCIENCE (104 Credits)

Requirements (17 Credits)
The Science Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under Core Requirements, Requirements, and Related Requirements for the B.S. Degree in Elementary Education. In addition to the courses listed below, students must choose one of the following combination of courses:

CHEM 110/200L, CHEM 200/200L or PHYS 160/160L.
BIOL 111 Cell Biology (4)
BIOL 111L Biology 111 Lab (0)
BIOL 115 Organismal Biology (4)
BIOL 115L Organismal Biology Laboratory (0)
GEOS 115 Physical Geology (4)
GEOS 115L Physical Geology Lab (0)
BIOL 442 Middle School Science Teaching Methods (1)
   OR CHEM 442 Middle School Science Methods (1)
   OR PHYS 442 Middle School Science Methods (1)

SPECIALTY AREA IN SOCIAL STUDIES
(103-104 Credits)

Requirements (16-17 Credits)
The Social Studies Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education.
ECON 100 The American Economy (3)
GEOS 111 Cultures and Regions (3)
HIST 121 History of the United States to 1877 (4)
P OL 120 American National Government and Politics (3)
HIST 122 History of the United States Since 1877 (4)
   OR BIOL 103 Humanity and the Ecosystem (3)

SPECIALTY AREA IN WORLD LANGUAGE AND CULTURE: SPANISH (118 Credits)

Requirements (31 Credits)
The World Language and Culture Specialty Area in Spanish is intended for students who seek licensure in Kindergarten through Grade 8. Students in this Specialty Area must also complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” for the B.S. Degree in Elementary Education. Students who wish to add this specialty to an Elementary license must complete at least a minor, and preferably a major in Spanish, and demonstrate oral proficiency in the language at the Intermediate High level on the ACTL scale. Students who are interested in this area should consult with the Education Advisor in the Department of Languages.

B.S. DEGREE IN EARLY CHILDHOOD EDUCATION (95 Credits)

Core Requirements (18 Credits)
All students in Early Childhood Education must complete this teacher licensure core as well as courses listed under “Requirements” and “Related Requirements.”
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
EECE 230 Child Development for Teachers (3)
EECE 291 Foundations of Literacy (3)

Requirements (62 Credits)
Students must earn one credit in each of the following courses: EECE 367J, 467I, and 467K. Additionally, students must earn at least ten credits in EECE 481C.
ART 350 Methods and Materials: Art for the Elementary Classroom (3)
ED 443E Classroom Management/Consultation (3)
EECE 234 Play and Development (3)
EECE 280 Introduction to Early Childhood Education (2)
EECE 333 Discovery Learning (3)
EECE 341 Reading and Language Arts I (3)
EECE 367J Intermediate Practicum/Elementary Teaching (1-4)
EECE 375 Contemporary Methods in Early Childhood Literacy (2)
EECE 388 Classroom Assessment (3)
EECE 430 Infant/Toddler Programs and Practices (3)
EECE 431 Child Study/Adaptations for Inclusion (3)
EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 435 Parent-Professional Relations (3)
EECE 441 Children’s Literature: Content and Methods (4)
EECE 467I Practicum: Infant and Toddler (1-4)
EECE 467K Practicum: Pre-Primary (1-4)
EECE 481C Student Teaching: Early Childhood (1-12)
EECE 488 Contemporary Issues and Ethics in Early Childhood Education (2)
HLTH 311 Health in the Elementary School (3)
MUS 319 Music for Classroom Teachers (3)
SPED 423 Young Children with Disabilities and Their Families (3)
Related Requirements (15 Credits)
In addition to the listed courses, students must complete two of the following three courses: BIOL 170, GEOS 170, and PSCI 170.
AMCS 233 Education and Multicultural America (3)
CMST 100 Speech Communication (3)
MATH 303 Foundations of Number Systems (3)

MINOR IN LANGUAGE AND LITERACY (23 Credits)
Requirements (10 Credits)
Students interested in this minor must consult with the EECE Department Chair and declare the minor.
EECE 291 Foundations of Literacy (3)
EECE 341 Reading and Language Arts I (3)
EECE 441 Children’s Literature: Content and Methods (4)

Restricted Electives (8 Credits)
Students must take three of the listed courses.
EECE 425 Improvement of Instruction in Reading and Language Arts (2)
EECE 445 Remedial and Corrective Reading (3)
EECE 448 Reading Study Skills in the Content Areas (3)
EECE 449 Linguistics in Reading (3)

Related Requirements (3 Credits)
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)

Electives (2-3 Credits)
Students must take at least one course from the following list.
ANTH 110 Introduction to Cultural Anthropology (3)
ANTH 265 Language and Culture (3)
CNSA 420 Basic Counseling Skills (3)
SLHS 101 Introduction to Speech-Language-Hearing Sciences (2)

LICENSE IN KINDERGARTEN (4 Credits)
Requirements (4 Credits)
Kindergarten licensure may be added to an elementary education (grades 1-6) license by successfully completing EECE 433 and one credit from EECE 467K. This approach to licensure is only available to students seeking licensure prior to September 1, 2005.
EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 467K Practicum: Pre-Primary (1-4)

CERTIFICATE IN PREPRIMARY EDUCATION (16 Credits)
Requirements (16 Credits)
EECE 234 Play and Development (3)
EECE 291 Foundations of Literacy (3)
EECE 333 Discovery Learning (3)
EECE 433 Preschool and Kindergarten Curriculum (3)
EECE 435 Parent-Professional Relations (3)
EECE 467K Practicum: Pre-Primary (1-4)

CERTIFICATE IN READING (15 Credits)
Requirements (12 Credits)
EECE 445 Remedial and Corrective Reading (3)
EECE 448 Reading Study Skills in the Content Areas (3)
ENGL 494 Teaching English in Middle/Junior High (3)
PSY 402 Child/Adolescent Psychology (3)

Restricted Electives (3 Credits)
Students must choose one of the listed courses.
ENGL 365 Language and Learning (3)
OR EECE 449 Linguistics in Reading (3)

CERTIFICATE IN SPECIAL EDUCATION (15 Credits)
Requirements (9 Credits)
SPED 413 Instructional Strategies (3)
SPED 445 Remedial and Corrective Reading (3)
SPED 471 Behavior and Environment Management (3)
Restricted Electives (6 Credits)
Students must take two of the following disability-specific courses.
SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
SPED 423 Young Children with Disabilities and Their Families (3)
SPED 461 Learning Disabilities (3)
SPED 473 Emotional/Behavioral Disorders (3)

CERTIFICATE IN TEACHING AND LEARNING WITH TECHNOLOGY (16 Credits)
Requirements (16 Credits)
ED 419 Creating Web-Based Curriculum Materials (2)
ED 422 Electronic Resources: Issues and Practice (2)
ED 425 Methods of Computer-mediated Communication in Education (2)
ED 428 Effective Use of Multimedia (2)
ED 433 Technology Troubleshooting for your Computer (2)
ED 434 Assessment Strategies for Technology-Enhanced Curricula (2)
ED 435 Infusing Technology into Mathematics (2)
ED 439 Infusing Technology into Literacy Instruction (2)
ED 442 Infusing Technology into the Science Curriculum (2)

Engineering Technology Department
Hagen 103, (218) 477-2104
Chair: Ronald Williams

All engineering students begin their studies with courses that teach fundamental concepts used throughout their careers - chemistry, physics, mathematics, and engineering mechanics. The engineering program at Minnesota State University Moorhead offers students the opportunity to take those courses in an environment dedicated to teaching. Students work closely with their advisor to develop a plan of study that includes those fundamentals plus classes in English, humanities, and the social sciences, before transferring to the engineering school of their choice as a third-year student.

Some students elect to remain at MSUM for a third year, completing their Liberal Studies requirements and taking some third-year engineering courses at North Dakota State University using the Tri-College University. This can be especially advantageous for students participating in Dragon athletics and for students who qualify for Minnesota state grants. These students are encouraged to work very closely with their academic advisor to be certain that all residency requirements at their transfer school are satisfied.

MSUM has long-standing transfer arrangements with North Dakota State University, the University of Minnesota, and several other regional schools of engineering. Those schools recognize the Tri-College University, which allows MSUM students to take engineering courses at NDSU, and accept those courses for transfer.

MSUM is the only public university in Minnesota to have Dual Degree programs with the University of Minnesota. Students complete the first three years of study in Chemistry or Physics at MSUM. They then transfer to the U of M, and take two years of courses in an engineering program. Upon completion, they earn a B.S. degree in Chemistry or Physics from MSUM, and a Bachelors degree in their field of engineering from the U of M.

The pre-engineering program at MSUM offers an excellent start to an engineering course of study for any student, with smaller classes than may be typical in a school of engineering. It is especially helpful for those students who are unsure of the major or the engineering school they will select. Coursework in their first year helps students explore majors in engineering and in related technology fields, and consider a range of engineering schools for transfer.

CURRICULUM IN PRE-ENGINEERING (64 Credits)
Requirements (47 Credits)
ENG 244 and 245 may not be required by some transfer institution curricula, and if not, will be replaced by electives.
CHEM 200 General Chemistry I (4)
ENG 113 Engineering Graphics/CAD (3)
ENG 130 Introduction to Engineering (2)
ENG 243 Engineering Mechanics I - Statics (3)
ENG 244 Engineering Mechanics II - Dynamics (3)
ENG 245 Engineering Mechanics III - Materials (3)
ENGL 101 Composition and Literature I (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 366 Differential Equations (3)
PHYS 200 General Physics I (4)
PHYS 201 General Physics II (4)

Electives (17 Credits)
Seventeen elective credits will be selected in consultation with the Pre-Engineering advisor. Many engineering programs will require CHEM 210, and most will require either ENGL 102 or ENGL 387. Most electrical engineering programs will require CSIS 150. Students should work closely with their advisor to develop a plan of study for transfer into their specific engineering program.

English Department
Weld 216, (218) 477-2235
Chair: Sheila Coghill
Faculty: Charles Bense, Kevin Carollo, Alan Davis, John Early, Lin Enger, Laura Fasick, Jill Frederick, Stephen Hamrick, Susan Imbarrato, Gordon Jackson, Gary Litt, Michael McCord, Katherine Meiners, Sandy Pearce, Hazel Retzlaff, Sharon Scapple, Elizabeth Severn, SuEllen Shaw, Thomas Tammaro, Marie Tarsitano, Mark Vinz, Richard Zinober.

Requirements for majors, dual majors, and minors in English are set forth in detail below. Anyone who wishes to major or minor in English must see the chairperson and be assigned an advisor. Because of the significant number of electives permitted, English majors and minors must consult their advisors each semester to plan programs which are both academically acceptable and personally satisfying. Students who wish to set up individualized majors including English courses (for instance, Comparative Literature or language studies) should consult the chair.

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.

All declared English majors are encouraged to take English 200: Introduction to Literary Studies, a gateway course that introduces students to the basic elements of literary study, including literary analysis, critical interpretation, and theoretical approaches.

Certificate in Publishing
English/Mass Communications
(Available Spring 2006)
The purpose of the Certificate in Publishing is to prepare students to work within the unique framework of the publishing industry, and to design and deliver an educational experience that allows students to learn about acquiring, editing, publishing and promoting new literature. As students at MSUM and as interns associated with New Rivers Press at MSUM, completing the certificate would develop a set of skills that will qualify a student for entry level employment in the publishing industry.

Please consult the department for further information.

STUDENT LEARNING OUTCOMES
BA Students should be able to:
- write interpretative and critical analysis of literary works;
- find authoritative literary scholarship in the library;
- 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.

Student learning outcomes for the English Teaching majors (B.S.) are from the National Council for the Teaching of English Guidelines.

Students should:
- demonstrate a respect for the worth and contributions of all learners;
- show an understanding of language acquisition and development;
- demonstrate the image of language and visual images on thinking and composing;
- demonstrate how to respond to and interpret what is read in different ways;
- use a wide range of writing strategies to generate meaning and to clarify understanding;
- show knowledge of a broad historical and contemporary spectrum of United States, British, and world literatures;
- recognize the influence of media on culture and on people’s actions and communication;
• use major sources of research and theory to understand the relationship between research and practice;
• examine, evaluate, and select resources which support the teaching of English language arts.

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

B.A. DEGREE IN ENGLISH (40 Credits)
Core Requirements (20 Credits)
The core is required of all students who seek the B.A. Degree or the B.S. Degree in English.
ENGL 211 Major British Writers I (4)
ENGL 212 Major British Writers II (4)
ENGL 314 Topics in Shakespeare (3)
ENGL 314T Shakespeare: Theory (1)
ENGL 371 Survey of American Literature I (4)
ENGL 372 Survey of American Literature II (4)

EMPHASIS IN LITERATURE (40 Credits)
Core Requirements (20 Credits)
Students must complete the courses listed as “Core Requirements” under the B.A. Degree in English.
Requirements (4 Credits)
Engl 496 is the capstone course for the literature concentration.
ENGL 496 Literature Capstone Seminar (4)

Restricted Electives (6 Credits)
One three credit course in literature written before 1800 and one three credit course written after 1800 are required. Both courses must be at the 300 level or above.

Electives (10 Credits)
Students must take ten credits in English elective courses. Of the ten credits, no more than one course may be at the 200 level; one course must be at the 300 or 400 level in British literature, and one course must be at the 300 or 400 level in American literature.

EMPHASIS IN WRITING (40 Credits)
Core Requirements (20 Credits)
Students must complete the courses listed as “Core Requirements” under the B.A. Degree in English.
Requirements (12 Credits)
Students must take twelve credits in English courses which have a writing emphasis. Select from the following courses:
ENGL 285 Scriptwriting (4)
ENGL 286 Practical Writing (3)
ENGL 288 Introduction to Creative Writing (3)
ENGL 354 Non Fiction Writing (3)
ENGL 387 Technical Report Writing (4)
ENGL 388 Creative Writing (3)
ENGL 395 Theory and Methods of Tutoring (3)
ENGL 469 Internship—Writing (1-12)
ENGL 487 Advanced Technical Report Writing (4)
ENGL 488 Advanced Creative Writing (1-4)

Restricted Electives (8 Credits)
Students must take a minimum of eight credits in literature electives at the 300 or 400 level.

B.S. DEGREE IN ENGLISH EDUCATION (86 Credits)
Core Requirements (19 Credits)
ENGL 211 Major British Writers I (4)
ENGL 212 Major British Writers II (4)
ENGL 314 Topics in Shakespeare (3)
ENGL 371 Survey of American Literature I (4)
ENGL 372 Survey of American Literature II (4)

Requirements (46 Credits)
ENGL 491 is the capstone course for students in this major. Students must also fulfill all teacher licensure requirements listed below.
AMCS 233 Education and Multicultural America (3)
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
ED 461S Student Teaching: Secondary (10)
ENGL 280 World Literature: East and West (3)
ENGL 365 Language and Learning (3)
ENGL 394 Advanced Composition (3)
ENGL 491 Methods of Teaching English (4)
ENGL 493 Grammars of English (3)
ENGL 494 Teaching English in Middle/Junior High (3)
SPED 320 Educational Services for Individuals with Exceptionalities (3)

Related Requirements (6 Credits)
CMST 210 Introduction to Communication Theory (3)
CMST 415 Teaching Methods: Communication Studies (3)

Electives (9 Credits)
Students must earn nine credits in English electives. One course must be at the 400 level, and two courses must be at the 300 or 400 level. Select from these recommended courses:
ENGL 361 Introduction to Descriptive Linguistics (3)
ENGL 472 Introduction to Sociolinguistics (3)
ENGL 496 Literature Capstone Seminar (4)

Recommended (0 Credits)
It is recommended that students who seek this degree also take this course.
ENGL 496 Literature Capstone Seminar (4)

MINOR IN ENGLISH EDUCATION (35 Credits)

Core Requirements (16 Credits)
Students who seek this minor must earn a teaching major in another discipline.
ENGL 211 Major British Writers I (4)
ENGL 212 Major British Writers II (4)
ENGL 371 Survey of American Literature I (4)
ENGL 372 Survey of American Literature II (4)

Requirements (19 Credits)
ENGL 280 World Literature: East and West (3)
ENGL 365 Language and Learning (3)
ENGL 394 Advanced Composition (3)
ENGL 491 Methods of Teaching English (4)
ENGL 493 Grammars of English (3)
ENGL 494 Teaching English in Middle/Junior High (3)

B.A. DUAL MAJOR IN ENGLISH AND MASS COMMUNICATIONS (69 Credits)

Core Requirements (16 Credits)
ENGL 211 Major British Writers I (4)
ENGL 212 Major British Writers II (4)
ENGL 371 Survey of American Literature I (4)
ENGL 372 Survey of American Literature II (4)

Requirements (21 Credits)
MC 100 Introduction to Mass Communications (3)
MC 210 Media Writing (3)
MC 220 Desktop Publishing (3)
MC 230 Photography (3)
MC 309 Reporting (3)
MC 400 Mass Media Ethics and Issues (3)
MC 401 Communications Law (3)

Restricted Electives (10 Credits)
Students must choose ten credits in English electives from the following list:
ENGL 285 Scriptwriting (4)
ENGL 286 Practical Writing (3)
ENGL 288 Introduction to Creative Writing (3)
ENGL 354 Non Fiction Writing (3)
ENGL 387 Technical Report Writing (4)
ENGL 388 Creative Writing (3)
ENGL 395 Theory and Methods of Tutoring (3)
ENGL 488 Advanced Creative Writing (1-4)

Electives (22 Credits)
Students must choose ten credits of English electives and twelve credits of Mass Communications electives. At least nine credits of
the English courses must be at the 300 level or above. One of the courses must be in American literature and one course must be in British literature. The English electives should be chosen in close consultation with an advisor from the English department.

MINOR IN ENGLISH (24 Credits)

Core Requirements (16 Credits)
ENGL 211 Major British Writers I (4)
ENGL 212 Major British Writers II (4)
ENGL 371 Survey of American Literature I (4)
ENGL 372 Survey of American Literature II (4)

Electives (8 Credits)
Students must take eight credits in English electives. One course must be at the 300 or 400 level in British literature and one course must be at the 300 or 400 level in American literature.

MINOR IN ENGLISH-WRITING (18 Credits)

Restricted Electives (12 Credits)
Students must take at least twelve credits chosen from the following courses. A maximum of three credits hours from English 469 is applicable to this minor.
ENGL 285 Scriptwriting (4)
ENGL 286 Practical Writing (3)
ENGL 288 Introduction to Creative Writing (3)
ENGL 354 Non Fiction Writing (3)
ENGL 387 Technical Report Writing (4)
ENGL 388 Creative Writing (3)
ENGL 395 Theory and Methods of Tutoring (3)
ENGL 469 Internship—Writing (1-12)
ENGL 488 Advanced Creative Writing (1-4)

Electives (6 Credits)
Students must take six credits in English elective courses in consultation with Minor advisor. Each student is encouraged to assemble a portfolio of writing samples to present to prospective employers.

Dean of Arts and Humanities
Bridges 250

LICENSURE IN ENGLISH AS A SECOND LANGUAGE (POST-BACCALAUREATE) (56 Credits)

Requirements (32 Credits)
Students in this program must hold a baccalaureate degree and have completed a minimum of one year of college-level (or two years of high-school level) foreign language. Students must satisfy the Human Relations component as required by the State of Minnesota.
ED 460S Student Teaching: Secondary (5)
EECE 388 Classroom Assessment (3)
EECE 448 Reading Study Skills in the Content Areas (3)
EECE 449 Linguistics in Reading (3)
EECE 480E Student Teaching: Elementary (5)
ENGL 361 Introduction to Descriptive Linguistics (3)
ENGL 472 Introduction to Sociolinguistics (3)
ENGL 478 Foundations of Teaching and Learning English as a Second Language (3)
ENGL 479 Methods for Teaching ESL and Bilingual Learners (4)

Related Requirements (24 Credits)
Students are required to complete ED 443E or 443S. This choice should be made in close consultation with their faculty advisor.
AMCS 233 Education and Multicultural America (3)
CMST 100 Speech Communication (3)
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
EECE 291 Foundations of Literacy (3)
SPED 320 Educational Services for Individuals with Exceptionalities (3)
ED 443E Classroom Management/Consultation (3)
OR ED 443S Classroom Management/Consultation (3)
The following course is highly recommended.
ENGL 493 Grammars of English (3)

Communication Studies, Film Studies, and Theatre Arts Department
Roland Dille Center for the Arts 116, (218) 477-2126
Chair: Craig Ellingson
Program Coordinator: Harold “Rusty” Casselton

The Film Studies major is designed for students who wish to work in some aspect of the film industry as well as those who are interested in the academic study of film. Faculty incorporate the traditional format of film and the new technologies of digital video into the curriculum.

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

The faculty and students of the Communication Studies, Film Studies, and Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. In each of the three areas of the department – Communication Studies, Film Studies, and Theatre Arts – we provide a challenging, contemporary, relevant curriculum within the context of the Liberal Arts that prepares our graduates to become contributing and ethical citizens in a diverse, global community. We promote creativity, critical thinking, and lifelong discovery through courses that integrate theory and history with practice and application.

STUDENT LEARNING OUTCOMES
Students who graduate with a degree from Minnesota State University Moorhead with a major in Film Studies should meet the following objectives:

• Students will utilize three phases (preproduction/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 specialized language use, cinematography principles, lighting and sound elements, editing and directing concepts.
• Students will examine, analyze, and articulate conclusions as to the historical/critical values inherent in film text materials.
• Students will integrate evaluation, theory and production/research skills in the creation of a capstone project for public presentation.

UPPER LEVEL WRITING REQUIREMENT
Majors in Film Studies will meet the upper level writing requirement through FILM 480 – Film Theory and Criticism.

B.A. DEGREE IN FILM STUDIES (51 Credits)
Core Requirements (26 Credits)
CMST 100 Speech Communication (3)
FILM 101A Practicum (1)
OR FILM 101B Practicum (1)
OR FILM 101C Practicum (1)
OR FILM 101D Practicum (1)
FILM 270 Introduction to Telecommunications and Film (3)
FILM 272 Video Production (3)
FILM 280 History of Film (3)
FILM 281 Film Appreciation (3)
FILM 386 Genre Studies (3)
OR FILM 387 Director Studies (3)
OR FILM 388 Topical Studies (3)
FILM 402 Practicum (1)
FILM 480 Film Theory and Criticism (3)
FILM 496 Senior Seminar (3)

EMPHASIS IN FILM HISTORY AND CRITICISM (51 Credits)
Core Requirements (26 Credits)
Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Film Studies.
Requirements (16 Credits)
FILM 302 Practicum (1)
FILM 382 Film and the Novel (3)
FILM 385 International Cinema (3)
FILM 386 Genre Studies (3)
FILM 387 Director Studies (3)
FILM 388 Topical Studies (3)

Electives (9 Credits)
Must include one Film course.
ART 170 Art Appreciation: Content and Form (3)
ART 233 History of Art I: Prehistory through the Middle Ages (4)
ART 234 History of Art II: Renaissance through Modern (4)
CMST 210 Introduction to Communication Theory (3)
CMST 310 Rhetorical Theory and Criticism (3)
CMST 410 The Rhetoric of Popular Culture (3)
ENGL 285 Scriptwriting (4)
ENGL 350 Literary Criticism and Theory (3)
FILM 284 Beginning Filmmaking (3)
FILM 384 Techniques of Film Directing (3)
FILM 386 Genre Studies (3)
FILM 387 Director Studies (3)
FILM 388 Topical Studies (3)
FILM 390 Topics in Film (1-3)
FILM 416 Special Projects in Film (1-3)
FILM 469 Internship (3-12)
FILM 472 Advanced Video Production (2)
FILM 490 Topics in Film (1-3)
MUS 364 Survey of Film Music (3)
PHIL 320 Philosophy of the Arts (3)
OR ART 320 Philosophy of the Arts (3)
THTR 230 Principles of Acting (3)
THTR 235 Principles of Stage Directing (3)
THTR 255 Technical Theatre Methods (3)
THTR 322 Development of Drama I (3)
THTR 355 Scene Design I (3)

EMPHASIS IN FILM PRODUCTION (51 Credits)

Core Requirements (26 Credits)
Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Film Studies.

Requirements (16 Credits)
ENGL 285 Scriptwriting (4)
FILM 284 Beginning Filmmaking (3)
FILM 384 Techniques of Film Directing (3)
FILM 484 Sixteen Millimeter Film Production (3)
FILM 485 Advanced Film Production (3)

Electives (9 Credits)
Must include one Film course.
ART 170 Art Appreciation: Content and Form (3)
ART 233 History of Art I: Prehistory through the Middle Ages (4)
ART 234 History of Art II: Renaissance through Modern (4)
ENGL 285 Introduction to Creative Writing (3)
ENGL 388 Creative Writing (3)
FILM 382 Film and the Novel (3)
FILM 385 International Cinema (3)
FILM 386 Genre Studies (3)
FILM 387 Director Studies (3)
FILM 388 Topical Studies (3)
FILM 390 Topics in Film (1-3)
FILM 416 Special Projects in Film (1-3)
FILM 469 Internship (3-12)
FILM 472 Advanced Video Production (3)
FILM 490 Topics in Film (1-3)
GCOM 216 3D Modeling (3)
GCOM 316 Three Dimensional Animation (3)
GCOM 416 Advanced Three Dimensional
Animation (3)
MC 230 Photography (3)
OR ART 203F Introduction to Photography (4)
MC 251 Desktop Video (3)
MUS 363 Music for Film and Multimedia (3)
MUS 364 Survey of Film Music (3)
MUS 381 Audio Production I (3)
MUS 382 Digital Audio I (3)
PHIL 320 Philosophy of the Arts (3)
OR ART 320 Philosophy of the Arts (3)
THTR 230 Principles of Acting (3)
THTR 235 Principles of Stage Directing (3)
THTR 255 Technical Theatre Methods (3)
THTR 322 Development of Drama I (3)
THTR 355 Scene Design I (3)

See Business

Biosciences Department
King Hall 103, (218) 477-2572
Chair: Donna Bruns Stockrahm

MSUM does not offer a degree in forestry, but students can prepare for a career in forestry with two-year pre-forestry followed by transfer to a university which awards a degree in forestry such as the University of Minnesota.

See Languages and Cultures

See Geosciences under Anthropology and Earth Science

See Geosciences under Anthropology and Earth Science

See Geosciences under Anthropology and Earth Science

Sociology and Criminal Justice Department
Lommen 102, (218) 477-2045
Chair: Joel Powell-Dahlquist
Program Coordinator: Susan Humphers-Ginther

Gerontology is a field of study that integrates several disciplinary perspectives on human aging, including sociology, social work, psychology, and biology. It explores the aging process of individuals and societies, including:
• the study of physical, mental, and social changes;
• the investigation of societal changes resulting from an aging population; and
• the application of this knowledge to policy and program development.

STUDENT LEARNING OUTCOMES
Not approved by date of publication. Consult department for Student Learning Outcomes.
UPPER LEVEL WRITING REQUIREMENT
Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement. See the department or faculty advisor for specific details.

B.A. DEGREE IN GERONTOLOGY (48-49 Credits)

Core Requirements (15 Credits)
In addition to the core requirements, students must complete an emphasis in Anthropology, Biology, Economics, Health, Health Services Administration, Political Science, Psychology, Social Work, or Sociology.

NURS 420 Gerontological Nursing (2)
PHIL 311 Morals and Medicine (3)
PSY 403 Adulthood and Aging (3)
SOC 308 Social Gerontology (3)
OR SW 308 Social Gerontology (3)
SW 410 Gerontology: Policy and Practice (4)
OR SOC 410 Gerontology: Policy and Practice (4)

Restricted Electives (6 Credits)
Students must earn at least six credits in research methods chosen from the following courses.

ECON 370 Quantitative Economic Analysis (3)
MATH 234 Introduction to Probability and Statistics (4)
PSY 231 Psychological Statistics and Methodology I (3)
PSY 232 Psychological Statistics and Methodology II (3)
SOC 350 Methods and Statistics for Social Research (4)
SOC 351 Quantitative Methods (3)
SOC 352 Qualitative Methods (3)
SW 360 Research Methods in Social Work (3)

Electives (15 Credits)
Students must choose fifteen credits from the following courses. Concordia and NDSU offer courses which may also be used as electives in the Gerontology major. Students should consult with a faculty advisor prior to making such substitutions. Complete course lists are available from the department. Students are encouraged to take an internship related to gerontological issues.

ACCT 230 Principles of Accounting I (3)
ACCT 304 Legal Environment of Business (3)
ACCT 321 Employment Law (3)
ANTH 348 Ideas of Culture (3)
BIOL 236 Introduction to Microbiology (3)
BIOL 323 Human Anatomy (4)
BIOL 349 Human Physiology (4)
ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
FINC 340 Financial Management (3)
FINC 360 Principles of Investment (3)
HIST 241 History of Social Welfare (3)
HLTH 305 Introduction to Nutrition (3)
HLTH 315 Health Agencies and Services (3)
HLTH 330 Disease Prevention (2)
MGMT 360 Principles of Management (3)
MGMT 451 Organizational Behavior (3)
MKTG 310 Principles of Marketing (3)
NURS 409 Adaptation to Chronic Illness (2)
PHIL 311 Morals and Medicine (3)
POL 221 State and Local Government (3)
POL 340 Public Administration (3)
POL 341 Public Policy (3)
PSY 202 Developmental Psychology (3)
PSY 265 Health Psychology (3)
PSY 463 Abnormal Psychology (3)
SOC 315 Population (3)
SOC 320 Sociology of the Family (3)
SOC 375 Sociology of Health and Medicine (3)
SOC 412 Sociology of Complex Organizations (3)
SW 403 Health Care Issues and Services (3)
SW 404 Rural Social Work (3)
SW 411 Chemical Dependency (3)
EMPHASIS IN ANTHROPOLOGY (48 Credits)

Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives” under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Anthropology for the Gerontology degree. Students must complete the listed course, plus nine credits of cultural anthropology electives.
ANTH 110 Introduction to Cultural Anthropology (3)

EMPHASIS IN BIOLOGY (48 Credits)

Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives” under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Biology for the Gerontology degree. Students must complete twelve credits from the listed courses.
BIOL 104 Human Biology (3)
BIOL 111 Cell Biology (4)
BIOL 236 Introduction to Microbiology (3)
BIOL 241 Principles of Human Genetics (3)
BIOL 323 Human Anatomy (4)
BIOL 341 Genetics (4)
BIOL 349 Human Physiology (4)

EMPHASIS IN ECONOMICS (48 Credits)

Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives” under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Economics for the Gerontology degree.
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
ECON 302 Intermediate Microeconomic Theory (3)
ECON 304 Intermediate Macroeconomic Theory (3)

EMPHASIS IN HEALTH (49 Credits)

Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (13 Credits)
This is the emphasis in Health for the Gerontology degree. Students must complete the listed courses plus three credits of health electives.
HLTH 200 Introduction to Health Education and Health Promotion (2)
HLTH 305 Introduction to Nutrition (3)
HLTH 315 Health Agencies and Services (3)
HLTH 330 Disease Prevention (2)

EMPHASIS IN HEALTH SERVICES ADMINISTRATION (48 Credits)

Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Health Services Administration for the Gerontology degree.
HLTH 315 Health Agencies and Services (3)
HLTH 416 Health Services Management (3)
HLTH 418 Medical and Health Care Law (3)
HLTH 419 Financial Management of Health Care Organizations (3)

EMPHASIS IN POLITICAL SCIENCE (48 Credits)

Core Requirements (36 Credit)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.
Requirements (12 Credits)
This is the emphasis in Political Science for the Gerontology degree. In addition to the two listed courses, students must complete six elective credits in Political Science.
POL 105 Making Sense of Politics (3)
POL 120 American National Government and Politics (3)

EMPHASIS IN PSYCHOLOGY (48 Credits)
Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Psychology for the Gerontology degree.
PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)
PSY 261 Personality (3)
PSY 320 Social Psychology (3)
  OR PSY 342 Learning and Memory (3)
  OR PSY 345 Physiological Psychology (3)
  OR PSY 348 Cognition and Perception (3)
  OR PSY 463 Abnormal Psychology (3)

EMPHASIS IN SOCIAL WORK (48 Credits)
Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Social Work for the Gerontology degree.
SW 250 Introduction to Social Welfare and Social Work (3)
SW 330 Human Behavior and the Social Environment (3)
SW 420 Generalist Practice: Individuals (3)
SW 430 Generalist Practice: Families (3)
  OR SW 440 Generalist Practice: Groups (3)
  OR SW 450 Generalist Practice: Communities and Organizations (3)

EMPHASIS IN SOCIOLOGY (48 Credits)
Core Requirements (36 Credits)
Students must complete the courses listed as “Core Requirements”, “Restricted Electives”, and “Electives”, under the B.A. Degree in Gerontology.

Requirements (12 Credits)
This is the emphasis in Sociology for the Gerontology degree.
SOC 110 Introduction to Sociology (3)
SOC 230 Social Psychology (3)
SOC 302 Social Theory (3)
SOC 310 Dominant-Subordinate Group Relations (3)

MINOR IN GERONTOLOGY (21 Credits)
Requirements (12 Credits)
Courses at Concordia or NDSU may be taken through the Tri-College University and substituted for SOC 308 and PSY 403. Please consult with an advisor prior to attempting such substitution.
NURS 420 Gerontological Nursing (2)
PHIL 311 Morals and Medicine (3)
SOC 308 Social Gerontology (3)
PSY 403 Adulthood and Aging (3)
SOC 410 Gerontology: Policy and Practice (4)

Electives (9 Credits)
Students must take nine elective credits. Courses may be selected from those listed. Concordia and NDSU offer courses which may also be used as electives in the Gerontology minor. Students should consult with a faculty advisor prior to making such substitutions. Complete course lists are available from the department.
BIOL 104 Human Biology (3)
PHIL 311 Morals and Medicine (3)
SOC 375 Sociology of Health and Medicine (3)
PSY 317 Alcoholism and Drug Abuse (3)
The Graphic Communications degree is designed to prepare individuals for entry-level positions in the graphic communications industry. It is a two-track program, with options in either digital design and production or multimedia development.

The Digital Design and Production option concentrates on the design and production of materials for mass consumption. These could be pieces for multimedia, technical illustration, print, film/video, or television. The Multimedia Development Option concentrates on preparing the individual for a role as a multimedia and/or web designer, or as a computer animator. Both options heavily emphasize the use of computer technology as the key tool for the graphic communicator. Macintosh and PC computer platforms are taught, with the focus being on the Macintosh platform, as it is the primary computer utilized in the graphics industry.

The Graphic Communications program provides students with learning experiences that will assist them in becoming competent graphic communicators. The program is designed to expose the students to many real life situations that they will face in the workplace. It also strives to produce students who are accomplished with many of the new technologies used in today’s graphics industry. The program is multidisciplinary, with students enrolling in courses in Art, Music, Mass Communications, and Computer Science.

Graduates of this program are skilled in many of the areas of the graphics industry. This background provides them experiences in computer graphics, multimedia, photography, printing, advertising, graphic design, presentation graphics, television, CAD, and computer animation.

STUDENT LEARNING OUTCOMES
The program of study is designed to prepare a professional graphic communicator who possesses skills and knowledge acquired through education and hands-on experience necessary to secure entry-level employment in one of the following areas: graphic and digital design, multimedia authoring and development, web authoring and development, and computer animation.

- **Communication Skills:** The student will be able to apply oral, written, graphic and effective listening skills.
- **Technical Skills:** The student will be able to implement various forms of manual and computer technology inclusive in the development and production of the visual image. This includes the many industry standard hardware and software applications used by the graphic communications industry.
- **Graphic Communications Methods:** The student will be able to apply the methods of the graphic communications industry as described by the American Institute of Graphic Arts (AIGA), Printing Industries of America (PIA), and Graphic Communications Association (GCA).
- **Estimating:** The student will be able to understand the sequence of estimating work. This includes the establishing of BHR’s, equipment selection, workspace design, and job estimation.
- **Project Administration:** The student will be able to initiate a design project, formulate and project, work independently to complete all aspects of the project within the assigned timeframe, and present and interpret their work to industry practitioners.

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

B.S. DEGREE IN GRAPHIC COMMUNICATIONS (66-70 Credits)

Core Requirements (31 Credits)
This core is required of all students majoring in one of the Graphic Communications options: Digital Design and Production or Multimedia Development.

- GCOM 150 Survey of Graphic Communications - Industry (1)
- GCOM 152 Design for Graphic Communications I (3)
- GCOM 216 3D Modeling (3)
- GCOM 255 Beginning Computer Graphics (3)
- GCOM 259 Graphic Communications Technologies (2)
GCOM 266 Introduction to Multimedia (3)
GCOM 355 Intermediate Computer Graphics (3)
GCOM 452 Graphic Communications Management (3)
GCOM 459A Graphic Communications Final
  Project A (2)
GCOM 459B Graphic Communications Final
  Project B (2)
MC 230 Photography (3)
TECH 113 Engineering Graphics/CAD (3)

Related Requirements (12 Credits)
These related requirements are required of all students who major one of the Graphic Communications options: Digital Design and Production or Multimedia Development.
ECON 100 The American Economy (3)
MATH 127 College Algebra (3)
PSY 113 General Psychology (3)
OR SOC 110 Introduction to Sociology (3)
CMST 100 Speech Communication (3)
OR THTR 230 Principles of Acting (3)

OPTION IN MULTIMEDIA DEVELOPMENT (66-68 Credits)
Core Requirements (43 Credits)
Students must complete the courses listed as “Core Requirements” and “Related Requirements” under the B.S. Degree in Graphic Communications.

Requirements (12 Credits)
GCOM 316 Three Dimensional Animation (3)
GCOM 366 Web Authoring with Dreamweaver (3)
GCOM 368 Multimedia Authoring with Flash (3)
FILM 272 Video Production (3)
OR MC 251 Desktop Video (3)

Restricted Electives (11-13 Credits)
Students must take one course from (GCOM 416, 466); one course from (CSIS 130, 150); one course from (MUS 381, 382); and one course from
(MUS 363, 364).
GCOM 416 Advanced Three Dimensional Animation (3)
OR GCOM 466 Advanced Multimedia/Web Authoring and Development (3)
AND CSIS 130 Introduction to Visual Programming (3)
OR CSIS 150 Introduction to Computers and Programming I (4)
AND MUS 363 Music for Film and Multimedia (3) OR MUS 364 Survey of Film Music (3)
AND MUS 381 Audio Production I (3)
OR MUS 382 Digital Audio I (3)

OPTION IN DIGITAL DESIGN AND PRODUCTION (70 Credits)
Core Requirements (43 Credits)
Students must complete the courses listed as “Core Requirements” and “Related Requirements” under the B.S. Degree in Graphic Communications.

Requirements (12 Credits)
GCOM 252 Design for Graphic Communications II (3)
GCOM 455 Advanced Computer Graphics (3)
GCOM 457 Digital Prepress (3)
GCOM 458 Digital Production (3)

Electives (15 Credits)
Elective credits must be chosen from one or more departments that have courses which relate to the Graphic Communications industry. Elective courses must be approved by the faculty advisor prior to enrollment. Students must meet any prerequisite requirements for their elective choices.

See Art and Design
Health and Physical Education Department
Nemzek 106, (218) 477-2445
Chair: Wendy Frappier
Faculty: Jan Adair, Nancy Christensen, James Gemar, Barry Halm, Dawn Hammerschmidt, Dawn Hoffner, Chris Huot, Merle
Johnson, Ralph Micheli, Randall Smith

MSUM’s Health and Physical Education (HPE) Department offers programs for students who are interested in administrative
positions in health care delivery, community health promotion, teaching health or physical education in schools, exercise science,
athletic training or coaching.

Requirements for Physical Education degrees are listed under Physical Education, requirements for Athletic Training degrees are
listed under Athletic Training, and requirements for Health Services Administration degrees are listed under Health Services
Administration in this Bulletin.

Bachelor of Science in Community Health
Community-based Health Education Specialists work for local, state, and federal government agencies as well as voluntary and
private health organizations. In addition, many large corporations employ individuals who develop, conduct, and evaluate programs
concerned with the health and welfare of employees. The educational program at MSUM prepares students to become a Certified
Health Education Specialist (CHES).

Bachelor of Science in Health Education: Teaching
School health educators are licensed to teach health education in the public or private schools at 5-12 level. Students obtaining a health
education teaching degree are also eligible for positions in the community setting. Graduates who wish to teach health education at the
post-secondary level must have a Masters degree, or preferably, a Doctorate in health education.

STUDENT LEARNING OUTCOMES:
As recommended by the National Commission for Health Education Credentialing, the student should be able to:
• assess individual and community needs for health education;
• plan effective health education programs;
• implement health education programs;
• evaluate effectiveness of health education programs;
• coordinate provision of health education services;
• act as a resource person in health education;
• communicate health education needs, concerns and resources.

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

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

Requirements (36 Credits)
Students must earn at least seven credits of internship in HLTH 469. Exceptions to this requirement will need to be approved by the
department chairperson.
HLTH 110 Personal Health and Wellness (3)
HLTH 125 First Aid and CPR (2)
HLTH 200 Introduction to Health Education and Health Promotion (2)
HLTH 305 Introduction to Nutrition (3)
HLTH 315 Health Agencies and Services (3)
HLTH 327 Safety Education and Consumer Protection (3)
HLTH 330 Disease Prevention (2)
HLTH 340 Health Methods and Materials (3)
HLTH 412 Education for Sexuality and HIV/AIDS (3)
HLTH 415 Design and Evaluation of Community Health Programs (3)
HLTH 465 Comprehensive School Health Programs (2)
HLTH 469 Internship (2-12)

Restricted Electives (17 Credits)
Selection of courses from the following areas must be approved by the student’s advisor and will depend on the student’s occupational
goal and prior experience. All students must earn at least nine credits from social and natural science courses and eight credits from
communication skills courses. Substitutions to this group of courses may be made with the permission of the student’s advisor.
ANTH 110 Introduction to Cultural Anthropology (3)
ANTH 302 Cultural Aspects of Aging (3)
BIOL 104 Human Biology (3)
BIOL 236 Introduction to Microbiology (3)
CHEM 102 Survey of Basic Principles of Chemistry (3)
CHEM 110 Fundamentals of Chemistry (4)
CHEM 180 Introduction to Organic and Biochemistry (4)
CHEM 185 Introduction to Organic and Biochemistry Lab (1)
CMST 100 Speech Communication (3)
ENGL 387 Technical Report Writing (4)
HLTH 326 Epidemiology (3)
MC 220 Desktop Publishing (3)
PSY 113 General Psychology (3)
PSY 120 Social Behavior (3)
PSY 265 Health Psychology (3)
SOC 110 Introduction to Sociology (3)
SOC 220 Social Deviance (3)
SOC 308 Social Gerontology (3)
SOC 375 Sociology of Health and Medicine (3)
SW 490 Grant Writing (4)

Related Requirements (9 Credits)
BIOL 103 Humanity and the Ecosystem (3)
CSIS 103 Computer Concepts and Applications (3)
PE 321 Human Physiology (3)

MINOR IN COMMUNITY HEALTH (21 Credits)
Requirements (21 Credits)
HLTH 110 Personal Health and Wellness (3)
HLTH 125 First Aid and CPR (2)
HLTH 200 Introduction to Health Education and Health Promotion (2)
HLTH 305 Introduction to Nutrition (3)
HLTH 315 Health Agencies and Services (3)
HLTH 327 Safety Education and Consumer Protection (3)
HLTH 330 Disease Prevention (2)
HLTH 412 Education for Sexuality and HIV/AIDS (3)

B.S. DEGREE IN HEALTH EDUCATION-TEACHING (74 Credits)
Requirements (29 Credits)
Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.
HLTH 110 Personal Health and Wellness (3)
HLTH 125 First Aid and CPR (2)
HLTH 200 Introduction to Health Education and Health Promotion (2)
HLTH 305 Introduction to Nutrition (3)
HLTH 315 Health Agencies and Services (3)
HLTH 327 Safety Education and Consumer Protection (3)
HLTH 330 Disease Prevention (2)
HLTH 335 Health Education and the Middle Level Adolescent (3)
HLTH 340 Health Methods and Materials (3)
HLTH 412 Education for Sexuality and HIV/AIDS (3)
HLTH 465 Comprehensive School Health Programs (2)

Related Requirements (12 Credits)
Courses in the following areas: Biology, Physical Education, Psychology, and Sociology (Suggested courses are listed).
BIOL 103 Humanity and the Ecosystem (3)
PE 321 Human Physiology (3)
PSY 113 General Psychology (3)
SOC 110 Introduction to Sociology (3)

MINOR IN HEALTH EDUCATION-TEACHING (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)
Not approved by date of publication. Consult department for Student Learning Outcomes.

STUDENT LEARNING OUTCOMES

Minnesota with this program that satisfies requirements to become licensed as a nursing home Administrator in Minnesota. Applicants for a license major in Health standards are among the highest in the nation and include requirements only available through a college or university. The MS in M nursing home Federal law requires that any individual responsible for the administration of an organization with nursing home beds be licensed. Encouragement is encouraged to consider this Emphasis in Long term Care Administration. Individuals with an understanding of the unique needs of the elderly. ALL MAJORS in Long term Care Administration. Be electing this emphasis, students present a special interest 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. Be electing this emphasis, students present a special interest and preparation in the expanding field of elderly care. This Emphasis requires special coursework in addition to the requirements for a major in Health Services Administration.

Emphasis in Long Term Care Administration (11 credits)
With the growth of the population above age 65, career opportunities are expanding in the organizations offering services to the elderly. Many organizations offer a range of services that meet the diverse needs of seniors including skilled nursing care, assisted care and independent living. Opportunities are also expanding in community agencies providing services and programs to seniors living in their own homes. Home Care organizations and Senior Centers are examples of these organizations which also require individuals with an understanding of the unique needs of the elderly. ALL MAJORS in Health Services Administration are encouraged to consider this Emphasis in Long term Care Administration.

Federal law requires that any individual responsible for the administration of an organization with nursing home beds be licensed as a nursing home administrator. To become licensed also requires meeting the standards of the state in which the individual will practice and passing a national examination. Each state establishes its own standards. Some states require an additional state examination.

In Minnesota, standards have been developed by the Board of Examiners for Nursing Home Administrators (BENHA). These standards are among the highest in the nation and include requirements only available through a college or university. The MSUM major in Health Services Administration with an emphasis in Long Term Care Administration has been approved by BENHA as a program that satisfies requirements to become licensed as a nursing home Administrator in Minnesota. Applicants for a license in Minnesota with this emphasis are still required to take a state and national examination.

STUDENT LEARNING OUTCOMES
Not approved by date of publication. Consult department for Student Learning Outcomes.

HLTH 465 Comprehensive School Health Programs (2)
PE 321 Human Physiology (3)
**UPPER LEVEL WRITING REQUIREMENT**
Majors in Health Services Administration will meet the upper level writing requirement though Health 418 – Medical and Health Care Law.

**B.S. DEGREE IN HEALTH SERVICES ADMINISTRATION (65 Credits)**

**Requirements (29 Credits)**

- Students must earn twelve credits in HLTH 469.
- HLTH 315 Health Agencies and Services (3)
- HLTH 330 Disease Prevention (2)
- HLTH 414 Health Services Planning and Evaluation (3)
- HLTH 416 Health Services Management (3)
- HLTH 418 Medical and Health Care Law (3)
- HLTH 419 Financial Management of Health Care Organizations (3)
- HLTH 469 Internship (12)

**Restricted Electives (9 Credits)**

A minimum of nine credit hours to be selected in consultation with the major field advisor. At least three credits must be in courses numbered 300 and above. Suggested courses are listed.

- ACCT 304 Legal Environment of Business (3)
- BIOL 102 Matter and Life (3)
- BIOL 104 Human Biology (3)
- BIOL 236 Introduction to Microbiology (3)
- BIOL 241 Principles of Human Genetics (3)
- BIOL 323 Human Anatomy (4)
- BIOL 349 Human Physiology (4)
- CHEM 110 Fundamentals of Chemistry (4)
- CHEM 180 Introduction to Organic and Biochemistry (4)
- HLTH 110 Personal Health and Wellness (3)
- HLTH 200 Introduction to Health Education and Health Promotion (2)
- HLTH 305 Introduction to Nutrition (3)
- MGMT 370 Management Information Systems (3)
- PSY 113 General Psychology (3)
- PSY 120 Social Behavior (3)
- PSY 265 Health Psychology (3)
- SOC 230 Social Psychology (3)
- SOC 308 Social Gerontology (3)
- SOC 375 Sociology of Health and Medicine (3)
- SOC 410 Gerontology: Policy and Practice (4)
- SW 403 Health Care Issues and Services (3)

**Related Requirements (27 Credits)**

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- CSIS 103 Computer Concepts and Applications (3)
- MGMT 360 Principles of Management (3)
- MGMT 370 Management Information Systems (3)
- MGMT 440 Personnel Management (3)
- MKTG 310 Principles of Marketing (3)
- PE 321 Human Physiology (3)
- POL 340 Public Administration (3)

**EMPHASIS IN LONG TERM CARE ADMINISTRATION (11 Credits)**

**Requirements (17-27 Credits)**

Complete the requirements for a major in Health Services Administration with no substitutions in the following major requirements:

- HLTH 416 Health Services Management (3)
- HLTH 418 Medical and Health Care Law (3)
- HLTH 419 Financial Management of Health Care Organizations (3)
- HLTH 469 Internship (2-12)
- MGMT 370 Management Information Systems (3)
- MGMT 440 Personnel Management (3)

**Electives (11 Credits)**

Complete the following as electives:

- HLTH 421 Long Term Care Administration (3)
- NURS 420 Gerontological Nursing (2)
- PARA 416 Elder Law (3)
History Department
MacLean 302, (218) 477-2812
Chair: Steve Hoffbeck
Faculty: Henry Chan, Paul Harris, Annette K. Morrow, Maureen Reed, Margaret Sankey, I. Kenneth Smemo

The History Department offers courses in U.S., European, and world history to meet the varied needs and interests of our students. History courses can be applied to fulfill Liberal Studies requirements in both Division C (Social and Behavioral Sciences) and Division F (Global and Multicultural Studies). Upper-division courses in History also prepare students for careers as teachers or in such diverse areas as law, government, libraries, museums, and business. The study of history at MSUM involves much more than the memorization of names and dates. Our students learn to think analytically and critically about the past and to understand history as the experiences of real human beings.

STUDENT LEARNING OUTCOMES
Students completing programs in History and Social Studies should be able to demonstrate the ability to do the following:

Reading Comprehension and Cognitive Skills
- identify the main point or thesis in a piece of historical writing;
- analyze how authors develop their theses and support them with evidence;
- recognize and evaluate differences in historical interpretation among different authors.

Historical Thinking Skills
- recognize potential sources of bias in historical writings;
- understand and interpret events in their appropriate historic context;
- understand and interpret relations of cause and effect and other sequential relations;
- understand the complexity of human motivations and appreciate cultural differences in patterns of behavior and ideation;
- synthesize a variety of evidence into a coherent and plausible account of events.

Research Skills
- recognize the difference between primary and secondary sources, and understand the uses and importance of each type;
- select and refine an appropriate topic for a given assignment;
- identify a variety of different kinds of source materials that could shed light on a particular topic;
- use the library and various bibliographic aids to identify and locate different sources relevant to a particular topic;
- evaluate which of their sources are the most authoritative;
- compile and annotate a bibliography, and present it in proper format;
- conduct an oral history interview.

Written Communication Skills
- formulate a thesis on the basis of insights gained from research;
- develop their thesis in an organized and logical progression;
- use appropriate evidence to support points;
- cite their sources properly;
- summarize points made in source materials, and make the connections between different points of view and their own;
- recognize the shortcomings of their evidence and anticipate possible objections;
- respond constructively to criticism and make appropriate revisions;
- write clear and grammatical prose;
- critically evaluate the work of other students.

Oral Communication Skills
- respond clearly and thoughtfully to questions and comments in class discussion;
- draw upon and summarize reading materials in ways that address larger themes and issues;
- deliver an effective oral presentation;
- critically evaluate the work of other students.

Computer Literacy
- produce a paper using word processing software;
• use e-mail;
• conduct research using the World Wide Web in addition to traditional sources.

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

B.A. DEGREE IN HISTORY (50 Credits)
Requirements (19-20 Credits)
Students must earn at least three credits in Senior Seminar.
HIST 104 World History I (4)
HIST 105 World History II (4)
HIST 121 History of the United States to 1877 (4)
HIST 122 History of the United States Since 1877 (4)
HIST 401 Senior Seminar (3-4)

Restricted Electives (18 Credits)
Students must complete at least six credits at the 300 level or above in European history and at least six credits at the 300 level or above in United States or Canadian history. In addition, students must earn at least six credits at the 300 level or above from one or more of the following areas: Africa, Asia, Latin America, and the modern Middle East.

Related Requirements (8 Credits)
Students must take one year of a foreign language or demonstrate equivalent competency.

Electives (5 Credits)
Students must earn at least 42 credits in courses with the History rubric. The elective total of 5 credits in History may vary, depending on the credit value of the History courses which students present for graduation.

MINOR IN HISTORY (25 Credits)
Requirements (16 Credits)
HIST 104 World History I (4)
HIST 105 World History II (4)
HIST 121 History of the United States to 1877 (4)
HIST 122 History of the United States Since 1877 (4)

Restricted Electives (9 Credits)
Students must take three credits of electives which are at the 300 level or above in Africa, Asia, Latin America, or the modern Middle East. In addition, students must take six credits in elective study at the 300 level or above in courses in United States history, Canadian history and European history.

HONORS PROGRAM (13 Credits)
Core Requirements (4 Credits)
HON 200 Honors Colloquium (4)

Restricted Electives (9 Credits)
Students must take at least three courses from those listed.
HON 300 American Society (4)
HON 301 Masterpieces of Literature (4)
HON 303 Nature of Physical Reality (3)
HON 305 Good and Evil in Literature (4)
HON 306 Human Nature in the Western Tradition (3)
HON 307 Transformation of the Roman World: 31 B.C. to A.D. 312 (4)
HON 308 Aesthetics of Music (3)
HON 312 Journeys in Literature: Classical and Medieval Masterpieces (3)
HON 315 Science and Time (3)
HON 318 Issues of the Nuclear Age (3)

See Philosophy

See Academic Programs section of this Bulletin

Technology Department
Hagen 103, (218) 477-2104
Chair: Ronald Williams
Program Coordinator: Wade Swenson

MSUM's Industrial Technology degree with its two options was the first specialized accredited technical management B.S. degree program in Minnesota. The National Association of Industrial Technology (NAIT) accredits both IT options: Industrial Distribution—ID and Industrial Management—IM. The Industrial Technology B.S. degree is designed to prepare students to be successful in a technical management setting.

The Technology Department mission is to provide nationally accredited programs from which students graduate to become leaders capable of handling the complexities and challenges of an industrially-oriented business environment. The Industrial Technology B.S. degree seeks to develop graduates who recognize the importance of the business-technology interface in a world increasingly dominated by technology. The faculty members endeavor to develop in these future leaders a thorough understanding of the supplier-manufacturer-distributor infrastructure that forms the backbone of the current world business model.

Career paths available to Industrial Technology graduates
• Operations Managers: Oversee a facility’s production and shipping schedules, while maintaining product quality, plant efficiency, workforce, materials, and equipment to meet customer service needs, and a favorable working environment.
• Materials Managers: Plan and control distribution, from the acquisition of raw materials to the delivery of finished products.
• Technical Sales & Marketing: Sell products and provide specialized knowledge and advice to customers.
• Quality Assurance Specialists: Coordinate the overall design and maintenance of activities related to quality issues.
• Branch & Corporate Management: Use talent for planning, integrating diverse activities, managing money, and working with people in a business environment.
• Design Positions: Work on design teams in varied departments from engineering, to manufacturing, to facilities depending on abilities and interests.
• Other paths include: Production Management, Supply Chain Management, Purchasing, and Logistics.

Industrial Distribution—ID option
Industrial Distribution graduates are the "behind the scenes" specialists in wholesale distribution and logistics focusing on understanding of the processes, which integrates procurement, production, distribution, and customer relations into a system for creating value for the end user. Industrial Distribution graduates look at the movement of materials from the procurement stage as raw materials or components through the manufacturing-processing stage to the marketing and distribution of end products for industrial or commercial users. The technical nature of much of this activity, together with the profit incentive that drives it, requires an instructional approach that combines business and technology courses. The types of positions available to the ID graduate range from the manufacturing/construction sector to food products, pharmaceuticals, soft goods, and computer firms. The placement rate of Industrial Distribution graduates approaches 100%.
Industrial Management—IM option
The industrial manager fills the gap between the people and the technology. Industrial managers and supervisors require three types of skills: people skills, analytical or problem solving skills, and, because of the close interaction with technology and technical workers, they must possess a technologically knowledge base. Students selecting the Industrial Management option will equip themselves to be managers in the challenging environment of modern manufacturing. However, employment opportunities exist in many environments. Upon graduation they will be prepared to address critical contemporary issues related to productivity management in a variety of business settings. The IM graduate is employed in leadership roles designing and implementing management programs. The IM graduate develops microcomputer and software applications knowledge that gives them a competitive edge in the job market. The placement rate of Industrial Management graduates approaches 100%.

Industrial Management Minor
For students in business, accounting, or a related area, the selection of the Industrial Technology minor will provide a valuable asset in seeking management positions in a technical environment.

STUDENT LEARNING OUTCOMES
The Industrial Technology program at MSUM is accredited by the National Association for Industrial Technology (NAIT). The outcomes for the program must at a minimum address the competencies necessary to maintain that accreditation. The Technology Department faculty meet regularly with an industrial Advisory Board to update a list of outcomes that will prepare an Industrial Technologist who possesses skills and knowledge acquired through education and on-site experience.

- **Communication Skills:** The student will be able to apply oral, written, graphic, and listening skills, as well as the use of technology to communicate with others.
- **Information Technology Skills:** The student will be able to demonstrate computer skills appropriate to business and industry.
- **Scientific and Technical Skills:** The student will be able to apply mathematical, and physical sciences to business and industrial applications.
- **Manufacturing Processes and Technologies:** The student will be able to interpret OSHA, NIOSH, and other standards and be able to demonstrate knowledge of visualization and CAD.
- **Economics and Cost Estimating:** The student will be able to perform process safety evaluations and analyses.
- **Quality Management:** The student will be able to demonstrate skills for determining the costs and benefits associated with quality management.
- **Work Environment Design and Improvement:** The student will be able to understand and apply quality tools and techniques for quality control, and the application of quality tools and techniques for designing products and services.
- **Production and Inventory Management:** The student will be able to understand the varied needs for inventory management.
- **Positive Personal Habits:** The student will be able to apply appropriate management skills, and cultural diversity.
- **Global and Cultural Awareness:** The student will exhibit ethical actions and conduct, and a concern for global principles.

UPPER LEVEL WRITING REQUIREMENT
Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement.

B.S. DEGREE IN INDUSTRIAL TECHNOLOGY (83-85 Credits)
**Core Requirements (27 Credits)**
This core must be taken by students who are majoring in one of the Industrial Technology options: Industrial Distribution, Industrial Management, or Technical Management.
- ACCT 230 Principles of Accounting I (3)
- MGMT 360 Principles of Management (3)
- TECH 380 Methods Improvement (3)
- TECH 383 Cost Analysis (3)
TECH 385 Process Leadership (3)  
TECH 394 Computer Applications for Engineers and Technologists (3)  
TECH 428 Project Management (3)  
TECH 482 Quality Planning and Implementation (3)  
TECH 493 Occupational Safety and Health (3)  

**OPTION IN INDUSTRIAL DISTRIBUTION**  
(85 Credits)  
**Core Requirements (27 Credits)**  
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Industrial Technology.  

**Requirements (35 Credits)**  
Students must complete at least three credits in TECH 469.  
MKTG 310 Principles of Marketing (3)  
MKTG 315 Industrial Marketing (3)  
MKTG 419 Distribution Management (3)  
TECH 101 Industrial Technology Careers (1)  
TECH 113 Engineering Graphics/CAD (3)  
TECH 230 Manufacturing Processes (3)  
TECH 274 Electrical and Motor Technology (4)  
TECH 346 Industrial Distribution Operations (3)  
TECH 376 Industrial Process Control (3)  
TECH 387 Fluid Power (3)  
TECH 469 Student Internship (2-12)  
TECH 485 Production and Inventory Management (3)  

**Related Requirements (23 Credits)**  
CHEM 102 Survey of Basic Principles of Chemistry (3)  
CMST 100 Speech Communication (3)  
CSIS 103 Computer Concepts and Applications (3)  
ECON 202 Principles of Economics I: Micro (3)  
MATH 229 Fundamentals of Applied Mathematics (3)  
MATH 234 Introduction to Probability and Statistics (4)  
PHYS 160 College Physics I (4)  

**OPTION IN INDUSTRIAL MANAGEMENT**  
(84 Credits)  
**Core Requirements (27 Credits)**  
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Industrial Technology.  

**Requirements (34 Credits)**  
Students must earn at least three credits in TECH 490.  
TECH 101 Industrial Technology Careers (1)  
TECH 111 Technology and Society (2)  
TECH 113 Engineering Graphics/CAD (3)  
TECH 216 3D Modeling (3)  
TECH 230 Manufacturing Processes (3)  
TECH 274 Electrical and Motor Technology (4)  
TECH 376 Industrial Process Control (3)  
TECH 382 Manufacturing Automation (3)  
TECH 387 Fluid Power (3)  
TECH 483 Facility Design (3)  
TECH 485 Production and Inventory Management (3)  
TECH 490 Special Problems (1-4)  

**Related Requirements (23 Credits)**  
CHEM 102 Survey of Basic Principles of Chemistry (3)  
CMST 100 Speech Communication (3)  
CSIS 103 Computer Concepts and Applications (3)  
ECON 202 Principles of Economics I: Micro (3)  
MATH 229 Fundamentals of Applied Mathematics (3)  
MATH 234 Introduction to Probability and Statistics (4)  
PHYS 160 College Physics I (4)  

**OPTION IN TECHNICAL MANAGEMENT**  
(83 Credits)
Core Requirements (27 Credits)
Students must complete the courses listed as “Core requirements” under the B.S. Degree in Industrial Technology.

Requirements (33 Credits)
All students who intend to complete this option must transfer in at least 30 credits in a technical area which have been earned at a Technical or Community College. Additionally, students must earn at least three credits in TECH 469.

Related Requirements (23 Credits)
In addition to the listed courses, students must earn a minimum of six semester credits in Chemistry and/or Physics. At least one of the courses must have a lab component.
CSIS 103 Computer Concepts and Applications (3)
ECON 202 Principles of Economics I: Micro (3)
ENGL 387 Technical Report Writing (4)
MATH 127 College Algebra (3)
MATH 234 Introduction to Probability and Statistics (4)

MINOR IN INDUSTRIAL MANAGEMENT
(21 Credits)

Requirements (12 Credits)
Students must take twelve credits from the Industrial Management options courses listed.
TECH 113 Engineering Graphics/CAD (3)
TECH 216 3D Modeling (3)
TECH 230 Manufacturing Processes (3)
TECH 274 Electrical and Motor Technology (4)
TECH 376 Industrial Process Control (3)
TECH 382 Manufacturing Automation (3)
TECH 387 Fluid Power (3)
TECH 483 Facility Design (3)
TECH 485 Production and Inventory Management (3)
TECH 490 Special Problems (1-4)

Related Requirements (9 Credits)
Students must take nine credits from the listed Technical Management core courses.
TECH 380 Methods Improvement (3)
TECH 383 Cost Analysis (3)
TECH 385 Process Leadership (3)
TECH 394 Computer Applications for Engineers and Technologists (3)
TECH 428 Project Management (3)
TECH 482 Quality Planning and Implementation (3)
TECH 493 Occupational Safety and Health (3)

See Business

Contact Faculty: Andrew Conteh, MacLean 320, (218) 477-4009 or Bruce Roberts, LO 102F, (218) 477-2043

This major is designed around a required international experience such as an internship or exchange program. Students are expected to acquire an understanding of the culture and the geographical area of the county in which they study. A core of required international courses across the curriculum at the lower level is combined with an upper level emphasis in development or diplomacy. Students develop a proficiency in a foreign language and complete a senior project with the advice and counsel of an interdisciplinary committee including their advisor.

This program is ideal for those who wish to develop a career involving various kinds of international relations such as careers with the Foreign Service, non-governmental agencies, international organizations such as the U.N., IMF, NATO, EU, or working in international trade for multinational companies. It is also excellent preparation for participation in international volunteer organizations such as the Peace Corps and non-governmental organizations (NGO’s).

B.S. DEGREE IN INTERNATIONAL STUDIES (57-74 Credits)

Core Requirements (33-49 Credits)
This core is required of all students who major in one of the International Studies emphases: Development or Diplomacy. Students must complete a minimum of one credit in INTL 400 and a minimum of three credits in INTL 450. In addition to the listed courses, students are required to demonstrate proficiency at the second year level in a foreign language. Students may demonstrate their competency by means of an evaluation by the language department, or they must complete college level courses through the 200 level.
If course work is required, this may add up to 16 semester credits to the requirements of this major.

ANTH 110 Introduction to Cultural Anthropology (3)
ECON 204 Principles of Economics II: Macro (3)
GEOS 111 Cultures and Regions (3)
HIST 104 World History I (4)
HIST 105 World History II (4)
INTL 105 Introduction to Global Issues (3)
INTL 400 Global Experience (1-2)
INTL 450 Senior Project (3-6)
PHIL 120 World Religions (3)
POL 160 International Relations (3)
SOC 110 Introduction to Sociology (3)

EMPHASIS IN DEVELOPMENT (57-74 Credits)

Core Requirements (33-49 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in International Studies.

Requirements (21 Credits)
Students must complete at least 21 credits chosen from the following list.

ANTH 306 Medical Anthropology (3)
ANTH 307 Ecological Anthropology (3)
CMST 300 Intercultural Communication (3)
ECON 300 Global Economic Issues (3)
ECON 335 Comparative Systems and Economic Development (3)
GEOS 320 Economic Geography (3)
GEOS 410 Eastern Europe and Russia (3)
HIST 334 History of Latin America II (4)
HIST 336 History of Mexico (3)
HLTH 326 Epidemiology (3)
POL 265 International Protection of Human Rights (3)
POL 352 Political Problems in Developing Countries (3)
POL 361 International Political Economy (3)
SOC 315 Population (3)
SOC 322 Urban Sociology (3)

Restricted Electives (3-4 Credits)
Students must take one of the listed research methods courses.

CMST 215 Communication Research Methods (3)
POL 310 Political Science Research Methods (3)
SOC 350 Methods and Statistics for Social Research (4)

EMPHASIS IN DIPLOMACY (57-74 Credits)

Core Requirements (33-49 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in International Studies.

Requirements (21 Credits)
Students must complete at least 21 credits from the listed courses.

ANTH 220 Peoples and Cultures of Africa (3)
ANTH 265 Language and Culture (3)
ANTH 380 Traditional Cultures (3)
CMST 300 Intercultural Communication (3)
GEOS 320 Economic Geography (3)
GEOS 410 Eastern Europe and Russia (3)
HIST 302 East Asian History II (3)
HIST 318 Modern Germany (4)
HIST 322 History of Britain II (3)
HIST 325 Modern France (4)
HIST 346 Modern China (3)
HIST 347 Modern Japan (3)
MC 300 International Communications (3)
POL 265 International Protection of Human Rights (3)
POL 350 Comparative Governments of Western Europe (3)
POL 352 Political Problems in Developing Countries (3)
POL 360 American Foreign Policy (3)
POL 361 International Political Economy (3)
POL 363 Public International Law (3)
POL 366 International Conflict Resolution (3)
POL 369 International Organizations (3)

Restricted Electives (3-4 Credits)
Students must complete one of the listed research methods courses.
CMST 215 Communication Research Methods (3)
POL 310 Political Science Research Methods (3)
SOC 350 Methods and Statistics for Social Research (4)

See Languages and Cultures

See Mass Communications

Languages and Cultures Department
MacLean 271, (218) 477-2912
Chair: Takanori Mita
Faculty: John Hall, James Kaplan, Jenny Lin, Cecillia Mafla-Bustamante, Cristina Mitrovici, Benjamin Smith

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 and literature. At the fourth year level, students may choose their own emphasis, taking courses that focus on culture and civilization, linguistics, and/or literature. 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:

<table>
<thead>
<tr>
<th>Year</th>
<th>1st Semester</th>
<th>2nd Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>Spanish 301; optional: Spanish 351.</td>
<td>Spanish 302</td>
</tr>
<tr>
<td>3rd</td>
<td>Spanish 321 or 322, Spanish 401.</td>
<td>Spanish 311, Spanish 402.</td>
</tr>
<tr>
<td>4th</td>
<td>Any two 400 level courses.</td>
<td>Any 400 level Spanish course, Spanish 498.</td>
</tr>
</tbody>
</table>

Students are encouraged to take more than the minimum number of credits required for the major in order to attain the highest possible level of proficiency in Spanish and a more solid preparation in the major. These additional credits and a higher level of proficiency could prove to be valuable in pursuing a graduate degree and/or in enhancing employment opportunities.

Students who are seeking a B.S. degree in Spanish Education will need to work closely with their advisor in order to make the proper adjustments to the program outlined above. Students who begin their Spanish studies at a level below Spanish 201 will also need to make adjustments to the above schedule, in consultation with their faculty advisor.

Admission to Spanish 301 has the following prerequisites:
- Transfer students or incoming freshmen must take a placement exam before enrolling in Spanish 301.
- Students who have taken Spanish 201 and 202 at MSUM must have a minimum GPA of 3.0 in those two courses in order to enroll in Spanish 301.
French
The department offers 4 semesters of French (101, 102, 201, 202). Students may obtain a minor in French through Tri-College coursework.

Other Languages
Students may obtain minors in German, Greek, Norwegian, Russian Studies, and Scandinavian Studies through Tri-College coursework.

Study Abroad
Students who are studying in the Department of Languages and Cultures are strongly encouraged to take advantage of the opportunity to study abroad. MSUM is affiliated with the International Student Exchange Program (ISEP), which allows students to pay tuition at MSUM and attend universities all over the world. We also have exchange programs and connections with other study abroad programs in China, Japan, Mexico and Ecuador. Students who wish to study abroad should work closely with their faculty advisor in order to plan a course of study that will apply to their major or minor coursework here.

General Information
It is advised that students begin the study of a language or continue the study of a foreign language they have studied previously in the fall semester of their freshman year.

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 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, 202, 251, 252).

Consult with the department chair if you have questions concerning placement. In addition, instructors carry out placement evaluations during the first week of class each semester.

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 Languages 441 and 442. Students are advised to take more than the minimum number of credits required for the major. Candidates for teaching licensure must be able to pass a number of proficiency tests that meet the standards of the State Board of Teaching before the application for teaching licensure can be approved. All students seeking a B.S. major or minor in the department should establish and maintain close contact with a departmental advisor to be certain that satisfactory progress is being made toward the degree. Consult with the department chair concerning an advisor.

Graduate Study in Foreign Languages
A reading knowledge of a second foreign language is essential to graduate study in languages. A student who expects to seek a graduate degree is advised to plan an undergraduate curriculum with a minor in a second language or with a double major. It is also advisable to take more than the minimum credits required for the major. Please see the MSUM Graduate Bulletin for information about our Master of Liberal Arts Degree with an Emphasis in Hispanic Studies.

STUDENT LEARNING OUTCOMES
The department’s assessment plan in the areas of listening, speaking, reading, writing and culture is based on the American Council on the Teaching of Foreign Languages Proficiency Guidelines.

Listening: At the Advanced Mid proficiency level, students are able to:
• understand main ideas and most details of connected discourse on a variety of topics in different time; demonstrate emerging awareness of culturally implied meanings.

Reading: At the Advanced High proficiency level, students are able to follow essential points of written discourse at normal speed. They are able to:
• comprehend a variety of authentic, linguistically and expository texts on familiar and unfamiliar subjects, such as descriptions, narration, news items, biographical information, personal correspondence, routine business letters and simple technical material;
• comprehend facts and make appropriate inferences;
• appreciate the basic aesthetic properties of language and literary style.

Writing: At the Intermediate-Mid/High proficiency level, students are able to meet most practical writing needs. They are able to:
• write simple social correspondences, take notes, compose summaries, narratives and descriptions of a factual nature;
• use a range of vocabulary to express intended meaning with some circumlocution;
• demonstrate good control of the basic syntax and morphology of the target language;
• organize essays to clearly develop main thesis and argumentation showing some awareness of intended audience and appropriate linguistic register.
**Speaking:** At the Intermediate Mid/High proficiency level, students can initiate and maintain communication for most uncomplicated social tasks. They are able to:
• successfully handle basic survival needs in the target culture;
• be understood by most speakers of the native language;
• narrate, and describe in the past, present, and future time frames;
• converse with ease and confidence when dealing with most routine tasks and social situations.

**Knowledge of Culture:** Students are expected to demonstrate familiarity with:
• major aspects of the history and civilization of countries where the target language is spoken;
• major contemporary aspects of the countries where the target language is spoken—political, social, cultural, etc.;
• routine business and social situations in the target culture such as common rules of etiquette, taboos and sensitivities.

**Knowledge of Literature:** Students are expected to demonstrate familiarity with:
• major authors, texts and literary movements in the target literature;
• basic concepts of literary analysis.

**Research and Information Gathering:** Students in upper-division literature, culture, and linguistics courses should be able to:
• locate and use appropriate secondary sources, bibliographical materials;
• use proper scholarly format for writing papers including accreditation of source materials;
• prepare bibliographies (annotated) of primary and secondary sources as required;
• organize and present results of information gathering in a coherent manner.

**Knowledge about Language as a System:** Students will be:
• aware that every language has distinctive features of morphology, phonology, semantics, and register to communicate meaning.

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

**B.A. DEGREE IN EAST ASIAN STUDIES**
(40 Credits)

**Core Requirements (22 Credits)**
This core is required of all students who major in one of the East Asian Studies emphases: Language and Culture, Humanities, and Business. All students must complete CHIN 132 and JAPN 142. Additionally, students must complete the CHIN 101, 102, 201, 202 sequence or the JAPN 101, 102, 201, 202 sequence. Students may not count courses in more than one category; if a course satisfies the Core Requirements section, it may not also be used to satisfy a requirement in any of the emphases. No courses in the Core Requirements or the emphases may be taken Pass/No Credit.

CHIN 101 Beginning Chinese I (4)
CHIN 102 Beginning Chinese II (4)
CHIN 201 Intermediate Chinese I (4)
CHIN 202 Intermediate Chinese II (4)
CHIN 132 Introduction to Chinese Culture (3)  **AND** JAPN 142 Introduction to Japanese Culture (3)  **OR** JAPN 101 Beginning Japanese I (4)
JAPN 102 Beginning Japanese II (4)
JAPN 201 Intermediate Japanese I (4)
JAPN 202 Intermediate Japanese II (4)
CHIN 132 Introduction to Chinese Culture (3)  **AND** JAPN 142 Introduction to Japanese Culture (3)

**Related Requirements (6 Credits)**
Students must earn six credits from the following list of courses:
HIST 301 East Asian History I (3)
HIST 302 East Asian History II (3)
HIST 346 Modern China (3)
HIST 347 Modern Japan (3)

**EMPHASIS IN BUSINESS (40 Credits)**

**Core Requirements (28 Credits)**
Students must complete the courses listed under “Core Requirements” and “Related Requirements” for the B.A. Degree in East Asian Studies.

**Requirements (12 Credits)**
Students must earn twelve credits from the following list of courses. Normally, business minors or majors will not need additional prerequisites to take these courses. Non-business students should note that ECON 202 and ECON 204 are prerequisites for ECON 300; FINC 340, ACCT 231, and MATH 234 are prerequisites for FINC 445, MKTG 310 is a prerequisite for MKTG 444; and MGMT
EMPHASIS IN HUMANITIES (40 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed under “Core Requirements” and “Related Requirements” for the B.A. Degree in East Asian Studies.

Requirements (3 Credits)

ART 338 Non-Western Art (4)

Restricted Electives (9 Credits)

Students must earn four credits from the listed history courses (students may not use courses taken previously to satisfy the Related Requirements section). Students must also earn five credits in advanced language/culture study in the listed Chinese, History, Humanities, Japanese, or Speech courses (students may satisfy part or all of the language/culture requirement via approved study abroad programs).

CHIN 301 Advanced Chinese Grammar (4)
CHIN 302 Chinese Conversation and Composition (4)
CHIN 350 Chinese Calligraphy (2)
CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)
CHIN 397 Independent Study in Chinese - Advanced Level (1-2)
CMST 300 Intercultural Communication (3)
HIST 220 Asian-American Culture (2)
HIST 301 East Asian History I (3)
HIST 302 East Asian History II (3)
HIST 346 Modern China (3)
HIST 347 Modern Japan (3)
HIST 401 Senior Seminar (3-4)
HIST 497 Individual Study (1-3)
HUM 220 Introduction to East-West Humanities (3)
JAPN 301 Advanced Japanese Grammar (4)
JAPN 302 Japanese Conversation and Composition (4)
JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)
JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)

EMPHASIS IN LANGUAGE AND CULTURE (40 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed under “Core Requirements” and “Related Requirements” for the B.A. Degree in East Asian Studies.

Restricted Electives (12 Credits)

Students must complete four credits from the listed history courses (students may not use courses taken previously to satisfy the Related Requirements section). Students must also complete eight credits in advanced language/culture study in the listed Japanese or Chinese courses (students may satisfy part or all of the language/culture requirement via approved study abroad programs).

CHIN 301 Advanced Chinese Grammar (4)
CHIN 302 Chinese Conversation and Composition (4)
CHIN 350 Chinese Calligraphy (2)
CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)
CHIN 397 Independent Study in Chinese - Advanced Level (1-2)
HIST 301 East Asian History I (3)
HIST 302 East Asian History II (3)
HIST 346 Modern China (3)
HIST 347 Modern Japan (3)
HIST 401 Senior Seminar (3-4)
HIST 497 Individual Study (1-3)
JAPN 301 Advanced Japanese Grammar (4)
JAPN 302 Japanese Conversation and Composition (4)
JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)
JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)
MINOR IN EAST ASIAN STUDIES (21 Credits)

Requirements (8 Credits)
Students must take one year of Chinese language or Japanese language.

Electives (13 Credits)
Students must take a minimum of two courses (6-8 Credits) in East Asian History. In addition, students must choose at least five credits in elective courses in close consultation with an advisor in the East Asian program. Courses may be taken from the list below. Other courses may apply if approved by the program coordinator.

Equivalents of some of these courses may be taken through study abroad programs with approval of the program coordinator.

ART 338 Non-Western Art (4)
CHIN 101 Beginning Chinese I (4)
CHIN 102 Beginning Chinese II (4)
CHIN 190 Topics in Chinese Language, Literature, and Culture (1-4)
CHIN 201 Intermediate Chinese I (4)
CHIN 202 Intermediate Chinese II (4)
CHIN 250 Beginning Chinese Calligraphy (2)
CHIN 290 Topics in Chinese Language, Literature, and Culture (1-4)
CHIN 297 Independent Study in Chinese - Intermediate Level (1-2)
CHIN 301 Advanced Chinese Grammar (4)
CHIN 302 Chinese Conversation and Composition (4)
CHIN 350 Chinese Calligraphy (2)
CHIN 390 Topics in Chinese Language, Literature, and Culture (1-4)
CHIN 397 Independent Study in Chinese - Advanced Level (1-2)
CMST 300 Intercultural Communication (3)
ECON 335 Comparative Systems and Economic Development (3)
HIST 220 Asian-American Culture (2)
HIST 301 East Asian History I (3)
HIST 302 East Asian History II (3)
HIST 307 Topics in Asian History (3)
HIST 346 Modern China (3)
HIST 347 Modern Japan (3)
HIST 378 Asian-American History (3)
HIST 401 Senior Seminar (3-4)
HIST 497 Individual Study (1-3)
HUM 220 Introduction to East-West Humanities (3)
JAPN 101 Beginning Japanese I (4)
JAPN 102 Beginning Japanese II (4)
JAPN 190 Topics in Japanese Language, Literature, and Culture (1-4)
JAPN 201 Intermediate Japanese I (4)
JAPN 202 Intermediate Japanese II (4)
JAPN 290 Topics in Japanese Language, Literature, and Culture (1-4)
JAPN 297 Independent Study in Japanese - Intermediate Level (1-2)
JAPN 301 Advanced Japanese Grammar (4)
JAPN 302 Japanese Conversation and Composition (4)
JAPN 390 Topics in Japanese Language, Literature, and Culture (1-4)
JAPN 397 Independent Study in Japanese: Advanced Level I (1-2)
PHIL 120 World Religions (3)
CHIN 132 Introduction to Chinese Culture (3)
JAPN 142 Introduction to Japanese Culture (3)

B.A. DEGREE IN SPANISH (38 Credits)

Requirements (26 Credits)

All students must complete a total of two credits in SPAN 498.
SPAN 201 Intermediate Spanish I (4)
SPAN 202 Intermediate Spanish II (4)
SPAN 301 Spanish Grammar (4)
SPAN 302 Spanish Conversation and Composition (4)
SPAN 311 Introduction to Spanish Literature (4)
SPAN 321 Iberian Culture and Civilization (4)

OR SPAN 322 Latin American Culture and Civilization (4)
SPAN 498 Senior Project (1-2)

Restricted Electives (12 Credits)

Students must take twelve 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.
SPAN 321 Iberian Culture and Civilization (4)
SPAN 322 Latin American Culture and Civilization (4)
SPAN 351 Advanced Spanish Conversation (2-3)
SPAN 401 Advanced Conversation and Composition (3)
SPAN 402 Survey of Spanish Linguistics (3)
SPAN 411 Survey of Iberian Literature (3)
SPAN 412 Survey of Latin American Literature (3)
SPAN 413 Genres and Themes of Iberian/Latin American Literature (3)
SPAN 414 Periods and Authors of Iberian/Latin American Literature (3)
SPAN 490 Special Topics in Spanish Language, Literature or Culture (3)

MINOR IN SPANISH (23 Credits)
Requirements (20 Credits)

In addition to the courses listed below, students must take one 300 or 400 level Spanish elective.

SPAN 201 Intermediate Spanish I (4)
SPAN 202 Intermediate Spanish II (4)
SPAN 301 Spanish Grammar (4)
SPAN 302 Spanish Conversation and Composition (4)
SPAN 321 Iberian Culture and Civilization (4)
OR SPAN 322 Latin American Culture and Civilization (4)

Restricted Electives (3 Credits)
Students must take one 3 or 4 credit course at the 300 or 400 level.

B.S. DEGREE IN SPANISH-TEACHING

(79 Credits)
Requirements (34 Credits)

The teaching major is identical to the B.A. program except that students must take Lang 441 and 442 and fulfill all teacher licensure requirements which will add thirty-three credits to the major. All students must complete a total of two credits in SPAN 498.

LANG 441 Methods and Materials in Teaching Foreign Languages I (4)
LANG 442 Methods and Materials in Teaching Foreign Languages II (4)
SPAN 201 Intermediate Spanish I (4)
SPAN 202 Intermediate Spanish II (4)
SPAN 301 Spanish Grammar (4)
SPAN 302 Spanish Conversation and Composition (4)
SPAN 311 Introduction to Spanish Literature (4)
SPAN 321 Iberian Culture and Civilization (4)
OR SPAN 322 Latin American Culture and Civilization (4)
SPAN 498 Senior Project (1-2)

Restricted Electives (12 Credits)
Students must take twelve credits 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.

SPAN 321 Iberian Culture and Civilization (4)
SPAN 322 Latin American Culture and Civilization (4)
SPAN 351 Advanced Spanish Conversation (2-3)
SPAN 401 Advanced Conversation and Composition (3)
SPAN 402 Survey of Spanish Linguistics (3)
SPAN 411 Survey of Iberian Literature (3)
SPAN 412 Survey of Latin American Literature (3)
SPAN 413 Genres and Themes of Iberian/Latin American Literature (3)
SPAN 414 Periods and Authors of Iberian/Latin American Literature (3)
SPAN 490 Special Topics in Spanish Language, Literature or Culture (3)

MINOR IN SPANISH-TEACHING (31 Credits)
Requirements (28 Credits)

The teaching minor is identical to the non-teaching minor except that students must take Lang 441 and 442 and must earn a teaching major in another discipline.

LANG 441 Methods and Materials in Teaching Foreign Languages I (4)
LANG 442 Methods and Materials in Teaching Foreign Languages II (4)
SPAN 201 Intermediate Spanish I (4)
SPAN 202 Intermediate Spanish II (4)
SPAN 301 Spanish Grammar (4)
SPAN 302 Spanish Conversation and Composition (4)
SPAN 321 Iberian Culture and Civilization (4)
OR SPAN 322 Latin American Culture and Civilization (4)
**Restricted Electives (3 Credits)**

Students must take one 3 or 4 credit course at the 300 or 400 level.

- Latin

- See Classics

**Program Director:** Paul Kramer, MacLean 354, (218) 477-4022

The Legal Studies major provides undergraduates with an opportunity to become familiar with legal ideas, legal institutions, and the legal process. It is designed to provide tools for reasoned appraisal of how the law works and of the policies that underlie it. The major is based firmly on the view that the study of law and justice has a rich humanistic tradition and that its pursuit can encourage reflection on fundamental values.

The courses deal with a wide variety of subjects, including philosophy of law, American and Anglo-American history, non-western legal traditions, politics and law, sociology and criminal justice, as well as economic policy and business law applications. Courses are taught by faculty with backgrounds in the Humanities and Social Sciences as well as law.

The Legal Studies major was not specifically designed to be the only path for preparing students for law school, nor does it provide significant paralegal training. On the other hand, it does help students develop their ability to think clearly and analyze arguments critically. This multidisciplinary approach exposes the student to a great variety of human behaviors and institutions. Many students who plan to go to law school may benefit from this major as a field of liberal arts study.

Students choosing this degree program should be aware that most of the upper division courses in the major have prerequisites which will be enforced. Students interested in this program of study are strongly encouraged to meet with the Legal Studies Director as early as possible in their academic career to form a coherent plan regarding course selection.

**STUDENT LEARNING OUTCOMES**

Not approved by date of publication. Consult program director for Student Learning Outcomes.

**UPPER LEVEL WRITING REQUIREMENT**

Students who complete all requirements, as indicated for each degree, typically will have met the approved upper level writing requirement. See the program director for specific details.

**B.A. DEGREE IN LEGAL STUDIES (63-64 Credits)**

**Core Requirements (15 Credits)**

- ACCT 304 Legal Environment of Business (3)
- CMST 211 Argumentation and Debate (3)
- PARA 250 Legal Research and Writing I (3)
- PARA 251 Legal Research and Writing II (3)
- POL 230 Introduction to the Law (3)

**Restricted Electives (27 Credits)**

Students who major in one of the Legal Studies emphases (The American Legal System, Economics and Business, History, Human Rights, Philosophy, or Sociology and Criminal Justice) are required to earn twenty-seven credits from the listed elective choices. Courses used to satisfy the student’s emphasis cannot be applied to this requirement.

- ACCT 306 Contracts and Business Entities (3)
- ACCT 307 Commercial Transactions, Property and Special Topics (3)
- CJ 335 Criminal Law (3)
- CJ 337 Criminal Procedure (3)
- ECON 315 Government and Business (3)
- ECON 317 History of Economic Thought (3)
- HIST 321 History of Britain I (3)
- HIST 322 History of Britain II (3)
- HIST 366 Constitutional History of the United States to 1865 (3)
- HIST 367 Constitutional History of the United States since 1865 (3)
- PARA 310 Civil Procedure I (3)
- PARA 340 Evidence (3)
- PHIL 300 History of Ethics (4)
- PHIL 303 Classical Philosophy (4)
- PHIL 305 Modern Philosophy: 17th Century (2)
- PHIL 306 Modern Philosophy: 18th Century (2)
- PHIL 340 Symbolic Logic (3)
POL 265 International Protection of Human Rights (3)
POL 332 Constitutional Law I: Institutional Powers and Constraints (3)
POL 333 Constitutional Law II: Civil Rights and Liberties (3)
POL 363 Public International Law (3)
POL 366 International Conflict Resolution (3)
SOC 230 Social Psychology (3)
SOC 307 Sociology of Courts (3)
SOC 309 Law and Society (4)

Related Requirements (9 Credits)
Students who major in one of the Legal Studies emphases (The American Legal System, Economics and Business, History, Human Rights, Philosophy, or Sociology and Criminal Justice) must complete the listed courses. These courses may also be used to satisfy Liberal Studies requirements.

POL 120 American National Government and Politics (3)
SOC 110 Introduction to Sociology (3)
PHIL 101 Introduction to Western Philosophy (3)
PHIL 105 Philosophical Thinking (4)

EMPHASIS IN THE AMERICAN LEGAL SYSTEM (63 Credits)
Requirements (12 Credits)
In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

CJ 337 Criminal Procedure (3)
PARA 310 Civil Procedure I (3)
PARA 340 Evidence (3)
POL 332 Constitutional Law I: Institutional Powers and Constraints (3)

EMPHASIS IN ECONOMICS AND BUSINESS (63 Credits)
Requirements (12 Credits)
In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

ACCT 306 Contracts and Business Entities (3)
ACCT 307 Commercial Transactions, Property and Special Topics (3)
ECON 315 Government and Business (3)
ECON 317 History of Economic Thought (3)

EMPHASIS IN HISTORY (63 Credits)
Requirements (12 Credits)
In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

HIST 321 History of Britain I (3)
HIST 322 History of Britain II (3)
HIST 366 Constitutional History of the United States to 1865 (3)
HIST 367 Constitutional History of the United States since 1865 (3)

EMPHASIS IN HUMAN RIGHTS (63 Credits)
Requirements (12 Credits)
In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

POL 265 International Protection of Human Rights (3)
POL 333 Constitutional Law II: Civil Rights and Liberties (3)
POL 363 Public International Law (3)
POL 366 International Conflict Resolution (3)

EMPHASIS IN PHILOSOPHY (64 Credits)
Requirements (13 Credits)
In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

PHIL 300 History of Ethics (4)
PHIL 303 Classical Philosophy (4)
PHIL 305 Modern Philosophy: 17th Century (2)
OR PHIL 306 Modern Philosophy: 18th Century (2)
PHIL 340 Symbolic Logic (3)

EMPHASIS IN SOCIOLOGY AND CRIMINAL JUSTICE (64 Credits)
Requirements (13 Credits)
In addition to the listed courses, students must complete the course requirements listed as “Core Requirements”, “Restricted Electives”, and “Related Requirements” under the B.A. Degree in Legal Studies.

CJ 335 Criminal Law (3)  
SOC 230 Social Psychology (3)  
SOC 307 Sociology of Courts (3)  
SOC 309 Law and Society (4)

See Biosciences

See Business

Mass Communications Department  
MacLean 200, (218) 477-2983  
Chair: C. Mark Strand  
Faculty: Marvin Bossart, Colan T. Hanson, Martin Grindeland, Wayne Gudmundson, Shelton Gunaratne, William Hall, Daniel Johnson, Jody Mattern, Regene Radniecki, Susanne Williams, Camilla Wilson

The major in Mass Communications balances the breadth of the liberal arts curriculum with the depth of professional mass communications courses. Majors complete 45 credits of Liberal Studies courses, 39 to 69 credits in mass communications (credits vary by choice of emphasis) and the remaining credits in electives. Students must earn 128 credits to graduate with at least 40 credits at the 300 – 400 level. The goal of the curriculum is to prepare a student for employment in the mass communications industry. Internships are strongly encouraged.

The Common Core (21 credits)  
All mass communications majors are required to complete a common core of coursework that includes mass communications theory, ethics, law and the development of verbal and visual storytelling skills.

The Professional Emphasis (18 – 48 credits)  
Students majoring in mass communications must complete one or more professional emphasis areas. Students may choose at least one emphasis in the areas including Advertising, Broadcast Journalism, Integrated Advertising and Public Relations, Online Journalism, Photojournalism, Print Journalism or Public Relations.

MC 400 Ethics and Issues and MC 401 Communications must be completed at MSUM, unless otherwise approved. Transfer and Tri-College University courses applied to the major must be approved in writing using MSUM’s Course Substitution document, appear in an articulated agreement between MSUM and another university or appear in the Minnesota Transfer Curriculum.

Advertising  
The Advertising Emphasis prepares students to research, create, write, design and produce ad messages and ad campaigns; buy and sell media; and to develop promotions to support advertising and marketing goals in an integrated marketing communications campaign.

Broadcast Journalism  
The Broadcast Emphasis prepares students to research, report, write, edit, photograph, produce and direct a newscast. Students produce stories for spot news, features and a television documentary. A student news workshop called Campus News is produced weekly and aired on the local PBS station - Prairie Public Television – during Spring semester each year.

Integrated Advertising and Public Relations  
The integrated advertising and public relations emphasis prepares students to research, create, write, design and produce advertising and public relations messages and campaigns; design, produce, and manage special events; and also to develop promotions to support the advertising, marketing and public relations goals in an integrated marketing communications campaign.

Photojournalism  
The photojournalism emphasis prepares students to investigate, report, photograph, develop, edit and produce photos for news storytelling feature documentaries. Students are involved in producing and publishing a photo-documentary each year.
Print Journalism
The print journalism emphasis prepares students to investigate, write, report, copy-edit and produce news, opinion-editorials and feature stories. Students publish stories in both campus and off-campus media outlets.

Public Relations
The public relations emphasis prepares students to research, create, write, design and produce public relations messages and campaigns; design and produce, and manage special events; and develop promotions to support marketing and public relations goals in an integrated marketing communications campaign.

Online Journalism
The online journalism emphasis prepares students to investigate, write, report, photograph, digitally edit photographs, copy-edit, design and produce content and formatting for online publications as well as Web sites. Students develop and produce an annual online publication for public consumption.

Dual Major: Mass Communications and English
The dual major in mass communications and English prepares students to research and write creative stories, news stories and fictional or non-fictional features. The dual major is available for those wishing to concentrate in writing and a student may choose to focus the writing experience to coincide with one’s interest[s] in advertising, public relations, print, broadcast, photo and online journalism.

Minor in Mass Communications
The minor in mass communications is designed to introduce students to mass communications and develop skills in verbal and visual storytelling for the media. Students can concentrate electives in a particular emphasis or may elect to take a broad range of electives.

Certificate in Publishing
English/Mass Communications
(Available Spring 2006)
The purpose of the Certificate in Publishing is to prepare students to work within the unique framework of the publishing industry, and to design and deliver an educational experience that allows students to learn about acquiring, editing, publishing and promoting new literature. As students at MSUM and as interns associated with New Rivers Press at MSUM, completing the certificate would develop a set of skills that will qualify a student for entry level employment in the publishing industry.

Please consult the department for further information.

STUDENT LEARNING OUTCOMES
Students will be able to:
• recognize the theoretical concepts in one’s chosen emphasis;
• demonstrate an understanding of the ethics governing one’s chosen emphasis;
• demonstrate verbal competency in one’s chosen emphasis;
• demonstrate visual competency in one’s chosen emphasis;
• demonstrate an ability to work collaboratively;
• demonstrate an ability to create a professional document that meets industry standards;
• demonstrate entry level competence in one’s chosen emphasis through successful completion of an internship or other professional field experience.

UPPER LEVEL WRITING REQUIREMENT
Students who complete all requirements for each respective emphasis area will have met the department’s approved upper level writing requirement. Designated upper level writing courses include: MC 306 Ad Copywriting, MC 307 Public Relations Processes, MC 308 Broadcast Journalism and MC 309 Reporting.

B.S. DEGREE IN MASS COMMUNICATIONS (39-69 Credits)
Core Requirements (21 Credits)
The core is required of all students who major in one of the Mass Communications emphases: Advertising, Public Relations, Integrated Advertising and Public Relations, Online Journalism, Broadcast Journalism, Photojournalism and Print Journalism.
MC 100 Introduction to Mass Communications (3)
MC 210 Media Writing (3)
MC 220 Desktop Publishing (3)
MC 230 Photography (3)
MC 300 International Communications (3)
OR MC 302 History of Mass Communications (3)
MC 400 Mass Media Ethics and Issues (3)
MC 401 Communications Law (3)

EMPHASIS IN ADVERTISING (57 Credits)
Core Requirements (21 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (36 Credits)
MC 251 Desktop Video (3)
MC 301 Online Advertising, News, and PR (3)
MC 303 Advertising Principles (3)
MC 304 Public Relations Principles (3)
MC 305 Imaging in Advertising and Public Relations (3)
MC 306 Advertising Copywriting (3)
MC 320 Layout and Typography (3)
MC 351 Interactive Online Communications (3)
MC 352 e-Communications (3)
MC 365 Media Planning (3)
MC 459 Advertising Campaign Research (3)
MC 460 Advertising Campaign Execution (3)

Recommended (0 Credits)
These courses are recommended, but not required.
MC 240 Radio Programming and Production (3)
MC 331 Photo Editing (3)
MC 353 Audio and Visual Online Production (3)
MC 415 Gender and Media (3)

EMPHASIS IN BROADCAST JOURNALISM (42 Credits)

Core Requirements (21 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (21 Credits)
Students are expected to earn at least three credits in MC 341.
MC 308 Broadcast Journalism (3)
MC 309 Reporting (3)
MC 341 Television News Writing (1-3)
MC 342 Television News Reporting (3)
MC 343 Television News Photography (3)
MC 344 Television News Video Editing (3)
OR MC 345 Television News Producing (2-3)
MC 440 Broadcast Documentary (3)

Recommended (0 Credits)
These courses are recommended, but not required.
MC 240 Radio Programming and Production (3)
MC 251 Desktop Video (3)
MC 272 Television Production (3)
MC 373 Radio/Television Performance (3)
MC 405 Computer Assisted Reporting (3)

EMPHASIS IN INTEGRATED ADVERTISING AND PUBLIC RELATIONS (69 Credits)

Core Requirements (21 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

Requirements (48 Credits)
MC 251 Desktop Video (3)
MC 301 Online Advertising, News, and PR (3)
MC 303 Advertising Principles (3)
MC 304 Public Relations Principles (3)
MC 305 Imaging in Advertising and Public Relations (3)
MC 306 Advertising Copywriting (3)
MC 307 Public Relations Processes (3)
MC 310 Copy Editing (3)
MC 320 Layout and Typography (3)
MC 351 Interactive Online Communications (3)
MC 352 e-Communications (3)
MC 365 Media Planning (3)
MC 375 Case Studies in Organizational Public Relations (3)
MC 423 Marketing Communications (3)
MC 459 Advertising Campaign Research (3)
AND MC 460 Advertising Campaign Execution (3) OR MC 470 Public Relations Campaign Research (3) AND MC 471 Public Relations Campaign Execution (3)

Recommended (0 Credits)
These courses are recommended, but not required.
MC 272 Television Production (3)
MC 415 Gender and Media (3)
MC 427 Public Relations Fundraising (3)

**EMPHASIS IN ONLINE JOURNALISM**
*(63 Credits)*

**Core Requirements (21 Credits)**
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

**Requirements (42 Credits)**
- MC 251 Desktop Video (3)
- MC 301 Online Advertising, News, and PR (3)
- MC 305 Imaging in Advertising and Public Relations (3)
- MC 308 Broadcast Journalism (3)
- MC 309 Reporting (3)
- MC 310 Copy Editing (3)
- MC 320 Layout and Typography (3)
- MC 331 Photo Editing (3)
- MC 343 Television News Photography (3)
- MC 344 Television News Video Editing (3)
- MC 351 Interactive Online Communications (3)
- MC 352 e-Communications (3)
- MC 405 Computer Assisted Reporting (3)
- MC 492 Online Journalism Workshop (3)

**Recommended (0 Credits)**
These courses are recommended, but not required.
- CSIS 101 Introduction to the Internet (2)
- MC 330 Photojournalism (3)
- MC 415 Gender and Media (3)
- MC 420 Multimedia Communications (3)

**EMPHASIS IN PHOTOJOURNALISM**
*(42 Credits)*

**Core Requirements (21 Credits)**
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

**Requirements (21 Credits)**
Students are required to enroll in MC 430 twice and will apply a maximum of six credits toward the photojournalism concentration.
- MC 308 Broadcast Journalism (3)
- **OR** MC 309 Reporting (3)
- MC 320 Layout and Typography (3)
- MC 330 Photojournalism (3)
- MC 343 Television News Photography (3)
- MC 331 Photo Editing (3)
- **OR** MC 344 Television News Video Editing (3)
- MC 430 Documentary Photography (3)

**EMPHASIS IN PRINT JOURNALISM** *(39 Credits)*

**Core Requirements (21 Credits)**
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.

**Requirements (18 Credits)**
- MC 309 Reporting (3)
- MC 310 Copy Editing (3)
- MC 320 Layout and Typography (3)
- MC 330 Photojournalism (3)
- MC 405 Computer Assisted Reporting (3)
- MC 406 Feature Writing (3)

**EMPHASIS IN PUBLIC RELATIONS** *(60 Credits)*

**Core Requirements (21 Credits)**
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mass Communications.
Requirements (39 Credits)
MC 251 Desktop Video (3)
MC 301 Online Advertising, News, and PR (3)
MC 303 Advertising Principles (3)
MC 304 Public Relations Principles (3)
MC 305 Imaging in Advertising and Public Relations (3)
MC 307 Public Relations Processes (3)
MC 310 Copy Editing (3)
MC 320 Layout and Typography (3)
OR MC 330 Photojournalism (3)
MC 351 Interactive Online Communications (3)
MC 352 e-Communications (3)
MC 375 Case Studies in Organizational Public Relations (3)
MC 470 Public Relations Campaign Research (3)
MC 471 Public Relations Campaign Execution (3)

Recommended (0 Credits)
These courses are recommended, but not required.
MC 240 Radio Programming and Production (3)
MC 308 Broadcast Journalism (3)
MC 309 Reporting (3)
MC 331 Photo Editing (3)
MC 353 Audio and Visual Online Production (3)
MC 415 Gender and Media (3)
MC 427 Public Relations Fundraising (3)

MINOR IN MASS COMMUNICATIONS
(27 Credits)
Requirements (12 Credits)
MC 100 Introduction to Mass Communications (3)
MC 210 Media Writing (3)
MC 220 Desktop Publishing (3)
MC 230 Photography (3)

Restricted Electives (6 Credits)
Students must choose two courses from the following list.
MC 300 International Communications (3)
MC 302 History of Mass Communications (3)
MC 400 Mass Media Ethics and Issues (3)
MC 401 Communications Law (3)

Electives (9 Credits)
Students must choose nine credits of Mass Communications electives.

B.A. DEGREE IN ENGLISH AND MASS COMMUNICATIONS (69 Credits)
Requirements (37 Credits)
ENGL 211 Major British Writers I (4)
ENGL 212 Major British Writers II (4)
ENGL 371 Survey of American Literature I (4)
ENGL 372 Survey of American Literature II (4)
MC 100 Introduction to Mass Communications (3)
MC 210 Media Writing (3)
MC 220 Desktop Publishing (3)
MC 230 Photography (3)
MC 300 International Communications (3)
OR MC 302 History of Mass Communications (3)
MC 400 Mass Media Ethics and Issues (3)
MC 401 Communications Law (3)

Restricted Electives (13 Credits)
Students must choose ten credits from the listed English courses and must also choose a three credit mass communications course from those listed.
ENGL 285 Scriptwriting (4)
ENGL 286 Practical Writing (3)
ENGL 288 Introduction to Creative Writing (3)
ENGL 354 Non Fiction Writing (3)
ENGL 387 Technical Report Writing (4)
ENGL 388 Creative Writing (3)
ENGL 395 Theory and Methods of Tutoring (3)
ENGL 487 Advanced Technical Report Writing (4)
MC 306 Advertising Copywriting (3)
OR MC 307 Public Relations Processes (3)
OR MC 308 Broadcast Journalism (3)
OR MC 309 Reporting (3)

Electives (19 Credits)
Students must take 10 elective credits in English courses and 9 elective credits in Mass Communications courses. At least nine of the English elective credits must be at the 300 level or above. Further, at least one course must be in American literature and at least one course must be in British literature. The English electives should be chosen in close consultation with an advisor from the English department. The Mass Communications electives must also be chosen in close consultation with a faculty advisor in the Mass Communications department.

Mathematics Department
MacLean 362, (218) 477-2274
Chair: Don Mattson

The Bachelor of Arts (B.A.) degree in mathematics is designed to prepare students to enter graduate school in mathematics or other disciplines that require a strong background in mathematics. This degree is also appropriate for students seeking a solid liberal arts degree that will enable them to be successful in a wide variety of careers.

The Bachelor of Science (B.S.) degree in mathematics is a professional degree with three different emphases:

Teaching Emphasis
This emphasis is for students who intend to teach mathematics at the middle school or high school level. In addition to the requirements in the Mathematics Department, students must complete the “Professional Education Sequence” of courses required for Teaching Licensure.

Computational Emphasis
This emphasis is for students who wish to prepare themselves for industrial careers that involve problem solving using computer technology.

Actuarial Science Emphasis
This emphasis will help prepare students to become actuaries. The professional services of actuaries are needed in areas of insurance and employee benefit programs. Actuaries are required to have an understanding of the mathematical structure underlying insurance and pensions, and thus must have a strong background in mathematics, statistics and business.

Students who major in mathematics often declare a minor in a second field such as biology, chemistry, physics, computer science, or business. Minors in mathematics are available to complement any major.

MATHEMATICS PLACEMENT EXAM
Minnesota State University Moorhead requires each student (except those who enter with a two year degree) to complete a college level mathematics course prior to graduation. Many major areas include specific mathematics requirements as well. But in recent years increasing numbers of students have struggled in entry-level courses. The Mathematics Department at MSUM is committed to increasing student success. Accordingly, the following steps have been implemented:

- Entering freshmen are required to complete a 30 minute Intermediate Algebra Skills Test (except for those with ACT mathematics scores of 24 or higher or equivalent scores on other entrance exams);
- Students will be allowed to register for appropriate test;
- Students whose skills need improvement will be required to take a developmental mathematics class in the Mathematics Learning Center prior to entering college-level mathematics courses.

This practice is consistent with that of other area universities and is aimed at placing students in courses where they have a reasonable chance of success. Students who complete a developmental course successfully should then have a sufficiently strong background to succeed in subsequent college-level courses.

STUDENT LEARNING OUTCOMES
Students should:
- understand the theory and applications of calculus and linear algebra;
- develop the capacity for rigorous analytical thought and the ability to communicate ideas in a precise manner;
• possess an awareness of the abstract nature of theoretical mathematics and the ability to write proofs;
• possess an understanding of the breadth of the mathematical sciences and their deep inter-connecting principles;
• be able to solve multi-step problems and perform complex tasks;
• develop the ability to detect basic mathematical structures (patterns) and make generalizations from them.

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

B.A. DEGREE IN MATHEMATICS (44 Credits)
Requirements (28 Credits)
All majors must complete the ETS Major Field Test in Mathematics.
MATH 260 Computer Calculus (1)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 327 Introduction to Linear Algebra (3)
MATH 361 Intermediate Analysis I (4)
MATH 362 Intermediate Analysis II (3)
MATH 476 Abstract Algebra I (4)
MATH 491 Seminar: Mathematics (1-2)

Restricted Electives (12 Credits)
Students must take twelve credits of electives in mathematics. All electives must be at the 300 level or higher. MATH 303, 304, 306, 316, 401, 406, 416, and 486 may not be counted among the twelve required electives.

Related Requirements (4 Credits)
CSIS 150 Introduction to Computers and Programming I (4)

MINOR IN MATHEMATICS (25 Credits)
Requirements (13 Credits)
MATH 260 Computer Calculus (1)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)

Restricted Electives (12 Credits)
Students must take twelve credits of electives in mathematics. These electives must be at the 300 level or higher and may not include MATH 303, 304, 306, 316, 401, 406, and 416.

B.S. DEGREE IN MATHEMATICS (51-75 Credits)
Core Requirements (19 Credits)
All majors must complete the ETS Major Field Test in Mathematics.
MATH 260 Computer Calculus (1)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 327 Introduction to Linear Algebra (3)
MATH 335 Intermediate Probability and Statistics I (3)

EMPHASIS IN ACTUARIAL SCIENCE
(57 Credits)
Core Requirements (19 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mathematics.

Requirements (16 Credits)
MATH 336 Intermediate Probability and Statistics II (4)
MATH 421 Actuarial Science I (3)
MATH 435 Mathematical Statistics I (4)
MATH 491 Seminar: Mathematics (1-2)
MATH 361 Intermediate Analysis I (4)
OR MATH 450 Numerical Analysis I (4)

Related Requirements (22 Credits)
ACCT 230 Principles of Accounting I (3)
ACCT 231 Principles of Accounting II (3)
CSIS 150 Introduction to Computers and Programming I (4)
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
FINC 340 Financial Management (3)
FINC 360 Principles of Investment (3)

EMPHASIS IN COMPUTATION (51 Credits)

Core Requirements (19 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mathematics.

Requirements (15 Credits)
MATH 355 Mathematical Modeling (3)
MATH 361 Intermediate Analysis I (4)
OR MATH 435 Mathematical Statistics I (4)
MATH 366 Differential Equations (3)
MATH 450 Numerical Analysis I (4)
MATH 491 Seminar: Mathematics (1-2)

Restricted Electives (3 Credits)
Students must take three credits in mathematics at the level of MATH 300 or higher and may not include MATH 303, 304, 306, 316, 401, 406, 416, and 486.

Related Requirements (14 Credits)
Students must take fourteen credits of approved Computer Science and Information Systems courses which include the following courses:
CSIS 150 Introduction to Computers and Programming I (4)
CSIS 151 Introduction to Computers and Programming II (4)
CSIS 335 Graphical User Interface Programming (3)

EMPHASIS IN TEACHING (75 Credits)

Core Requirements (19 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Mathematics.

Requirements (20 Credits)
Students in this emphasis must fulfill all teacher licensure requirements which will add thirty-three credits to the major.
MATH 316 Teaching Mathematics in the Middle Grades (3)
MATH 361 Intermediate Analysis I (4)
MATH 385 Foundations of Geometry (3)
MATH 416 Mathematics in the Secondary School (3)
MATH 476 Abstract Algebra I (4)
MATH 486 History of Mathematics (3)

Restricted Electives (3 Credits)
Students must take three elective credits in mathematics. These electives must be at the 300 level or higher and may not include MATH 303, 304, 306, 401, and 406.

MINOR IN MATHEMATICS- TEACHING (25 Credits)

Requirements (19 Credits)
MATH 260 Computer Calculus I (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 316 Teaching Mathematics in the Middle Grades (3)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 416 Mathematics in the Secondary School (3)

Restricted Electives (6 Credits)
Students must take two of the following three courses.
MATH 327 Introduction to Linear Algebra (3)
MATH 335 Intermediate Probability and Statistics I (3)
MATH 385 Foundations of Geometry (3)

MINOR IN MATHEMATICS: ELEMENTARY EDUCATION MAJOR (20-23 Credits)

Requirements (14-15 Credits)
This minor does not satisfy State of Minnesota licensure requirements. It may provide an opportunity for licensure in other states. This minor is a concentration for Elementary Education majors. MATH 303, 304, and 406 are part of the elementary education major and,
thus, these courses are not listed among the requirements for this minor.
MATH 316 Teaching Mathematics in the Middle Grades (3)
MATH 236 Applied Statistics (4)
OR MATH 335 Intermediate Probability and Statistics I (3)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)

Restricted Electives (6-8 Credits)
Students must take two of the three courses listed. Students who choose MATH 323 must take MATH 260 as a co-requisite.
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 327 Introduction to Linear Algebra (3)
MATH 385 Foundations of Geometry (3)

See Biosciences

See American Multicultural Studies

Corrick Center for General Education
Murray Commons 206, (218) 477-2954
Director: Dennis Jacobs
Faculty: Timothy Decker, Yahya Frederickson, Jarilyn Gess, Margaret Klindworth, Rupa Mitra, Carol Okigbo, Elizabeth Rowse, Patrick Walsh, Kevin Zepper

Multidisciplinary Studies offers Liberal Studies courses to meet B.A., B.S., and A.A. graduation requirements. See the Admissions Section of this Bulletin for information on the Corrick Center for General Education.

STUDENT LEARNING OUTCOMES
Students will:
• demonstrate fluency in reading, writing, and mathematical problem solving;
• demonstrate critical thinking;
• demonstrate understanding of knowledge from historical perspectives;
• demonstrate awareness of ecological concerns;
• demonstrate an understanding of cultural diversity.

Music Department
Roland Dille Center for the Arts 102, (218) 477-2101
Chair: Thomas Strait
Faculty: Laurie Blumsom, Allen Carter, Nathan Davis, Glenn Ginn, Henry Gwiazda, James Harley, Ryan Jackson, Terrie Manno, Michael Missiras, Kirk Moss, Paul Neshem, Jenny Olson, Rodney Rothlisberger, Simon Rowe, John Tesch, Kenyon Williams

Degree Programs
The Bachelor of Music, Bachelor of Arts, and the Bachelor of Science are the degrees awarded in Music.
The Bachelor of Arts with a major in music is designed for the student who seeks a general focus on music within a broadly based liberal arts framework. It is a flexible degree allowing a variety of interest concentrations. It is sometimes combined with a major in another area such as English, History, or Psychology.
The Bachelor of Music degree with a major in Performance or Composition begins to prepare students for professional careers or graduate study. Students choose one of the performance options: keyboard, voice, wind instrument, stringed instrument, percussion, or composition. In all options except composition, students may elect an emphasis in Jazz and Studio Music.
The Bachelor of Music with a major in Music Industry provides exposure to some broad career areas of the music industry such as marketing, management, merchandising, audio production, computer applications, and entertainment and media arts. Students choose one of the four emphases for this major: Music Business, Computer Music, Digital Imaging/Audio, or Film/Video Music.
The Bachelor of Science degree with a major in Music Education is designed for the student who will pursue a career in public school teaching. Students specialize in vocal or instrumental music education.

**New Students**
Students entering a major program in Music should show a strong sensitivity to music and have a desire to communicate it to others. Entering students are assumed to have acquired basic music reading ability and performance experience in school groups and/or as soloists. Those lacking such background may have to complete additional preparation, which may extend the time for program completion and graduation.

**Transfer Students**
Students transferring from music programs in other institutions will be evaluated upon entrance for advanced placement in their chosen degree program.

**PERFORMANCE AND PROFICIENCY REQUIREMENTS**

**Primary Performance Medium**
All music major programs require students to choose a primary performance medium. The number of required credits of performance study with this medium and the level of proficiency to attain varies with each program.

**Secondary Performance Medium**
The Composition major, Keyboard Performance major, and Music Industry major must also study a secondary performance area for completion of their program. For Composition majors and Music Industry majors, piano will be either the primary or secondary performance area.

**Piano Performance Study**
All major programs have a requirement for piano study. The number of required credits and level of proficiency to attain varies with each program. Upon entry to the music program, students are evaluated and placed in a piano course appropriate to their skill level. Credits for Class Piano I and II (MUS 150A and MUS 150B) do not count as piano performance study. Credits for Class Piano III and IV (MUS 150C and MUS 150D and MUS 151) are counted toward piano performance requirements.

**Piano Proficiency**
All Bachelor of Science in Music Education majors are required to pass a piano proficiency examination demonstrating prescribed keyboard skills. These examinations are offered at the end of each semester. Students usually take the exam after two years of piano performance study. Once the Piano Proficiency is passed, any remaining Piano Performance requirements may be waived. Bachelor of Music in Music Industry majors must pass MUS 151 (Basic Commercial Keyboard) in fulfillment of the piano proficient requirements. Piano proficiency requirements for other music degrees vary with each degree.

**Guitar Proficiency**
All Music Education majors are required to pass a proficiency exam demonstrating basic guitar techniques. Successful completion of the course MUS 236, Guitar for General Music, will satisfy the proficiency. Students with prior guitar experience may wish to be tested individually and be exempt from the class requirement.

**Upper-Level Performance Study**
Performance and composition study areas indicate levels of proficiency through the course numbers. The 100 and 200 levels are lower-division courses; the 300 and 400 levels are upper-division courses and indicate advanced skills and knowledge of repertoire. The course levels do not necessarily correspond with the year of enrollment. The Performance Study instructors have guidelines suggesting appropriate literature and skills for each level.

Advancement to the upper-division level is required for students in the Performance, Composition, and Music Education programs and must be attained prior to presenting any recital required by the program. Enrollment in upper-division levels is allowed after a jury evaluation and recommendation. These evaluations take place at specified times each semester. Performance majors usually apply for upper-division level after fall semester of the sophomore year. Composition and Music Education majors normally apply after spring semester of the sophomore year. The jury may deny advancement to upper-division level and recommend further study after which the student may reapply for upper-division status.

**Recitals**
Bachelor of Music Performance majors are required to present two recitals in their primary performance area - a half recital normally given during the junior year and a full recital during the senior year. Bachelor of Music Composition majors are required to present a full recital of their work during the senior year. Bachelor of Science Music Education majors are required to present a half recital in their primary performance area normally given during the student’s senior year.

All recitals are prepared with the help of the applied instructor. Procedures for presenting recitals are available in the Music Department Office.

**Lesson Fees**
There is a fee charged for Performance Study, Composition, and Recital credits. This is in addition to the tuition fee.

**Ensemble Participation**
It is assumed that music majors will participate in an ensemble every semester until all the requirements for their music program have been completed.
Grade Policy
Students must earn a grade of “C-” or better in any course which is a part of the required curriculum for their major program including the related requirements that are not music courses.

Concert and Convocation Attendance Requirement
All full-time music majors are required to attend a certain number of concerts or recitals and departmental convocations per semester.

STUDENT LEARNING OUTCOMES

Performance: Students must develop:
• technical skills requisite for artistic self-expression at the level appropriate for the particular music concentration;
• the ability to read at sight with fluency;
• rehearsal and conducting skills sufficient to work as a leader and in collaboration on matters of musical interpretation.

Aural Skills, Analysis, Composition: Students must develop:
• an understanding of the common elements and organizational patterns of music and their interaction, and the ability to employ this understanding in aural, verbal, and visual analyses;
• sufficient knowledge of musical forms, processes, and structures to use this knowledge in the requisites of their specializations;
• the ability to place music in historical, cultural, and stylistic contexts.

Composition and Improvisation: Students must develop:
• composition and improvisation skills beyond traditional exercises in beginning theory.

Repertory and History: Students must have:
• opportunities through performance and academic studies to work with music of diverse cultural sources, historical periods, and media;
• exposure to a large and varied body of music through attendance at recitals, concerts, operas, and other performances.

Technology: Through study and laboratory experience, students should be:
• familiar with the capabilities of technology as they relate to composition, performance, analysis, teaching, and research.

Synthesis: While synthesis is a lifetime process, by the end of undergraduate study students should be:
• working independently on a variety of musical problems by combining their capabilities in performance; aural, verbal and visual analysis; composition and improvisation; and repertory and history;
• forming and defending value judgments about music;
• acquiring the tools to work with a comprehensive repertory, including music from various cultures of the world and music of their own time;
• understanding basic interrelationships and interdependencies among the various professions and activities that constitute the musical enterprise.

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

CORE REQUIREMENTS IN MUSIC (28 Credits)
This common core of courses is required for all baccalaureate degrees in Music.
MUS 107 Foundations for Music Majors (3)
MUS 108 Theory and Ear Training I (3)
MUS 207 Theory and Ear Training II (3)
MUS 208 Theory and Ear Training III (3)
MUS 209 Survey of Non-Western Music (2)
MUS 300 Conducting and Instrumentation (2)
MUS 303 Western Traditions to 1750 (3)
MUS 304 Western Traditions: 1750-1900 (3)
MUS 305 Western Traditions since 1900 (3)
MUS 307 Theory and Ear Training IV (3)

B.A. DEGREE IN MUSIC (67-68 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (15-16 Credits)
In addition to the courses listed, students must earn six credits in ensemble and six credits in performance study, two credits of which
must be at the 200 level or above. At least one credit must be piano performance or Class Piano III. All students must pass a piano proficiency exam.

MUS 240 American Music (3)
OR MUS 342 History of Rock/Pop Music (2)
OR MUS 343 Jazz History (2)
MUS 391 Writing Seminar in Music (1)

Restricted Electives (3 Credits)
Students must earn at least three credits in Music electives (any course with a MUS rubric).

Related Requirements (21 Credits)
Students must earn at least twenty-one credits in courses with a liberal arts focus in addition to the requirements of the MSUM Liberal Studies program and the previously listed BA requirements and electives. These courses can be selected from University designated Liberal Studies courses and/or from other courses approved by the Music department. A list of acceptable courses is maintained in the Music department.

B.M. DEGREE IN MUSIC INDUSTRY
(78-82 Credits)

EMPHASIS IN MUSIC BUSINESS (79-80 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (31-32 Credits)
In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or higher; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. A minimum of three credits of internship (MUS 469) are to be earned. Since the internship component for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)
OR MUS 342 History of Rock/Pop Music (2)
OR MUS 343 Jazz History (2)
MUS 261 Music Industry Survey I (2)
MUS 262 Music Industry Survey II (2)
MUS 365 Practicum (1)
MUS 381 Audio Production I (3)
MUS 461 Senior Seminar: Current Issues in the Music Industry (2)
MUS 469 Internship (3-12)

Restricted Electives (5 Credits)
Students must earn five credits from the following list.
MUS 364 Survey of Film Music (3)
MUS 384 Concert Recording and Sound Reinforcement (2)
MUS 481 Audio Production II (2)
MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)
MUS 485 Projects in Audio Production (1-2)

Related Requirements (15 Credits)

ACCT 230 Principles of Accounting I (3)
ACCT 231 Principles of Accounting II (3)
MGMT 360 Principles of Management (3)
MKTG 310 Principles of Marketing (3)
MGMT 405 Small Business Management (3)
OR MKTG 423 Marketing Communications (3)

EMPHASIS IN COMPUTER MUSIC
(78-79 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (36-37 Credits)
In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or above; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. A minimum of three credits of internship (MUS 469) and one credit of MUS 486 are to be earned. Since the internship component for this program
is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 365 Practicum (1)

MUS 382 Digital Audio I (3)

MUS 384 Concert Recording and Sound Reinforcement (2)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

MUS 482 Digital Audio II (2)

MUS 486 Projects in Synthesis (1-2)

Related Requirements (14 Credits)

CSIS 150 Introduction to Computers and Programming I (4)

CSIS 151 Introduction to Computers and Programming II (4)

CSIS 257 Object-Oriented Software Development (3)

OR CSIS 345 Analysis and Design of Information Systems (3)

CSIS 360 UNIX Programming and Development Tools (3)

EMPHASIS IN AUDIO PRODUCTION AND DIGITAL IMAGING/MULTIMEDIA (78-79 Credits)

Core Requirements (28 Credits)

Students must complete the courses listed as “Core Requirements in Music.”

Requirements (17-38 Credits)

In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or above; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. At least three credits of internship (MUS 469) and at least one credit of MUS 485 are to be earned. Music majors must take MUS 108 as a prerequisite for MUS 381 and 382. Non-music majors must take MUS 110 or 111 or 218 as a prerequisite for MUS 381 and 382. Since the internship component for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 365 Practicum (1)

MUS 381 Audio Production I (3)

MUS 382 Digital Audio I (3)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

MUS 481 Audio Production II (2)

MUS 486 Projects in Audio Production (1-2)

Related Requirements (13 Credits)

All students must take CSIS 150 and choose appropriate courses from the list below depending on their interest. Students who pursue an interest in Digital Imaging must take GCOM 255 and 355 and one course chosen from GCOM 366, 368, 455 and 457. Students with an interest in Multimedia must take GCOM 266, 366, and 368.

CSIS 150 Introduction to Computers and Programming I (4)

GCOM 255 Beginning Computer Graphics (3)

GCOM 266 Introduction to Multimedia (3)

GCOM 355 Intermediate Computer Graphics (3)

GCOM 366 Web Authoring with Dreamweaver (3)

GCOM 368 Multimedia Authoring with Flash (3)

GCOM 455 Advanced Computer Graphics (3)

GCOM 457 Digital Prepress (3)

EMPHASIS IN FILM/VIDEO MUSIC (81-82 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

**Requirements (37-38 Credits)**
In addition to the courses listed, students must earn seven credits in ensembles; seven credits in the primary performance area, two of which must be at the 200 level or above; and two credits in a secondary performance area. Either the primary or secondary performance area must be piano. Class Piano III and MUS 151 may be counted as piano performance study. A minimum of three credits of internship (MUS 469) are to be earned. Since the internship component for this program is an intense study experience and may be assigned in a location other than Fargo-Moorhead, students may need one semester of study beyond four years, or enrollment in a summer session to complete this program.

- **MUS 240 American Music (3)**
  - **OR** MUS 342 History of Rock/Pop Music (2)
  - **OR** MUS 343 Jazz History (2)
- **MUS 261 Music Industry Survey I (2)**
- **MUS 262 Music Industry Survey II (2)**
- **MUS 363 Music for Film and Multimedia (3)**
- **MUS 364 Survey of Film Music (3)**
- **MUS 365 Practicum (1)**
- **MUS 381 Audio Production I (3)**
- **MUS 382 Digital Audio I (3)**
- **MUS 461 Senior Seminar: Current Issues in the Music Industry (2)**
- **MUS 469 Internship (3-12)**

**Related Requirements (16 Credits)**
- **CSIS 150 Introduction to Computers and Programming I (4)**
- **FILM 272 Video Production (3)**
- **FILM 284 Beginning Filmmaking (3)**
- **FILM 384 Techniques of Film Directing (3)**
- **FILM 484 Sixteen Millimeter Film Production (3)**

**B.M. DEGREE IN MUSIC PERFORMANCE (83-92 Credits)**

**OPTION IN COMPOSITION (83-84 Credits)**

**Core Requirements (28 Credits)**
Students must complete the courses listed as “Core Requirements in Music.”

**Requirements (51-52 Credits)**
In addition to the courses listed, students must earn six credits in ensembles; sixteen credits in composition courses, at least six of which must be at the 300 level or above; eight credits of performance study in the primary performance area and three credits of performance study in a secondary area. Either the primary or secondary performance area must be piano. Class Piano III and IV may be counted as piano performance study. A piano proficiency exam must be passed.

- **MUS 240 American Music (3)**
  - **OR** MUS 342 History of Rock/Pop Music (2)
  - **OR** MUS 343 Jazz History (2)
- **MUS 375 Instr Conducting (2)**
- **MUS 377 Choral Conducting (2)**
- **MUS 381 Audio Production I (3)**
- **MUS 382 Digital Audio I (3)**
- **MUS 391 Writing Seminar in Music (1)**
- **MUS 450 Student Recital (1)**
- **MUS 471 Orchestration (2)**
- **MUS 482 Digital Audio II (2)**

**Restricted Electives (4 Credits)**
Students must earn four credits of music electives. These credits cannot be in composition study. One credit can be an additional ensemble.

**OPTION IN JAZZ AND STUDIO MUSIC (83 Credits)**

**Core Requirements (28 Credits)**
Students must complete the courses listed as “Core Requirements in Music.”

**Requirements (51 Credits)**
In addition to the courses listed, students must earn sixteen credits of performance study on the principal instrument, at least twelve of
which must be at the 300 level or above; one credit of piano performance study or Class Piano III; eight credits of large instrumental ensemble; and four credits in small instrumental ensemble. Four credits of MUS 472 are required, and two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 250 Jazz Improvisation (1)
MUS 252 Advanced Jazz Improvisation (2)
MUS 278 Jazz Theory (2)
MUS 343 Jazz History (2)
MUS 351 Commercial Keyboards (1)
MUS 381 Audio Production I (1)
MUS 391 Writing Seminar in Music (1)
MUS 433 Jazz Pedagogy (2)
MUS 450 Student Recital (1)
MUS 472 Instrumental Arranging (2)
MUS 481 Audio Production II (2)

Restricted Electives (4 Credits)
Students must choose four credits from the listed courses. Any student who wishes to repeat MUS 484, 485, or 486 must first obtain the permission of the department chair.

MUS 240 American Music (3)
MUS 342 History of Rock/Pop Music (2)
MUS 364 Survey of Film Music (3)
MUS 382 Digital Audio I (3)
MUS 482 Digital Audio II (2)
MUS 484 Projects in Sound Reinforcement and Concert Recording (1-2)
MUS 485 Projects in Audio Production (1-2)
MUS 486 Projects in Synthesis (1-2)

OPTION IN KEYBOARD PERFORMANCE
(83-84 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (43-44 Credits)
In addition to the courses listed, students must earn eighteen credits of performance study on the principal keyboard instrument, twelve of which must be at the 300 level or above; one credit of secondary keyboard performance study; four credits of non-keyboard performance study; and ten credits of ensemble or accompanying, with no more than six credits in either area. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 240 American Music (3)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 375 Instr Conducting (2)

OR MUS 377 Choral Conducting (2)

MUS 391 Writing Seminar in Music (1)

MUS 431A Keyboard Pedagogy I (2)

MUS 431B Keyboard Pedagogy II (1)

MUS 450 Student Recital (1)

Restricted Electives (12 Credits)
Students must earn four credits in music electives with non-performance focus, but related to the principle instrument and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must earn five credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). The remaining three credits cannot be performance study or ensemble with the principle instrument.

OPTION IN VOICE PERFORMANCE
(91-92 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (42-43 Credits)
In addition to the courses listed, students must earn eighteen credits of voice performance study, twelve of which must be at the 300 level or above; four credits of piano performance study which may include Class Piano III and/or IV; and eleven credits of ensemble, seven of which involve large ensembles, one with small ensemble, and three with unrestricted ensembles. Two credits of MUS 450 are required. A piano proficiency exam must be passed.

MUS 191 Diction (2)

MUS 240 American Music (3)
OR MUS 342 History of Rock/Pop Music (2)
OR MUS 343 Jazz History (2)
MUS 377 Choral Conducting (2)
MUS 391 Writing Seminar in Music (1)
MUS 450 Student Recital (1)

Restricted Electives (13 Credits)
Students must earn four credits in music electives with non-performance focus, but related to the voice and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must earn six credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). The remaining three credits cannot be voice performance study or vocal ensemble.

Related Requirements (8 Credits)
Students must take one year of a foreign language, or demonstrate competency at the first year level.

OPTION IN WIND INSTRUMENT, STRING INSTRUMENT, OR PERCUSSION PERFORMANCE (83-84 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (41-42 Credits)
In addition to the courses listed, students must earn eighteen credits of performance study on the principal instrument, twelve of which must be at the 300 level or above; four credits of piano performance study which may include Class Piano III and/or IV; and twelve credits of ensemble, eight of which are large ensembles, one with small ensemble, and three with unrestricted ensembles. Two credits of MUS 450 are required. A piano proficiency exam must be passed.
MUS 240 American Music (3)
OR MUS 342 History of Rock/Pop Music (2)
OR MUS 343 Jazz History (2)
MUS 375 Instr Conducting (2)
MUS 391 Writing Seminar in Music (1)
MUS 450 Student Recital (1)

Restricted Electives (14 Credits)
Students must earn five credits in music electives with non-performance focus, but related to the principal instrument and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must earn six credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). The remaining three credits cannot be performance study or ensemble with the principal instrument.

B.S. DEGREE IN MUSIC EDUCATION - TEACHING
(97-101 Credits)

OPTION IN INSTRUMENTAL MUSIC EDUCATION (97 Credits)

Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (35 Credits)
Students in this major must pass piano and guitar proficiency exams and present a recital. A student teaching qualifying exam, taken the semester prior to application to student teaching, must be passed before a student teaching assignment is arranged. Due to the student teaching internship and state-mandated licensure components for this degree, there are more credits required than the 128 ordinarily needed for a Bachelor’s of Science degree. Usually students will need one semester beyond four years or enrollment in one or more summer sessions to complete this degree. In addition to the courses listed, students must earn twelve credits of performance study on the principal instrument, two of which must be at the 300 level or above; two credits of piano performance study which may include Class Piano III and/or IV; and seven credits of instrumental ensemble, two credits minimum for large ensembles and two credits minimum for small ensembles. Students must also earn one credit in an independent study course or a music topics course related to Music Education.
MUS 231 Methods for Teaching Woodwinds I (1)
MUS 232 Methods for Teaching Woodwinds II (1)
MUS 233 Methods for Teaching Brass Instruments (1)
MUS 234 Methods for Teaching String Instruments (1)
MUS 235 Methods for Teaching Percussion (1)
MUS 236 Guitar for General Music (1)
MUS 333 Teaching General Music K-12 (3)
MUS 335 Organization of the Instrumental Music Program (1)
MUS 375 Instr Conducting (2)
MUS 450 Student Recital (1)
Restricted Electives (1 Credit)
Students must earn one credit in additional instrumental techniques study. This is arranged as a special secondary performance study credit on an instrument from one of the methods classes.

Related Requirements (33 Credits)
Students must meet all teacher licensure requirements for this major.

OPTION IN VOCAL MUSIC EDUCATION
(101 Credits)
Core Requirements (28 Credits)
Students must complete the courses listed as “Core Requirements in Music.”

Requirements (32 Credits)
Students in this major must pass piano and guitar proficiency exams and present a recital. A student teaching qualifying exam, taken the semester prior to application to student teaching, must be passed before a student teaching assignment is arranged. Due to the student teaching internship and state-mandated licensure components for this degree, there are more credits required than the 128 ordinarily needed for a Bachelor’s of Science degree. Usually students will need one semester beyond four years or enrollment in one or more summer sessions to complete this degree. In addition to the courses listed, students must earn nine credits of voice performance study, two of which must be at the 300 level or above; four credits of piano performance study which may include Class Piano III and/or IV; and seven credits of vocal ensemble. Students must also earn one credit in an independent study course or a music topics course related to Music Education. Students must enroll for one credit of vocal performance study each semester that they have full-time status, and register for two credits during the semester that they perform their recital. Students must participate in a vocal ensemble each semester that they have full-time status, with the exception of the semester in which they do their student teaching.

MUS 191 Diction (2)
MUS 236 Guitar for General Music (1)
MUS 333 Teaching General Music K-12 (3)
MUS 334 Secondary School Choral Methods (2)
MUS 377 Choral Conducting (2)
MUS 450 Student Recital (1)

Restricted Electives (4 Credits)
Students must complete four credits in this section. In addition to the course choices listed, a maximum of two credits of the Opera Workshop are allowed (MUS 329A-H or MUS 421; these credits are in addition to the seven credits of required ensemble).
MUS 432 Voice Pedagogy (2)
MUS 440 Music Literature: Solo Song (2)
MUS 442 Music Literature: Choral (2)

Related Requirements (37 Credits)
Students must complete at least one semester of foreign language study (4 credits). Students must meet all teacher licensure requirements for this major.

MINOR IN MUSIC (24 Credits)

Requirements (16 Credits)
In addition to the courses listed, students must earn four credits of ensemble and four credits of performance study, one of which must be at the 200 level or above. At least one credit of performance study, one credit of ensemble, and two credits from the required or elective credits listed below (or an approved substitute) must be taken at MSUM.
All students must pass a piano proficiency exam.
MUS 110 Musicianship for Non-Majors (2)
MUS 111 The Art of Listening (3)
MUS 210 Survey of Western Music (3)

Restricted Electives (8 Credits)
Students must complete one of the courses listed. The remaining five credits can be chosen from any course with a MUS rubric.
MUS 215 History of Jazz (3)
MUS 216 World Music Survey (3)
MUS 217 Pop/Rock Music for Non-Majors (3)
MUS 240 American Music (3)

Nursing Department
Murray Commons, (218) 477-2693
Director: Barbara Matthees
Faculty: Jane Bergland, Jane Giedt, Helen Harris, Donna Heald, Carolyn Townsend, Barbara Vellenga

The mission of the nursing department is to provide professional nursing education, to advance the knowledge of the discipline and to serve as a resource for health care needs of society.
The nursing program offers a Bachelor of Science Degree in Nursing (BSN). The program has two tracks including a pre-licensure track for students with no nursing background and an RN to BSN track for RN’s who want to obtain a BSN.

MSUM nursing also offers the Master’s of Science in Nursing through the Tri-College University Nursing Consortium (TCU-NC). More information is available at: www.tri-college.org/trinursing.

Pre-licensure Track: (120 Credits)
B.S.N in Nursing
This 8 semester program will begin fall, 2005. Students admitted each fall semester must progress through the program in 8 consecutive semesters, including summer semesters, completing all requirements in 3 academic years. This track will focus on care of clients throughout the lifespan and will focus on the wellness-illness continuum. At the completion of the program students will be prepared to take the national examination (NCLEX) to become a registered nurse.

Competitive admission is based on the following admission criteria:
- Admission to Minnesota State University Moorhead.
- Minimum cumulative high school and or college GPA of 3.0.
- High school or introductory college-level biology and chemistry.
- Two letters of reference from teachers, counselors or employers.
- Prior education and life experience may be considered.
- Preferred ACT score of 24 or preferred SAT score of 1100.
- Possible personal interview.
- Additional consideration may be given to MSUM students.

Upper Division BSN Completion Track: (30 credits)
This track is designed for currently registered nurses to complete requirements for a bachelor's degree in nursing. All courses in the major are delivered online and the student must have daily access to the World Wide Web. All courses transferred in to meet major or liberal studies requirements will be reviewed by faculty advisors.

Admission Requirements
- Admission to Minnesota State University Moorhead.
- Minimum cumulative post-high school GPA of 2.75.
- Active RN license or eligible to take NCLEX examination.
- 21 credits of liberal studies completed.

Graduation requires the successful completion of 120 credits. This includes 40 upper-division credits (at least 30 of these are nursing), 45 liberal studies credits, lower division nursing credits and elective credits. Credit for previous coursework may also be given.

STUDENT LEARNING OUTCOMES
At the completion of the baccalaureate curriculum, graduates are expected to:
- Apply concepts from the arts, humanities and sciences to professional nursing practice.
- Communicate clearly and effectively.
- Apply critical thinking in deliberative decision-making.
- Provide nursing care in accordance with the ANA Standards of Nursing Practice.
- Provide nursing care in accordance with the ANA Code for Nurses.

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

BSN GENERIC PRELICENSURE PROGRAM IN NURSING (102 Credits)

Requirements (66 Credits)
Students in this track do not yet hold the RN license. The liberal studies requirements and nursing coursework are coordinated with advisor to assure timely continuation.

NURS 110L Introduction to Professional Nursing (4)
NURS 112 The Professional Nurse of the Future (2)
NURS 120 Adult Health I (4)
NURS 120L Clinical Nursing I (3)
NURS 220L Family Nursing I (4)
NURS 225 Nursing Pharmacology (3)
NURS 230L Family Nursing II (4)
NURS 240 Adult Health II (3)
NURS 240L Clinical Nursing II (2)
NURS 340L Psychiatric Nursing: Contemporary Practice (4)
NURS 347 Transcultural Nursing (3)
NURS 348L Public Health Nursing (4)
NURS 350 Applied Pathophysiology (4)
NURS 360L Designing and Managing Nursing Care (2)
NURS 420 Gerontological Nursing (2)
NURS 430 Research in Nursing (3)
NURS 465L Clinical Nursing III (3)
NURS 470 Leadership and Professional Issues (2)
NURS 474 Nursing Preceptorship Seminar (1)
NURS 475L Nursing Preceptorship (4)

Related Requirements (36 Credits)
BIOL 125 Human Anatomy and Physiology I (3)
BIOL 126 Human Anatomy and Physiology II (3)
BIOL 236 Introduction to Microbiology (3)
CHEM 212 Principles of Biochemistry (4)
CMST 100 Speech Communication (3)
ENGL 101 Composition and Literature I (4)
ENGL 102 Composition and Literature II (4)
HLTH 305 Introduction to Nutrition (3)
PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)
SOC 110 Introduction to Sociology (3)

BSN IN NURSING-UPPER DIVISION COMPLETION PROGRAM (30 Credits)

Requirements (30 Credits)
Students in this track must hold the RN license.
NURS 302 Bridge to BSN Education (3)
NURS 303L Family Health Nursing (4)
NURS 347 Transcultural Nursing (3)
NURS 348L Public Health Nursing (4)
NURS 350 Applied Pathophysiology (4)
NURS 420 Gerontological Nursing (2)
NURS 430 Research in Nursing (3)
NURS 470 Leadership and Professional Issues (2)
NURS 474 Nursing Preceptorship Seminar (1)
NURS 475L Nursing Preceptorship (4)

Operations Management
Technology Department
Hagen 103, (218) 477-2104
Chair: Ronald Williams
Program Coordinator: Wade Swenson

The Operations Management (2+2) B.S. Degree is specifically designed for transfer students who have earned an Associate of Applied Science degree or an Associate of Science degree from an accredited institution in a field of study related to Industrial Technology. The technical courses of the AAS Degree coupled with the upper division technical management courses provide the Operations Management graduate with a unique advantage in today’s job market. This “Fast Track” BS degree is appropriate for recent technical college graduates as well as persons in the incumbent workforce seeking an applied educational experience to enhance their competitive advantage.

Students identifying Operations Management as their intended major at Minnesota State University Moorhead may transfer up to 48 technical area credits. A minimum of 30 credits will be applied to the technical portion of the OM major. Any remaining technical area credits may be transferred and designated as “free electives” counting toward graduation requirements. The AAS degree transfer may not exceed 64 semester hours including 16 to 22 semester hours in Liberal Studies. All university graduation requirements apply for the 2+2 transfer degree. The program is structured so that a student may complete the degree with two additional years of study.

The Operations Management 2+2 BS program, the first approved by MnSCU for block credit transfer, recognizes the technical courses as a cohesive set of courses with stated and verified educational outcomes.

Career paths available to Industrial Technology graduates

- **Operations Managers**: Oversee a facility’s production and shipping schedules, while workforce, materials, and equipment to meet customer service needs, and a favorable working maintaining product quality, plant efficiency, environment.
- **Technical Sales & Marketing**: Sell products and provide specialized knowledge and advice to customers.
- **Quality Assurance Specialists**: Coordinate the overall design and maintenance of activities related to quality issues.
- **Design Positions**: Work on design teams in varied departments from engineering, to manufacturing, to facilities depending on abilities and interests.
- **Other paths include**: Information Management, Production Management, Supply Chain Management, Purchasing, and Logistics.
STUDENT LEARNING OUTCOMES

The Operations Management degree at MSUM is accredited by the National Association for Industrial Technology (NAIT). The outcomes for the degree must at a minimum address the competencies necessary to maintain that accreditation. The Technology Department faculty meet regularly with an industrial Advisory Board to update a list of outcomes that will prepare a graduate who possesses skills and knowledge acquired through education and on-site experience.

- **Communication Skills**: The student will be able to facilitate team’s efforts, and apply knowledge of oral, written, graphic, and listening skills, for the industry, through use of word processing, data searches, and computer applications for business and industry.

- **Information Technology Skills**: The student will be able to demonstrate computer skills appropriate databases, and spreadsheets applications, electronic business and industry.

- **Scientific and Technical Skills**: The student will be able to apply mathematical, and physical

  - **Manufacturing Processes and Technologies**: The student will understand and apply manufacturing processes and technologies, electrical, electronic and fluid energy concepts and interpret OSHA, NIOSH and other standards, and calculations. The student should also be able to perform process safety evaluations and analyses.

- **Economics and Cost Estimating**: The student will be able to demonstrate computer skills appropriate for the industry, through use of word processing, databases, and spreadsheets applications, electronic business and industry.

- **Work Environment Design and Improvement**: The student will understand and apply the techniques and methods for systematic improvement of the work, economic, and national economy, methods and procedures for safety program implementation.

- **Total Quality Management**: The student will understand the implication of TQM on the local economy, methods and procedures for planning, organizing and controlling for quality, application of quality tools and techniques for designing products and services.

- **Production and Inventory Management**: The student will understand the varied needs for inventory, technology and human resources in different production environments, the effect of inventory management on business performance, different techniques for scheduling materials, workers, machinery, and space, and the Theory of Constraints and its usage for production and inventory management.

- **Positive Personal Habits**: The student will be able to apply appropriate management skills, exhibit ethical actions and conduct, and community.

- **Global and Cultural Awareness**: The student will exhibit an understanding and acceptance of human environment and ethical treatment of all persons.

UPPER LEVEL WRITING REQUIREMENT

Students who complete all requirements, as indicated for each degree, typically will have met the department’s approved upper level writing requirement.

B. S. DEGREE IN OPERATIONS MANAGEMENT

(60 Credits)

**Core Requirements (30 Credits)**

Students in this major will transfer in 30 technical credits from a technical area and complete the following core courses and a minimum of 6 credit internship.

- TECH 380 Methods Improvement (3)
- TECH 383 Cost Analysis (3)
- TECH 385 Process Leadership (3)
- TECH 394 Computer Applications for Engineers and Technologists (3)
- TECH 428 Project Management (3)
- TECH 469 Student Internship (2-12)
- TECH 482 Quality Planning and Implementation (3)
- TECH 493 Occupational Safety and Health (3)
- MGMT 360 Principles of Management (3)

**Related Requirements (17 Credits)**

- ACCT 230 Principles of Accounting I (3)
- ECON 202 Principles of Economics I: Micro (3)
- ENGL 387 Technical Report Writing (4)
- MATH 127 College Algebra (3)
- MATH 234 Introduction to Probability and Statistics (4)
Paralegal Department  
Center for Business 207, (218) 477-2587  
Chair: Judy Streich  
Faculty: Deborah Kukowski, Larry Nordick

The Paralegal program is a professional four-year major resulting in a Bachelor of Science degree. The program is guided by an advisory group composed of university and community members. To complete the major, students must meet the requirements of the core, satisfy at least one of the four areas of emphasis, and complete at least three credits from one of the other areas of emphasis. To receive the Bachelor of Science degree in Paralegal, students must attain a minimum GPA of 2.25 in courses required to complete the Paralegal major.

STUDENT LEARNING OUTCOMES
Students should demonstrate:

- knowledge of a wide variety of substantive and procedural law, such as contracts, torts, family law, bankruptcy, probate and estate planning, real property, public benefits, and administrative law;
- ability to identify and analyze legal issues;
- ability to research the law using the full range of legal research;
- ability to draft pleadings, legal memoranda, and briefs based on research and analysis of legal issues;
- effective oral and written communication skills;
- a full understanding of, and appreciation for, the applicability to paralegals;
- an understanding of the roles and relationships within a legal services delivery team;
- skills in obtaining information through interviewing and investigation.

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

B.S. DEGREE IN PARALEGAL (52-60 Credits)

Core Requirements (37-45 Credits)
Majors must complete the core requirements and at least one area of emphasis. This requires 12 credits from: Civil Litigation, Criminal Litigation, Commercial Law, or Probate and Tax. In addition, all majors must complete at least 3 credits from one other area of emphasis. Credits in excess of the minimum requirements are applied to general electives.

- ACCT 130 Fundamentals of Accounting (3)
- ACCT 304 Legal Environment of Business (3)
- ACCT 306 Contracts and Business Entities (3)
- PARA 125 Introduction to Paralegal (3)
- PARA 250 Legal Research and Writing I (3)
- PARA 251 Legal Research and Writing II (3)
- PARA 310 Civil Procedure I (3)
- PARA 320 Family Law (3)
- PARA 325 Interviewing (3)
- PARA 375 Legal Ethics (3)
- PARA 425 Advanced Legal Research and Writing (3)
- PARA 469 Internship (4-12)

EMPHASIS IN CIVIL LITIGATION (52-60 Credits)

Core Requirements (37-45 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

Requirements (15 Credits)
Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

- PARA 340 Evidence (3)
- PARA 346 Public Benefits (3)
- PARA 410 Civil Procedure II (3)
- PARA 435 Personal Injury (3)

EMPHASIS IN COMMERCIAL LAW (52-60 Credits)

Core Requirements (37-45 Credits)
Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

**Requirements (15 Credits)**

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

- ACCT 307 Commercial Transactions, Property and Special Topics (3)
- PARA 321 Employment Law (3)
- PARA 331 Debtor-Creditor and Bankruptcy Law (3)
- PARA 380 Real Property Law (3)

**EMPHASIS IN CRIMINAL LITIGATION**

**(52-60 Credits)**

**Core Requirements (37-45 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

**Requirements (15 Credits)**

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

- CJ 335 Criminal Law (3)
- CJ 337 Criminal Procedure (3)
- PARA 340 Evidence (3)
- PARA 420 Criminal Litigation (3)

**EMPHASIS IN PROBATE AND TAX**

**(52-60 Credits)**

**Core Requirements (37-45 Credits)**

Students must complete the courses listed as “Core Requirements” under the B.S. Degree in Paralegal. Students must earn at least four credits in PARA 469.

**Requirements (15 Credits)**

Students must complete the 12 credits within this emphasis plus at least 3 credits in one other area of emphasis.

- PARA 380 Real Property Law (3)
- PARA 405 Probate and Estate Planning (3)
- PARA 416 Elder Law (3)
- PARA 446 Estate, Gift and Trust Taxation (3)

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**Chemistry Department**

*Science Lab 3, (218) 477-2136*

**Pre-Pharmacy Advisor:** Craig Jasperse

MSUM offers courses that enable students interested in pharmacy as a profession to complete their first two to three years at MSUM and then apply for acceptance into the professional curriculum of any accredited school of pharmacy. Most students transfer to the University of Minnesota or to North Dakota State University to complete their pharmacy education. However, the academic requirements needed to successfully apply to other pharmacy schools can also be completed here. Curriculum requirements and application procedures vary between different universities so it is necessary to maintain close contact with the pre-pharmacy advisor.

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**Philosophy Department**

*Bridges 359, (218) 477-2478*

**Chair:** Theodore Gracyk

**Faculty:** Randy Cagle, Konrad Czynski, Gaile Pohlhaus, Chang-Seong Hong, Phil Mouch, Scott Senn

The study of philosophy develops the ability to solve problems, communicate, organize ideas and issues, assess pros and cons and boil down complex data. It is a reasoned pursuit of fundamental truths, a quest for understanding, a study of principles of conduct. It seeks to establish standards of evidence, to provide rational methods of resolving conflicts, and to create techniques for evaluating ideas and arguments. Philosophy develops the perspective of other individuals and cultures; enhances one’s ability to perceive the relationships among various fields of study; and deepens one’s understanding of the varieties of human experience. People trained in philosophy are prepared for many tasks—they can cope with change, or even move into new careers more easily.

Philosophy is an excellent second major or minor to accompany a major in any other discipline. The Minnesota State University Moorhead curriculum makes it possible to start a major in philosophy as late as the beginning of the junior year. Philosophy courses enhance understanding of communication and society (journalism); examine moral and legal responsibility (pre-law); and create a
greater capacity for the integration of medical research and ethics (pre-med/health professions). Courses are also available in the areas of general ethics, logic and philosophy of science (pre-engineering), and philosophy of religion (pre-seminary).

People trained in philosophy enter teaching professions (at all levels), medicine, law, computer science, management, publishing, sales, criminal justice and public relations. Most fields employ people educated in philosophy. Minnesota State University Moorhead’s Philosophy Department guides students to become clear thinkers and good writers, skills valued in all professions. The generalist approach of philosophy gives graduates the ultimate in flexibility, the capability to adapt to changing ideas and technologies, and a framework of reason to guide one’s personal life.

STUDENT LEARNING OUTCOMES

Reading and Understanding Philosophical Texts
Philosophy majors should be able to:
- identify the main point or points being made in the writing;
- determine the main arguments given in support of those points;
- accurately paraphrase and summarize (in their own words) materials read;

Writing Philosophical Essays
Philosophy majors should be able to:
- express ideas clearly;
- organize and structure their essays in a coherent, logical manner;
- make clear what their main thesis and arguments are;
- define important concepts clearly, and use them consistently with that definition;
- use complete, grammatically correct sentences;
- present and defend original ideas;
- use good arguments to support their conclusions;
- avoid using material that is not relevant to the issue being discussed;
- avoid inconsistency;
- recognize possible objections to their claims and arguments, and respond to such objections;
- use original examples to help clarify ideas;
- improve essays by re-writing and revision, especially in response to comments from teachers or fellow students;

Philosophical Discussion
Philosophy majors should be able to:
- keep comments directed to the issues being discussed, and avoid irrelevant material;
- show respect for others, and for their opinions;
- attempt to correctly understand the opinions of others;
- show willingness to change their mind in reaction to points raised in discussions;
- present arguments for their opinions;
- have confidence to express and debate ideas;
- be more concerned with finding the truth than with scoring points or impressing others.

Philosophical Knowledge
Philosophy majors should know the following:
- major figures and developments in the history of Western philosophy: particularly classical, especially Descartes and Locke;
- major subject areas in philosophy, specifically including ethics and elementary symbolic logic, epistemology, metaphysics, philosophy of the arts; (e.g., the mind-body problem, deontology vs. philosophical styles, such as feminism, non-Western philosophy);
- some major issues in contemporary philosophy, consequentialism, free will vs. determinism, etc.);
- different approaches to philosophy and alternative phenomenology, non-Western philosophy);

Evaluating and Constructing Philosophical Arguments
Philosophy majors should be able to:
- identify and clearly express conclusions and premises of arguments;
- explore the implications of premises and conclusions;
- assess the logical strength of arguments;
- assess the plausibility of premises;
- have a sense of propriety about major vs. minor issues in evaluating arguments;
- compare arguments with alternatives (are there better arguments for the same conclusion? is there a good case for some alternative conclusion?);
- recognize and avoid fallacies;
- assess the credibility of sources used.

Philosophical Research
Philosophy majors (especially those contemplating graduate study) should be able to:
read and understand philosophical texts independently;
find and use appropriate secondary sources;
use proper scholarly format for writing papers;
prepare bibliographies.

UPPER LEVEL WRITING REQUIREMENT

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

B.A. DEGREE IN PHILOSOPHY (36 Credits)

Requirements (16 Credits)

PHIL 300 History of Ethics (4)
PHIL 303 Classical Philosophy (4)
PHIL 305 Modern Philosophy: 17th Century (2)
PHIL 306 Modern Philosophy: 18th Century (2)
PHIL 340 Symbolic Logic (3)
PHIL 498 Senior Portfolio (1)

Restricted Electives (6 Credits)

Students must take one course from a grouping of courses with a historical emphasis (PHIL 304, 307, 355, 490, and 492) and will need departmental approval for application of PHIL 490 and/or 492 to this category. Students must also take PHIL 407 or 408.

PHIL 304 Medieval Philosophy (3)
OR PHIL 307 19th Century Philosophy (3)
OR PHIL 355 Existentialism (3)
OR PHIL 490 Topics in Philosophy (1-4)
OR PHIL 492 Major Philosophers (1-3)
AND PHIL 407 Theory of Knowledge (3)
OR PHIL 408 Metaphysics (3)

Electives (14 Credits)

Students will need to earn at least fourteen credits of electives in philosophy, eight of which must be at the 300 level or above.

Recommended (0 Credits)

There is no language requirement for the major in philosophy; however, students planning to do graduate work in philosophy should carefully consider the desirability of intensive work in one or more languages. German, French or Greek are typically most relevant to graduate work. Early consultation with a faculty advisor is recommended.

MINOR IN PHILOSOPHY (20 Credits)

Requirements (6 Credits)

PHIL 110 Practical Reasoning (3)
OR PHIL 340 Symbolic Logic (3)
PHIL 115 Contemporary Moral Issues (3)
OR PHIL 300 History of Ethics (4)

Restricted Electives (4 Credits)

At least four credits from the following list of courses. Students will need departmental approval for application of PHIL 490 and/or PHIL 492 to this category.

PHIL 303 Classical Philosophy (4)
PHIL 304 Medieval Philosophy (3)
PHIL 305 Modern Philosophy: 17th Century (2)
PHIL 306 Modern Philosophy: 18th Century (2)
PHIL 307 19th Century Philosophy (3)
PHIL 355 Existentialism (3)
PHIL 490 Topics in Philosophy (1-4)
PHIL 492 Major Philosophers (1-3)

Electives (10 Credits)

Ten credits of Philosophy electives required. At least eight credits of the minor must be in 300 or 400 level courses.

MINOR IN HUMANITIES-FINE ARTS (21 Credits)

Requirements (3 Credits)

HUM 201 Humanities Through the Arts (3)

Restricted Electives (18 Credits)

Students must choose two courses in each of three of the four following areas: HUM 214, HUM 215; history and appreciation of the visual arts; theatre, film, and literature; and music. At least two of the elective credits must be in a studio, applied, or performing course.
MINOR IN HUMANITIES- WESTERN CULTURE (24 Credits)

Requirements (8 Credits)
HUM 214 Classical and Medieval Worlds (4)
HUM 215 Renaissance Through the Modern World (4)

Restricted Electives (3 Credits)
Students must take one of the following three courses.
HUM 211 Perspectives on Society (3)
HUM 212 Perspectives on Ultimate Reality (3)
HUM 213 Perspectives on the Self (3)

Electives (13 Credits)
In consultation with an advisor from the department, students must choose thirteen credits of electives from humanistic disciplines that best serve individual interests, such as history, philosophy, political science, literature, or courses in appreciation of the arts.

Health and Physical Education Department
Nemzek 106, (218) 477-2445
Chair: Wendy Frappier

MSUM’s Health and Physical Education (HPE) Department offers programs for students who are interested in administrative positions in health care delivery, community health promotions, teaching health or physical education in schools, exercise science, athletic training or coaching.

Requirements for Health degrees are listed under Health in this Bulletin.

Bachelor of Science in Physical Education: Teaching
Physical education teaching graduates are employed as K-12 physical education teachers and athletic coaches. A developmental adapted physical education licensure or coaching minor enhances public school employment opportunities. Graduates who wish to teach and coach at the college/university level pursue graduate degrees. Other physical education teaching graduates assume jobs in a variety of recreational and fitness fields.

STUDENT LEARNING OUTCOMES
Students should be able to demonstrate:

Content Knowledge
• Physical education teachers understand physical education content and disciplinary concepts related to the development of a physically educated person.

Growth and Development
• Physical education teachers understand how individuals learn and develop and can provide opportunities that support their physical, cognitive, social, and emotional development.

Diverse Students
• Physical education teachers understand how individuals differ in their approaches to learning, and create appropriate instruction adapted to these differences.

Management and Motivation
• Physical education teachers use an understanding of individual and group motivation and behavior to create a safe learning environment that encourages learning, and self-motivation.

Communication
• Physical education teachers use knowledge of effective verbal, nonverbal, and media communication techniques to enhance learning and engagement in physical activity settings.

Planning and Instruction
• Physical education teachers plan and implement a variety of developmentally appropriate instructional strategies to develop physically educated individuals, based on state and national (NASPE K-12) standards.

Student Assessment
• Physical education teachers understand and use assessment to foster physical, cognitive, social, and emotional development of students in physical activity.

Reflection
• Physical education teachers are reflective practitioners who evaluate the effects of their actions on others (e.g., students, parents/guardians, grow professionally).
Technology
• Physical education teachers use information technology to enhance learning and to enhance personal and professional productivity.

Collaboration
• Physical education teachers foster relationships with colleagues, parents/guardians, and community agencies to support students’ growth and well-being.

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

B.S. DEGREE IN PHYSICAL EDUCATION- TEACHING (85 Credits)

Requirements (48 Credits)
Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.
HLTH 110 Personal Health and Wellness (3)
HLTH 125 First Aid and CPR (2)
HLTH 250 Injury Management (2)
PE 191 Activities Course: Dance (2)
PE 192 Activities Course: Gymnastics (1)
PE 193 Activities Course: Elementary School (2)
PE 194 Activities Course: Non-Traditional (1)
PE 200 Foundations of Physical Education (3)
PE 310 Sport and Play in the United States (3)
PE 311 Motor Learning (2)
PE 320 Anatomical Kinesiology (3)
PE 321 Human Physiology (3)
PE 360 Elementary Methods in Physical Education (3)
PE 361 Secondary Methods in Physical Education (3)
PE 362 Middle School Methods in Physical Education (2)
PE 420 Biomechanics (3)
PE 421 Physiology of Exercise (3)
PE 452 Adaptive Physical Education (3)
PE 474 Tests and Measurements in Physical Education (3)
PE 160 Swimming I (1)
OR PE 161 Swimming II (1)
OR PE 223 Water Safety Instructor (2)

Electives (4 Credits)
Students must earn one credit in courses that focus on physical fitness, one credit in courses that focus on team sports, and two credits in courses that focus on individual sports. Consult your academic advisor when making your selections from the listed courses.
PE 100 Aerobic Dance (1)
PE 102 Weight Training I (1)
PE 112 Bowling (1)
PE 114 Golf (1)
PE 116 Tennis I (1)
PE 124 Badminton (1)
PE 130 Volleyball I (1)
PE 134 Soccer (1)

MINOR IN PHYSICAL EDUCATION- TEACHING (28 Credits)
Students who select this minor must also earn a teaching major in another discipline. Students should be advised that the State of Minnesota does not recognize minors in Physical Education for teacher licensure. Students who desire licensure in states other than Minnesota should check with teacher licensure authorities to determine licensure requirements. In addition to the courses listed, students are required to earn one additional elective credit in an activity course.
HLTH 125 First Aid and CPR (2)
PE 191 Activities Course: Dance (2)
PE 192 Activities Course: Gymnastics (1)
PE 193 Activities Course: Elementary School (2)
PE 200 Foundations of Physical Education (3)
PE 320 Anatomical Kinesiology (3)
PE 321 Human Physiology (3)
PE 360 Elementary Methods in Physical Education (3)
PE 361 Secondary Methods in Physical Education (3)
PE 362 Middle School Methods in Physical Education (2)
PE 452 Adaptive Physical Education (3)
**Bachelor of Science in Physical Education: Exercise Science**

The physical education exercise science major prepares students for positions as a health fitness instructor, personal trainer and fitness director. The major will also prepare students for graduate school programs in exercise science, exercise physiology or cardiac rehabilitation. The physical education exercise science major also prepares students for certification by the American Council on Exercise, National Strength and Conditioning Association and the American College of Sports Medicine.

**STUDENT LEARNING OUTCOMES**

The following student outcomes for the B.S. (Exercise Science) program are consistent with recommendations of the American College in Sports Medicine (Health and Fitness Track).

The student should be able to demonstrate:

**Anatomy and Biomechanics**
- Knowledge of anatomy as it relates to exercise and health.
- Knowledge of biomechanical aspects of exercise participation.
- Knowledge of functional anatomy and biomechanics.
- Knowledge of biomechanical principles that underline performance of the following activities: weight lifting, and carrying or moving objects.

**Exercise Physiology**
- Basic knowledge of exercise physiology as it relates to exercise prescription.
- Knowledge of exercise physiology including the role of aerobic and anaerobic metabolism, muscle respiratory physiology at rest and during exercise.
- In addition, demonstrate an understanding of the components of physical fitness, the effects of the fitness components and the effects of chronic disease.

**Human Development and Aging**
- Knowledge of the benefits and risks associated with exercise training in prepubescent and postpubescent youth.
- Knowledge of the changes that occur during growth and development from childhood to old age.

**Pathophysiology/Risk Factors**
- Knowledge of cardiovascular, respiratory, metabolic, and musculoskeletal risk factors that may require further evaluation by medical or allied health professionals before participation in physical activity.
- Knowledge of the pathophysiology of atherosclerosis and how this process is influenced by physical activity.

**Human Behavior and Psychology**
- Ability to identify and define at least five behavioral strategies to enhance exercise and health behavior change (i.e., reinforcement, goal setting, social support).
- Ability to list and describe the specific strategies aimed at encouraging the initiation, adherence, and return to participation in an exercise program.

**Health Appraisal and Fitness Testing**
- Knowledge of the importance of a health/medical history.
- Knowledge, skills, and abilities to assess the health status of individuals and the ability to conduct fitness testing.

**Safety, Injury Prevention, and Emergency Care**
- Knowledge of and skill in obtaining basic life support and cardiopulmonary resuscitation certification.
- Skill in demonstrating appropriate emergency procedures during exercise testing and/or training.

**Exercise Programming**
- Knowledge of the recommended intensity, duration, frequency, and type of physical activity necessary for development of cardiorespiratory fitness in an apparently healthy population.
- Knowledge, skills, and abilities to prescribe and administer exercise programs for apparently healthy individuals at higher risk, and individuals with known disease.

**Nutrition and Weight Management**
- Knowledge to define the following terms: obesity, overweight, percent fat, lean body mass, anorexia nervosa, bulimia, and body fat distribution.
- Knowledge, skills, and abilities to provide diet and exercise on body composition and weight information concerning nutrition and the role of control.

**Program and Administration/Management**
- Knowledge, skills, and ability to administer and deliver health/fitness programs.

**EMPHASIS IN EXERCISE SCIENCE**

(55 Credits)
Core Requirements (37 Credits)
This core is required of all students who major in this emphasis. Students in this emphasis must earn at least two credits in PE 469.
HLTH 110 Personal Health and Wellness (3)
HLTH 125 First Aid and CPR (2)
HLTH 250 Injury Management (2)
HLTH 305 Introduction to Nutrition (3)
HLTH 330 Disease Prevention (2)
PE 310 Sport and Play in the United States (3)
PE 311 Motor Learning (2)
PE 320 Anatomical Kinesiology (3)
PE 321 Human Physiology (3)
PE 365 Health and Fitness Instructor (3)
PE 420 Biomechanics (3)
PE 421 Physiology of Exercise (3)
PE 469 Internship (2-12)
PE 473 Exercise Testing and Interpretation (3)

Electives (18 Credits)
Elective course selections should be made in close consultation with your academic advisor, depending upon the career goals of the student.
ACCT 230 Principles of Accounting I (3)
BIOL 111 Cell Biology (4)
BIOL 323 Human Anatomy (4)
BIOL 349 Human Physiology (4)
CHEM 110 Fundamentals of Chemistry (4)
CHEM 185 Introduction to Organic and Biochemistry Lab (1)
CMST 100 Speech Communication (3)
CSIS 103 Computer Concepts and Applications (3)
ENGL 286 Practical Writing (3)
ENGL 387 Technical Report Writing (4)
HLTH 200 Introduction to Health Education and Health Promotion (2)
MATH 236 Applied Statistics (4)
MGMT 360 Principles of Management (3)
MKTG 310 Principles of Marketing (3)
PE 100 Aerobic Dance (1)
PE 102 Weight Training I (1)
PE 364 Teaching Aerobic Dance (3)
PE 460 Principles of Coaching (3)
PE 474 Tests and Measurements in Physical Education (3)
PHYS 160 College Physics I (4)

Developmental Adapted Physical Education Licensure
The developmental adapted physical educational licensure provides specialized training to teach physical education to public school students who have physical, sensory, emotional and/or mental disabilities. This licensure is an excellent complement to the physical education major.

Students completing the B.S. (teaching) program should be able to demonstrate:

DEVELOPMENTAL ADAPTED PHYSICAL EDUCATION LICENSURE (24 Credits)
Students will take five credits of internship. Post-baccalaureate students may take the 500-level equivalents of the courses listed.
PE 452 Adapted Physical Education (3)
PE 453 Assessment and Programming in DAPE (3)
PE 454 Curriculum in Developmental Adapted Physical Education (3)
PE 456L Lab Curriculum and Assessment for Severely Handicapped (1)
PE 469 Internship (2-12)
SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
SPED 461 Learning Disabilities (3)
SPED 471 Behavior and Environment Management (3)

Coaching Minor
The coaching minor prepares students to assume the responsibilities of coaching in competitive athletics. The coaching minor enhances a student’s credentials and employment opportunities as a varsity coach in the state of Minnesota and other states. The coaching minor is available to students pursuing either a teaching or non-teaching degree.
MINOR IN COACHING (19 Credits)
This minor is available to teaching and non-teaching majors. Students must complete the following courses and must take two three credit coaching courses
(PE 371-379).
HLTH 125 First Aid and CPR (2)
HLTH 250 Injury Management (2)
PE 350 Mechanical Principles of Sport (3)
PE 351 Physiology of Sport (2)
PE 460 Principles of Coaching (3)
PE 461 Coaching Practicum (1)
PE 371 Coaching Football (3)
OR PE 372 Coaching Basketball (3)
OR PE 373 Coaching Baseball and Softball (3)
OR PE 374 Coaching Track and Field (3)
OR PE 375 Coaching Wrestling (3)
OR PE 376 Coaching Golf and Tennis (3)
OR PE 378 Coaching Swimming and Diving (3)
OR PE 379 Coaching Volleyball (3)

B.A. DEGREE IN PHYSICAL EDUCATION
(52 Credits)
Requirements (52 Credits)
This major is for students who do not plan to complete licensure in teaching. The requirements for the major are the same as the B.S. Degree requirements except that students do not have to complete the Teacher Licensure requirements.

See Chemistry or Physics

Physics and Astronomy Department
King 223, (218) 477-2141
Chair: Linda Winkler
Faculty: Matthew Craig, Richard Lahti, Stephen Lindas, Ananda Shastri, Walter Worman

The Department of Physics and Astronomy offers three degrees in physics: a Bachelor’s Degree in Physics, Bachelor’s Degree in Physics Teaching, and a dual Physics/Engineering degree in conjunction with the University of Minnesota. The Bachelor’s Degree in Physics may be further enhanced with an Emphasis in Business. In addition, the department supports both a Minor in Physics and a Minor in Astronomy.

The physics major prepares students for a wide variety of science-related careers immediately upon graduation. It also prepares students for further study in a graduate or professional school. The major strengths of the physics program include:
• an emphasis on active learning using computers as tools for data collection, analysis, and modeling;
• opportunities for undergraduate research;
• involvement of students in outreach program.

The sequential nature of the physics curriculum, and the necessity to coordinate physics courses with courses taken in other departments make it imperative that a student considering a major or minor in physics or astronomy consult a member of the Department of Physics and Astronomy early in his/her career.

Bachelor’s Degree in Physics Teaching
This degree prepares the student to be certified to teach high-school physics in Minnesota. The program combines physics courses for the major with education courses needed for licensure, as well as provides a broad education in chemistry, life science, and earth science. A student with this degree is very close to obtaining general science licensure in grades 5 through 8 with one additional science methods course.

Engineering/Physics Dual Degree
This program is unique in the Tri-College system. The student completes the core physics and liberal studies requirements in his/her first three years at Minnesota State University Moorhead. The student then completes a final two years at the Institute of Technology at the University of Minnesota, completing a Bachelor of Science degree in Mechanical, Civil, or Electrical Engineering. It is expected students in the dual degree program will obtain both a physics and engineering degree in 5 years. The Dual Degree Advisor and the Pre-engineering Advisor will work with individual students to ensure that requirements are met for both programs.

Emphasis in Business
This program prepares the physics student for a career in industry. In addition to physics courses, the student takes additional courses in finance, management, and marketing.
Minor in Physics

This minor is designed for the student who wants to have a strong resume in physical science, and is pursuing a closely allied major such as mathematics, chemistry, or computer science. A student pursuing a physics minor must have a solid mathematical foundation in algebra, trigonometry, and calculus.

Minor in Astronomy

The minor in astronomy curriculum is designed for students who have an interest in astronomy and earth sciences. A student pursuing a minor in astronomy must have a solid mathematical foundation in algebra and trigonometry.

STUDENT LEARNING OUTCOMES

Students will demonstrate:

• basic knowledge of experimental and theoretical physics;
• substantial experience in the use of mathematical methods (e.g. Newton’s laws, Maxwell’s equations, etc.) in the solution of problems;
• a well developed ability to draw both quantitative and qualitative conclusions from experimental data;
• an ability to apply the computer to physics problem solving and modeling;
• an ability to use the computer in the laboratory, both as part of the instrumentation system and as an analytical tool;
• a refined ability to communicate scientific ideas and reasoning, both in written and in oral form;
• recognition of the difference between careful and careless reasoning, the ability for self-assessment and recognition of the need for further information.

UPPER LEVEL WRITING REQUIREMENT

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

B.S. DEGREE IN PHYSICS-TEACHING

(107 Credits)

Core Requirements (26 Credits)

In addition to the Physics requirements, students must also complete the teacher education requirements. Students may substitute PHYS 160-161 for PHYS 200-201.

PHYS 200 General Physics I (4)
PHYS 201 General Physics II (4)
PHYS 202 Gen Physics III (3)
PHYS 305 Experimental Physics I (2)
PHYS 306 Experimental Physics II (2)
PHYS 322 Elementary Modern Physics (3)
PHYS 330 Intermediate Mechanics (4)
PHYS 370 Electromagnetic Theory (4)

Requirements (33 Credits)

Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.

BIOL 111 Cell Biology (4)
BIOL 115 Organismal Biology (4)
BIOL 305 General Botany (4)
CHEM 200 General Chemistry I (4)
CHEM 210 General Chemistry II (4)
GEOS 115 Physical Geology (4)
GEOS 116 Historical Geology (3)
GEOS 360 Planetary Science (3)
PHYS 440 Secondary Science Teaching Methods (3)

Related Requirements (15 Credits)

Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.

MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 366 Differential Equations (3)

B.S. DEGREE IN PHYSICS (66 Credits)

Core Requirements (39 Credits)

Students may substitute PHYS 160 and 161, plus an approved two credit elective for PHYS 200 and 201.

PHYS 200 General Physics I (4)
PHYS 201 General Physics II (4)
PHYS 202 Gen Physics III (3)
PHYS 305 Experimental Physics I (2)
PHYS 306 Experimental Physics II (2)
PHYS 315 Physics Seminar (1)
PHYS 322 Elementary Modern Physics (3)
PHYS 330 Intermediate Mechanics (4)
PHYS 342 Introduction to Research (1)
PHYS 350 Computational Methods for Physical Science (3)
PHYS 370 Electromagnetic Theory (4)
PHYS 399 Thermodynamics (3)
PHYS 430 Quantum Mechanics (3)
PHYS 455 Senior Project (2)

Related Requirements (19 Credits)
Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.

ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 366 Differential Equations (3)

Electives (8 Credits)
Students must earn eight elective credits in Physics at the 300 level or higher.

EMPHASIS IN BUSINESS (85 Credits)
Requirements (51 Credits)
Students may substitute PHYS 160-161 for PHYS 200-201.
ACCT 230 Principles of Accounting I (3)
ACCT 304 Legal Environment of Business (3)
ECON 202 Principles of Economics I: Micro (3)
FINC 340 Financial Management (3)
MGMT 360 Principles of Management (3)
MGMT 380 Operations Management (3)
MKTG 310 Principles of Marketing (3)
PHYS 200 General Physics I (4)
PHYS 201 General Physics II (4)
PHYS 305 Experimental Physics I (2)
PHYS 306 Experimental Physics II (2)
PHYS 322 Elementary Modern Physics (3)
PHYS 330 Intermediate Mechanics (4)
PHYS 342 Introduction to Research (1)
PHYS 350 Computational Methods for Physical Science (3)
PHYS 370 Electromagnetic Theory (4)
PHYS 399 Thermodynamics (3)
PHYS 430 Quantum Mechanics (3)
PHYS 455 Senior Project (2)

Restricted Electives (6 Credits)
In addition to the courses listed above, student must earn an additional 3 credits in physics at the 300 level or above, plus 3 credits from the courses listed below.
FINC 325 Financial Institutions and Markets (3)
FINC 354 Real Estate Finance and Investments (3)
FINC 441 Advanced Financial Management (3)
MGMT 370 Management Information Systems (3)
MGMT 405 Small Business Management (3)
MGMT 420 Organizational Theory (3)
MGMT 440 Personnel Management (3)
MGMT 451 Organizational Behavior (3)
MGMT 469 Student Internship (2-8)
MKTG 311 Marketing Management (3)
MKTG 315 Industrial Marketing (3)
MKTG 419 Distribution Management (3)
Related Requirements (19 Credits)
Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 366 Differential Equations (3)

EMPHASIS IN ASTRONOMY (78 Credits)

Core Requirements (39 Credits)
Students must complete the physics core requirements.

Requirements (15 Credits)
AST 102 Solar System Astronomy (3)
AST 104 Stellar Astronomy (3)
AST 365 Cosmology (3)
AST 380 Celestial Mechanics (3)
AST 410 Astrophysics (3)

Restricted Electives (4 Credits)
In addition to the courses listed above, students must earn an additional 4 credits from these courses:
AST 350 Astronomical Image Processing (1)
AST 360 Planetary Science (3)
PHYS 312 Analog Electronics (3)
PHYS 372 Optics (3)
PHYS 469 Physics Internship (2-4)

Related Requirements (19 Credits)
Students who fulfill the Mathematics requirements listed below at MSUM are also required to take Math 260, Computer Calculus (1 credit). Math 260 may be taken concurrently with any course in the Calculus series (Math 261, 262, 323); students are encouraged to take Math 260 with Math 261.
ENGL 387 Technical Report Writing (4)
MATH 261 Calculus I (4)
MATH 262 Calculus II (4)
MATH 323 Multi-Variable and Vector Calculus (4)
MATH 366 Differential Equations (3)

MINOR IN PHYSICS (24 Credits)

Requirements (19 Credits)
Students may substitute PHYS 160-161 for PHYS 200-201.
PHYS 200 General Physics I (4)
PHYS 201 General Physics II (4)
PHYS 202 Gen Physics III (3)
PHYS 305 Experimental Physics I (2)
PHYS 306 Experimental Physics II (2)
PHYS 315 Physics Seminar (1)
PHYS 322 Elementary Modern Physics (3)

Electives (5 Credits)
Students must earn five elective credits in Physics courses at the 300 level or higher.

MINOR IN ASTRONOMY (23 Credits)

Requirements (8 Credits)
Students will need to earn at least two credits in
AST 390.
AST 102 Solar System Astronomy (3)
AST 104 Stellar Astronomy (3)
AST 390 Projects in Advanced Astronomy (2)

Related Requirements (8 Credits)
PHYS 160 College Physics I (4)
PHYS 160L Physics 160 Laboratory (0)
PHYS 161 College Physics II (4)
PHYS 161L Physics 161 Laboratory (0)

Electives (7-8 Credits)
Depending on elective choices, student will earn seven or eight credits in this area.
Political Science Department
MacLean 362, (218) 477-2942
Chair: Barbara Headrick
Faculty: Philip Baumann, Andrew Conteh, James Danielson, Paul Kramer

The ancient Greek philosopher, Aristotle, indicated that among all areas of human inquiry, political science is the “master science”. Not only is the study of politics challenging, rewarding, and important, but it often leads to careers in foreign and domestic government service, higher education and the practice of law.

STUDENT LEARNING OUTCOMES
Students are expected to be able to read analytically, think critically, and organize ideas about the subject matter of the discipline in oral and written form so that information is communicated both intelligently and intelligibly.

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

B.A. DEGREE IN POLITICAL SCIENCE
(46-47 Credits)
Requirements (27 Credits)
POL 120 American National Government and Politics (3)
POL 160 International Relations (3)
POL 210 Introduction to Political Science (3)
POL 230 Introduction to the Law (3)
POL 310 Political Science Research Methods (3)
POL 315 Political Thought (3)
POL 340 Public Administration (3)
OR POL 341 Public Policy (3)
POL 350 Comparative Governments of Western Europe (3)
OR POL 352 Political Problems in Developing Countries (3)
POL 361 International Political Economy (3)

Restricted Electives (7-8 Credits)
The orientation requirement in research tools is composed of seven or eight credits, depending on the elective option chosen. Students are required to complete (1) a two course sequence at the 200 level or above in a foreign language or (2) MATH 234 and PHIL 110.

Electives (12 Credits)
Students must take sufficient electives in Political Science courses to bring the total Political Science credits to 39.

MINOR IN POLITICAL SCIENCE (21 Credits)
Requirements (6 Credits)
POL 120 American National Government and Politics (3)
POL 210 Introduction to Political Science (3)

Electives (15 Credits)
Students must earn at least fifteen credits of Political Science electives, nine of which must be at the 300 level or above.
The Psychology Department offers an undergraduate major and minor in psychology. An important aspect of the program is the science/research orientation built into the curriculum. Students may specialize in areas emphasizing preparation for graduate school or for work in the profession at the bachelor’s degree level.

**STUDENT LEARNING OUTCOMES**

Students:
- can demonstrate knowledge and appreciation of basic concepts and theories in psychology;
- know the principles and theories of psychology;
- can critically analyze evidence and theories in psychology;
- can demonstrate knowledge of the cultural and historical context of psychology;
- demonstrate appreciation of the social, cultural and scientific roles played by psychology;
- demonstrate appreciation of/or identity with the discipline;
- can demonstrate communication skills within the discipline of psychology;
- can demonstrate technical writing skills, APA format;
- are capable of organizing a persuasive argument;
- can write engagingly and interestingly;
- can make meaningful oral presentations;
- can demonstrate research skill in psychology;
- are capable of using library and other resources;
- can carry out independent research with appropriate hypotheses, design and methods;
- can use statistical methods for data analysis;
- can evaluate the empirical research designs reported by others;
- know ethical guidelines in psychology;
- practice ethical guidelines in psychology.

**UPPER LEVEL WRITING REQUIREMENT**

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

**B.A. DEGREE IN PSYCHOLOGY (42 Credits)**

*Requirements (27 Credits)*

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<tr>
<th>Course</th>
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<td>PSY 113</td>
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<td>PSY 202</td>
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<td>PSY 231</td>
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<td>PSY 232</td>
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<td>PSY 300</td>
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<td>PSY 430</td>
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<td>PSY 463</td>
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<td>PSY 481</td>
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*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)*

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<th>Course</th>
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<td>PSY 113</td>
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<td>PSY 261</td>
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<td>PSY 231</td>
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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.

See Mass Communications
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)
- ART 411 Medieval Art (4)
- ART 420 Renaissance Art (4)
- ENGL 234 Mythology (3)
- ENGL 416 Milton (3)
- HUM 212 Perspectives on Ultimate Reality (3)
- HUM 220 Introduction to East-West Humanities (3)
- PHIL 304 Medieval Philosophy (3)

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.

Foundations of Education Office
Lommen 213, (218) 477-2217
Director: Charles Howell
Faculty: Steven Grineski, Brian Smith, Harry Weisenberger

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

Areas of Study
K-12 disciplines include Visual Arts, Music, Spanish, and Physical Education. Secondary Education disciplines include the majors of Communication Arts and Literature, Health, Mathematics, Life Science, Earth Science, Physical Science, and Social Studies.

Secondary and K-12 Requirements
Students interested in obtaining licensure to teach Secondary and K-12 Education must be admitted to the Teacher Education program and satisfy all Selective Admission and Retention in Teacher Education (SARTE) requirements.

Selective Admission and Retention in Teacher Education (SARTE) Requirements
- complete 100 and 200 level education core courses with grade of "C" or higher in each course;
- liberal studies GPA of 2.25;
- cumulative GPA of 2.5;
- take the Pre-Professional Skills Tests (PPST);
- submit application for admission to Teacher Education.

Student Teaching Requirements
- admission and retention in Teacher Education (SARTE) including a cumulative GPA of 2.5;
- GPA of 2.5 in education core courses with grade of "C" or higher in each course;
- major GPA of 2.5;
- complete program requirements in major, including method courses;
- submit application for student teaching by posted deadline.

Licensure Requirements
- complete program requirements including the sequence of field experiences;
- pass the Pre-Professional Skills Test (PPST);
- pass the Praxis II;
- submit application for Licensure.
STUDENT LEARNING OUTCOMES
The following student learning outcomes are identified as fundamental to the teacher education program at MSUM. MSUM teacher candidates will:

• apply liberal studies/content knowledge;
• understand student/child development and learning;
• demonstrate multicultural, gender-fair, and disability sensitive values;
• employ appropriate group and individual instructional strategies;
• establish and maintain a productive learning environment;
• actively use communication and interpersonal skills;
• assign an organized, effective and appropriate curriculum;
• use appropriate group and individual assessment strategies;
• engage in life-long learning;
• demonstrate professionalism, ethical behavior, and leadership;
• use technology in support of classroom instruction.

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

SECONDARY EDUCATION, STUDENT TEACHING LICENSURE IN SECONDARY EDUCATION AND KINDERGARTEN-GRADE 12 (33 Credits)
Core Requirements (33 Credits)
Students must also complete a teaching methods course in their major discipline. Kindergarten through Grade 12 disciplines include Art, Music, and Physical Education. Secondary Education disciplines include the majors of English, Health, Mathematics, Life Science, Earth Science, Physical Science, Spanish, and Social Studies. All students must earn two credits in ED 398.
AMCS 233 Education and Multicultural America (3)
CMST 100 Speech Communication (3)
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
ED 398 Field Experience in Secondary Education (2)
ED 443S Classroom Management/Consultation (3)
MCS 233 Education and Multicultural American (3)
CMST 100 Speech Communication (3)
SPED 320 Educational Services for Individuals with Exceptionalities (3)
ED 461S Student Teaching: Secondary (10)
OR ED 460S Student Teaching: Secondary (5)
AND EECE 480E Student Teaching: Elementary (5)

Secondary Education (Includes licensures in PreK-12, K-12, K-5, 5-8, 5-12, and 9-12)
Teaching Licensure (33 Credits)
Core Requirements (33 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.
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
ED 443S Classroom Management/Consultation (3)
SPED 320 Educational Services for Individuals with Exceptionalities (3)
ED 461S Student Teaching: Secondary (10)
OR ED 460S Student Teaching: Secondary (5) AND EECE 480E Student Teaching: Elementary (5)

CERTIFICATE IN MIDDLE SCHOOL EDUCATION (12 Credits)
Requirements (9 Credits)
ED 451 Middle School Philosophy (2)
ED 452 Adolescent Development and Advisor/Advisee Programs (2)
ED 453 Interdisciplinary Instructional Strategies (2)
EECE 448 Reading Study Skills in the Content Areas (3)

Restricted Electives (3 Credits)
In addition to the listed requirements, students must complete a curriculum methods course appropriate for the area of emphasis in midlevel education. Examples of such courses include: ENGL 494, MATH 316, PHYS 442, CHEM 442, and BIOL 442. Other methods courses may be chosen, depending on the midlevel discipline, in consultation with the Middle School Certificate Coordinator.

See Business

History Department
MacLean 302, (218) 477-2812
Program Coordinator: Steven Hoffbeck

Successful completion of the Social Studies major leads to certification from the State of Minnesota to teach in grades five through twelve.

The major has four components:

- Core requirements, also known as distribution requirements. These courses expose majors to the various disciplines that comprise Social Studies. All students must complete the 28 credit requirement listed below.
- Emphasis. Majors must choose one discipline as their emphasis. Requirements for each discipline are listed below.
- Secondary emphasis. Majors must choose one discipline as their secondary emphasis. Requirements for each discipline are listed below.
- Teacher licensure requirements. These 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 most frequently taught subject in Social Studies, other areas are also taught at the secondary level, often depending on the size of the school. In Minnesota, high schools must commonly offer courses in Geography, Political Science, and Economics.

It is also worth noting that students can enhance their appeal as teacher candidates by qualifying themselves to coach a sport. Consult with the Health and Physical Education Department to learn more.

STUDENT LEARNING OUTCOMES
Students completing programs in History and Social Studies should be able to demonstrate the ability to do the following:

Reading Comprehension and Cognitive Skills
- identify the main point or thesis in a piece of historical writing;
- analyze how authors develop their theses and support them with evidence;
- recognize and evaluate differences in historical interpretation among different authors.

Historical Thinking Skills
- recognize potential sources of bias in historical writings;
- understand and interpret events in their appropriate historic context;
- understand and interpret relations of cause and effect and other sequential relations;
- understand the complexity of human motivations and appreciate cultural differences in patterns of behavior and ideation;
- synthesize a variety of evidence into a coherent and plausible account of events.

Research Skills
- recognize the difference between primary and secondary sources, and understand the uses and importance of each type;
- select and refine an appropriate topic for a given assignment;
- identify a variety of different kinds of source materials that could shed light on a particular topic;
- use the library and various bibliographic aids to identify and locate different sources relevant to a particular topic;
- evaluate which of their sources are the most authoritative;
• compile and annotate a bibliography, and present it in proper format;
• conduct an oral history interview.

**Written Communication Skills**
• formulate a thesis on the basis of insights gained from research;
• develop their thesis in an organized and logical progression;
• use appropriate evidence to support points;
• cite their sources properly;
• summarize points made in source materials, and make the connections between different points of view and their own;
• recognize the shortcomings of their evidence and anticipate possible objections;
• respond constructively to criticism and make appropriate revisions;
• write clear and grammatical prose;
• critically evaluate the work of other students.

**Oral Communication Skills**
• respond clearly and thoughtfully to questions and comments in class discussion;
• draw upon and summarize reading materials in ways that address larger themes and issues;
• deliver an effective oral presentation;
• critically evaluate the work of other students.

**Computer Literacy**
• produce a paper using word processing software;
• use e-mail;
• conduct research using the World Wide Web in addition to traditional sources

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

**B.S. DEGREE IN SOCIAL STUDIES**
(97-101 Credits)

**Core Requirements (29 Credits)**
In addition to the core, all students must complete a primary and a secondary emphasis. Students must also fulfill all teacher licensure requirements which will add thirty-three credits to the major total.

ANTH 110 Introduction to Cultural Anthropology (3)
ECON 100 The American Economy (3)
GEOS 111 Cultures and Regions (3)
HIST 121 History of the United States to 1877 (4)
HIST 122 History of the United States Since 1877 (4)
HIST 440 Secondary Social Studies Instruction (3)
POL 105 Making Sense of Politics (3)
PSY 113 General Psychology (3)
SOC 110 Introduction to Sociology (3)
OR SOC 210 Social Problems (3)

**PRIMARY EMPHASIS IN ANTHROPOLOGY (24 Credits)**

**Requirements (12 Credits)**
This is the primary emphasis in Anthropology for the Social Studies degree. Students must also choose a secondary emphasis in Economics, Geography, History, Political Science, Psychology, or Sociology.

ANTH 115 Introduction to Archaeology (3)
ANTH 120 Introduction to Physical Anthropology (3)
ANTH 265 Language and Culture (3)
ANTH 300 Archaeology (3)

**Electives (12 Credits)**
Students must take twelve elective credits in Anthropology courses. At least one of the courses must be a cultural anthropology course.

**PRIMARY EMPHASIS IN ECONOMICS**
(24 Credits)

**Requirements (15 Credits)**
This is the primary emphasis in Economics for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Geography, History, Political Science, Psychology, or Sociology.

ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
ECON 300 Global Economic Issues (3)
ECON 302 Intermediate Microeconomic Theory (3)
ECON 304 Intermediate Macroeconomic Theory (3)

Electives (9 Credits)
Students must complete at least nine credits of Economics electives.

PRIMARY EMPHASIS IN GEOGRAPHY
(25 Credits)
Requirements (10 Credits)
All students in this emphasis must complete GEOS 110 and GEOS 480. Additionally, students must complete six credits from the following courses: GEOS 235, GEOS 310, and GEOS 410.
GEOS 110 Introductory Physical Geography (3)
GEOS 235 Geography of Minnesota and North Dakota (3)
GEOS 310 United States and Canada (3)
GEOS 410 Eastern Europe and Russia (3)
GEOS 480 Senior Seminar (1)

Restricted Electives (15 Credits)
Students must complete fifteen credits from the listed courses. Students may not fulfill the “Restricted Electives” section with any of the courses applied toward the "Requirements” section of this emphasis.
ANTH 307 Ecological Anthropology (3)
GEOS 225 Conservation (3)
GEOS 235 Geography of Minnesota and North Dakota (3)
GEOS 305 Oceanography (3)
GEOS 310 United States and Canada (3)
GEOS 320 Economic Geography (3)
GEOS 325 Reading Landscape: Ways of Seeing (3)
GEOS 330 Elementary Meteorology (3)
GEOS 405 Geographic Information Systems (3)
GEOS 410 Eastern Europe and Russia (3)

PRIMARY EMPHASIS IN HISTORY (23-24 Credits)
Requirements (11-12 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 (4)
HIST 105 World History II (4)
HIST 401 Senior Seminar (3-4)

Restricted Electives (12 Credits)
Students must take twelve credits of electives at the 300 level or above distributed in the following areas: at least three credits in European History, at least three credits in U.S. or Canadian History, and at least three credits in African, Asian, Latin American, or modern Middle Eastern History. In addition, students must take a 3 credit elective which can be in any area of history.

PRIMARY EMPHASIS IN POLITICAL SCIENCE (24 Credits)
Requirements (18 Credits)
This is the primary emphasis in Political Science for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Economics, Geography, History, Psychology, or Sociology.
POL 120 American National Government and Politics (3)
POL 160 International Relations (3)
POL 221 State and Local Government (3)
POL 310 Political Science Research Methods (3)
POL 315 Political Thought (3)
POL 350 Comparative Governments of Western Europe (3)

Electives (6 Credits)
Students must choose six credits in Political Science electives.

PRIMARY EMPHASIS IN PSYCHOLOGY
(24 Credits)
Requirements (9 Credits)
This is the primary emphasis in Psychology for the Social Studies degree. Students must also choose a secondary emphasis in Anthropology, Economics, Geography, History, Political Science, or Sociology.
PSY 202 Developmental Psychology (3)
PSY 231 Psychological Statistics and Methodology I (3)
PSY 261 Personality (3)
Electives (15 Credits)
Students must complete 15 elective credits in Psychology courses. Six of the elective credits must be at the 300 level or above.

PRIMARY EMPHASIS IN SOCIOLOGY (26 Credits)

Requirements (15 Credits)
This is the primary emphasis in Sociology for the Social Studies degree. Students who choose Sociology as their primary emphasis must take SOC 110 as part of the “Core Requirements.” Students must also choose a secondary concentration in Anthropology, Economics, Geography, History, Political Science, or Psychology.
SOC 210 Social Problems (3)
SOC 230 Social Psychology (3)
SOC 302 Social Theory (3)
SOC 310 Dominant-Subordinate Group Relations (3)
SOC 412 Sociology of Complex Organizations (3)

Restricted Electives (11 Credits)
Students must take eleven credits in Sociology electives at the 300 level or above.

SECONDARY EMPHASIS IN AMERICAN MULTICULTURAL STUDIES (21-23 Credits)

Requirements (12-14 Credits)
This is the secondary emphasis in American Multicultural Studies for the Social Studies major. Students must take one of these required courses and one course from each of the 3 cultural emphases: African American, American Indian or Chicano/Latino, for a total of four courses in this emphasis.
AMCS 300 Theories and Methods in American Multicultural Studies (3)
OR AMCS 372 Dynamics of Prejudice and Oppression (4)

Restricted Electives (9 Credits)
Select one course from each of the 3 cultural emphases: African American, American Indian and Chicano/Latino.

African American
AMCS 210 African American Humanities: Roots (4)
AMCS 211 Contemporary African Americans (3)

American Indian
AMCS 102 Contemporary American Indians (3)
AMCS 225 Ojibwe Culture (3)
AMCS 270 American Indian Education (3)
AMCS 313 Modern Multicultural America (4)
AMCS 319 Plains Indian Cultures (3)
AMCS 332 Indians of the Southwest (3)

Chicano/Latino
AMCS 103 Contemporary Chicanos (3)
AMCS 203 Chicano Culture (3)
AMCS 303 Latinos in the United States (3)

Related Requirements
With the approval from department chair, AMCS 390: Topics in American Multicultural Studies may be substituted for one of the required courses, if appropriate.

SECONDARY EMPHASIS IN ANTHROPOLOGY (12 Credits)

Requirements (3 Credits)
This is the secondary emphasis in Anthropology for the Social Studies degree.
ANTH 115 Introduction to Archaeology (3)
OR ANTH 120 Introduction to Physical Anthropology (3)

Electives (9 Credits)
Students must choose at least nine credits of Anthropology electives.

SECONDARY EMPHASIS IN ECONOMICS (12 Credits)

Requirements (9 Credits)
This is the secondary emphasis in Economics for the Social Studies degree.
ECON 202 Principles of Economics I: Micro (3)
ECON 204 Principles of Economics II: Macro (3)
ECON 300 Global Economic Issues (3)

Electives (3 Credits)
The economics elective must be at the 300 level or above.

SECONDARY EMPHASIS IN GEOGRAPHY (12 Credits)
Requirements (6 Credits)
This is the secondary emphasis in Geography for the Social Studies degree. Students must take GEOS 110 and must also take one of the following courses: GEOS 235, GEOS 310, or GEOS 410.
GEOS 110 Introductory Physical Geography (3)
GEOS 235 Geography of Minnesota and North Dakota (3)
GEOS 310 United States and Canada (3)
GEOS 410 Eastern Europe and Russia (3)

Restricted Electives (6 Credits)
Students will complete 6 credits from the listed courses. Students may not fulfill the “Restricted Electives” section with any of the courses applied toward the “Requirements” section of this emphasis.
ANTH 307 Ecological Anthropology (3)
GEOS 225 Conservation (3)
GEOS 235 Geography of Minnesota and North Dakota (3)
GEOS 305 Oceanography (3)
GEOS 310 United States and Canada (3)
GEOS 320 Economic Geography (3)
GEOS 325 Reading Landscape: Ways of Seeing (3)
GEOS 330 Elementary Meteorology (3)
GEOS 405 Geographic Information Systems (3)
GEOS 410 Eastern Europe and Russia (3)

SECONDARY EMPHASIS IN HISTORY
(13 Credits)
Requirements (4 Credits)
This is the secondary emphasis in History for the Social Studies degree.
HIST 105 World History II (4)

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 Department
Lommen 83, (218) 477-2632
Chair: Mary Schroeder
Faculty: Jeremy Carney, Tracy Clark, Shawn Ginther, Susan Peterson, Amy Phillips
The Minnesota State University Moorhead Social Work Program is accredited by the Council on Social Work Education. The principle educational objective of the social work major is to prepare students for beginning professional social work practice. This course of study also prepares students for graduate education. The Bachelor of Social Work (BSW) degree is awarded upon completion of all university and social work major requirements both within the department and in related areas.

Transfer students with an AA or BA degree from another college or university are exempt from Minnesota State University Moorhead’s Liberal Studies requirement. However, social work majors who do not have the equivalent of two courses (minimum of five semester Credits) from Division F: Multicultural and Global Studies of the Liberal Studies requirement, must take such coursework from MSUM. At least one of these courses must be designated a multicultural course (F1).

Admission to the Major
Students who wish to major in social work must complete a formal admissions process, approved by the faculty advisor and submitted to the department the semester they are enrolled in SW 330, Human Behavior and the Social Environment (exceptions may be made for transfer students).

Criteria for Admission to Social Work
- the student must obtain a grade of “C” or higher on ALL Social Work courses;
- the student must have an overall MSUM GPA of 2.5 or higher at the time of application for admission;
- the student must have completed or be enrolled in SW 250 and SW 330, or their approved equivalents at other colleges or universities;
- the student must complete a self-evaluation essay;
- the student must complete a writing examination. Students lacking the necessary writing skills will be allowed to take the writing exam at the time of application, and if 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 Writing Site, or reconsidering the choice of major;
- the student must complete a minimum of 30 hours of supervised human service experience (volunteer or paid) prior to the application for admission to the program.

Current major requirements are available in the department. A grade of “C” or higher must be earned in all Social Work courses. A 2.5 GPA must be in place prior to internship and at the time of graduation. Students are encouraged to contact the department chair for further information or clarification.

STUDENT LEARNING OUTCOMES
Students are expected to:
- acquire knowledge necessary for entry level social work practice;
- acquire skills necessary for entry level social work practice;
- be knowledgeable about the National Association of Social Work Code of Ethics and demonstrate professional values through appropriate professional behaviors.

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

B.S.W. DEGREE IN SOCIAL WORK (73 Credits)
Requirements (42 Credits)
In addition to the required courses, students must take three credits of Social Work electives at the 400 level.
SW 250 Introduction to Social Welfare and Social Work (3)
SW 330 Human Behavior and the Social Environment (3)
SW 360 Research Methods in Social Work (3)
SW 420 Generalist Practice: Individuals (3)
SW 430 Generalist Practice: Families (3)
SW 440 Generalist Practice: Groups (3)
SW 450 Generalist Practice: Communities and Organizations (3)
SW 469 Internship (12)
SW 470 Senior Seminar (3)

Related Requirements (31 Credits)
BIOL 104 Human Biology (3)
ECON 100 The American Economy (3)
HIST 241 History of Social Welfare (3)
PARA 370 Government Benefits (3)
POL 120 American National Government and Politics (3)
PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)
MINOR IN SOCIAL WELFARE (27 Credits)

Requirements (6 Credits)
A minor in Social Welfare is not accepted by the Council on Social Work Education as adequate preparation for entry level social work practice; neither does a minor in Social Welfare qualify students to take state licensure examinations. This minor is offered solely for students’ learning in the area of social services. Students who seek a minor in Social Welfare must complete BIOL 104, PSY 113, PSY 202, and SOC 110 prior to enrolling in SW 330.

SW 250 Introduction to Social Welfare and Social Work (3)
SW 330 Human Behavior and the Social Environment (3)

Related Requirements (12 Credits)
BIOL 104 Human Biology (3)
PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)
SOC 110 Introduction to Sociology (3)

Electives (9 Credits)
Students must take at least nine credits of Social Work electives chosen from those listed as requirements for the major. Social Work majors will be given priority for class enrollment. Required or elective courses for a social work major may be taken as electives for the social welfare minor. (An internship in a related major does not meet the elective requirements.)
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.

See Languages and Cultures

Special Education Department
Lommen 209, (218) 477-2297
Chair: Linda Svobodny
Faculty: Katherine Anderson, Kevin Anderson, Deanne Borgeson, Britt Ferguson, Susan Severson, Steven Street
Additional information about education policies and degree requirements can be found under Teacher Education.

Major in Special Education
To be awarded a major in Special Education, a student must complete at least one licensure area, as a teacher of early childhood special education (ECSE), emotional/behavioral disorders (E/BD), developmental disabilities (DD), specific learning disabilities (SLD) or physical and health disabilities (P/HD). By combining components, a student may meet the requirements for multiple licensure.

To complete the major in Special Education, all students must complete at least ten weeks of full-time student teaching (10 credits). Students completing student teaching for two licenses within one semester may enroll for eight weeks of full-time student teaching for each license (8 credits each). Students receiving multiple licensure, either across general and special education or within special education, may complete half-time 10 week field experience (4 credits each) for each subsequent license.

All Special Education majors must complete the Undergraduate Teacher Education Core, Special Education Core, the Minnesota Human Relations Requirement, and at least one set of Special Education licensure requirements. MATH 303, PSY 113, PSY 202, and CMST 100 are related requirements that may be completed as part of liberal studies curriculum.

Policy for continuing enrollment in the special education major
Completion of the Pre-Professional Skills Test (PPST) is required before students can enroll in 300 and 400 level special education courses. Passing the PPST is mandatory before students will receive Minnesota licensure.

All student teaching or practicums in special education (SPED 451, 467, 468, 567, 568, 667, 668, 669) require a minimum GPA of 2.75 in Special Education prefix coursework.

STUDENT LEARNING OUTCOMES
Special Education teacher candidates:
• advocate for persons with disabilities;
• are adept at dealing with a variety of persons including families of persons with disabilities;
• understand transition and meeting the needs of persons with disabilities as they move into post secondary environments;
• are skilled in using information technology;
• treat the IEP as a process not a document;
• view themselves as part of a larger profession.

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

B.S. DEGREE IN SPECIAL EDUCATION
(81-87 Credits)
Core Requirements (12 Credits)
This Teacher Licensure core is required of all students majoring in one of the Special Education licensure areas: ECSE, SLD, P/HD, DD, or E/BD.
ED 205 Introduction to Education and Technology (2)
ED 205E Early Field Experience (1)
ED 294 Educational Psychology (3)
ED 310 Social Foundations of Education (3)
SPED 320 Educational Services for Individuals with Exceptionalities (3)

Requirements (9 Credits)
These courses are required of all students majoring in one of the Special Education licensure areas: ECSE, SLD, P/HD, DD, or E/BD.
SPED 443 Consultation and Collaboration in Special Education and Human Services (3)
SPED 471 Behavior and Environment Management (3)
SPEC 494 Legal/Social Foundations of Special Education (3)

Related Requirements (15 Credits)
These courses are required of all students majoring in one of the Special Education licensure areas: ECSE, SLD, P/HD, DD, or E/BD.
AMCS 233 Education and Multicultural America (3)
CMST 100 Speech Communication (3)
PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)

DD OPTION (84 Credits)
Core Requirements (36 Credits)
All students must complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

Requirements (38 Credits)
Students must take at least 10 credits in SPED 451D unless they have already received teacher certification.
SPED 413 Instructional Strategies (3)
SPED 417 Educating Students with Severe Disabilities (3)
SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
SPED 445 Remedial and Corrective Reading (3)
SPED 451D Student Teaching: Developmental Disabilities (8-10)
SPED 456 Functional Assessment and Curriculum (3)
SPED 459 Communication Programming for Persons with Severe Disabilities (3)
SPED 463 Assessment Strategies (3)
SPED 463L Assessment Lab (1)
SPED 467D Practicum: Developmental Disabilities (3)
SPED 470 Transitional Planning (3)

Related Requirements (10 Credits)
ED 343 Curricular Issues (3)
ED 367 Practicum: General Education (1)
EECE 341 Reading and Language Arts I (3)
MATH 306 Mathematics for Special Education (3)

E/BD OPTION (81 Credits)
Core Requirements (36 Credits)
All students must complete the courses listed under “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

Requirements (35 Credits)
Students must earn at least 10 credits in SPED 451C unless they have already received teacher certification.
SPED 413 Instructional Strategies (3)
SPED 445 Remedial and Corrective Reading (3)
SPED 451C Student Teaching: E/BD (8-10)
SPED 463 Assessment Strategies (3)
SPED 463L Assessment Lab (1)
SPED 464 Educational Planning and Adaptation for Students with Learning Problems (3)
SPED 467A Secondary Practicum: Mild Disabilities (3)
SPED 470 Transitional Planning (3)
SPED 473 Emotional/Behavioral Disorders (3)
SPED 478 Educational Interventions: Emotional/Behavioral Disorders (3)

Related Requirements (10 Credits)
ED 343 Curricular Issues (3)
ED 367 Practicum: General Education (1)
EECE 341 Reading and Language Arts I (3)
MATH 306 Mathematics for Special Education (3)

ECSE OPTION (82 Credits)
Core Requirements (36 Credits)
All students must complete the courses listed as “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

**Requirements (35 Credits)**
Students must take at least 10 credits in SPED 451E unless they have already received teacher certification.
- SPED 417 Educating Students with Severe Disabilities (3)
- SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)
- SPED 423 Young Children with Disabilities and Their Families (3)
- SPED 424 Assessment in Early Childhood Special Education (3)
- SPED 426 Infant Strategies (3)
- SPED 427 Instructional Strategies: Preschool (3)
- SPED 451E Student Teaching: ECSE (8-10)
- SPED 459 Communication Programming for Persons with Severe Disabilities (3)
- SPED 467E Practicum: Young Child Disabilities (2)
- SPED 467I Practicum: Infant/Interagency Services (2)

**Related Requirements (11 Credits)**
Students must earn at least two credits in EECE 467K.
- EECE 234 Play and Development (3)
- EECE 291 Foundations of Literacy (3)
- EECE 433 Preschool and Kindergarten Curriculum (3)
- EECE 467K Practicum: Pre-Primary (1-4)

**P/HD OPTION (87 Credits)**

**Core Requirements (36 Credits)**
All students must complete the courses listed as “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

**Requirements (41 Credits)**
Students must take at least 10 credits in SPED 451P 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 423 Young Children with Disabilities and Their Families (3)
- SPED 445 Remedial and Corrective Reading (3)
- SPED 447 Physical and Health Disabilities (3)
- SPED 451P Student Teaching: Physical and Health Disabilities (8-10)
- SPED 459 Communication Programming for Persons with Severe Disabilities (3)
- SPED 463 Assessment Strategies (3)
- SPED 463L Assessment Lab (1)
- SPED 467P Practicum: Physical and Health Disabilities (3)
- SPED 470 Transitional Planning (3)

**Related Requirements (10 Credits)**
- ED 343 Curricular Issues (3)
- ED 367 Practicum: General Education (1)
- EECE 341 Reading and Language Arts I (3)
- MATH 306 Mathematics for Special Education (3)

**SLD OPTION (81 Credits)**

**Core Requirements (36 Credits)**
All students must complete the courses listed as “Core Requirements”, “Requirements”, and “Related Requirements” under the B.S. Degree in Special Education.

**Requirements (35 Credits)**
Students must take at least 10 credits in SPED 451B unless they have already received teacher certification.
- SPED 413 Instructional Strategies (3)
- SPED 445 Remedial and Corrective Reading (3)
- SPED 451B Student Teaching: SLD (8-10)
- SPED 461 Learning Disabilities (3)
- SPED 463 Assessment Strategies (3)
- SPED 463L Assessment Lab (1)
- SPED 464 Educational Planning and Adaptation for Students with Learning Problems (3)
- SPED 467A Secondary Practicum: Mild Disabilities (3)
- SPED 470 Transitional Planning (3)
- SPED 475 Informal Assessment/Teaching Strategies: Students with Learning Disabilities (3)
Speech/Language/Hearing Sciences Department
Grier 100, (218) 477-2286
Chair: Bruce Hanson
Faculty and Clinical Staff: Richard Adler, Louis De Maio, Mary Drake, Jane McCabe, LaRae McGillivray, Nancy Paul, Marie Swanson, Kris Vossler

The academic programs offered in speech, language, and hearing at Minnesota State University Moorhead are designed for students who are interested in the normal and disordered processes of human communication. A major in this area is part of the preparation for clinical, teaching, research or service careers in speech-language pathology, audiology, and communication science. The major is also appropriate for those who will pursue careers in hearing conservation, education of the deaf or hard of hearing and related areas.

To practice as a speech-language pathologist or audiologist, the master’s degree is a nationwide requirement. The title of the undergraduate major, Speech/Language/Hearing Sciences, suggests that it is a pre-professional degree designed to qualify students for admission to professional study at the graduate level at this or other universities.

The department has established clinical experience eligibility requirements. All students must meet these requirements before enrolling in any course that requires that they provide assessment or treatment to individuals with communication disorders. The requirements are as follow:

• C- grade or better in all completed SLHS courses,
• a cumulative grade point average of 3.0,
• no outstanding grades of incomplete,
• 25 hours of supervised clinical observation and a completed speech and hearing screening.

If a student does not meet the stated requirements they may initiate an appeal through the department’s clinic coordinator.

Pre-audiology
Although the undergraduate program at other universities is usually the same for future speech-language pathologist and audiologists, the Speech/Language/Hearing Sciences Department at Minnesota State University Moorhead offers a pre-audiology concentration. The purpose of the pre-audiology concentration is to allow students interested in a career in audiology to follow a program of studies better tailored to their interest.

The graduate (M.S.) major is the professional degree. Its title, Speech-Language Pathology, suggests that it is the clinical degree in this field. Students completing the graduate program are qualified for clinical positions in communication disorders throughout the nation. Minnesota State University Moorhead’s program is accredited by the American Speech-Language-Hearing Association’s Council on Academic Accreditation.

Admission to any graduate program at Minnesota State University Moorhead is limited to those who qualify by virtue of their undergraduate grade point average, Graduate Records Examination score, and recommendations. Additional details about graduate study may be found in the Graduate Bulletin.

Students who plan to seek clinical positions in schools should complete any additional requirements established by the credentialing authority in the states where they would seek employment.

STUDENT LEARNING OUTCOMES
Students will:
• acquire fundamental information describing the bases, nature, development, and use of speech, language, hearing, and the total communication process;
• synthesize and evaluate specialized information describing the nature, etiology, assessment, and management of speech, language, and hearing disorders or differences;
• attain appropriate skill levels for clinical competencies as they progress through the program (undergraduate through graduate study);
• demonstrate skill in oral and written language.

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

B.S. DEGREE IN SPEECH/LANGUAGE/HEARING SCIENCES (59 Credits)
Requirements (48 Credits)
SLHS 101 Introduction to Speech/Language/Hearing Sciences (2)
SLHS 201 Phonetics (2)
SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
SLHS 204 Language Development (4)
SLHS 271 Introduction to Audiology (4)
SLHS 321 Articulation and Phonological Disorders (4)
SLHS 322 Language Disorders in Preschool Children (4)
SLHS 343 Clinical Procedures (3)
SLHS 347 Introduction to Augmentative and Alternative Communication (2)
SLHS 372 Audiometry (3)
SLHS 402 Neuroanatomy and Physiology of Communication (3)
SLHS 421 Voice Science and Disorders (2)
SLHS 424 Fluency Disorders (2)
SLHS 446 Clinical Experience (3)
SLHS 448 Program Management in Speech-Language Pathology (2)
SLHS 473 Rehabilitation Audiology (3)
SLHS 491 Research Applications in SLHS (2)

Related Requirements (11 Credits)
CMST 100 Speech Communication (3)
ENGL 387 Technical Report Writing (4)
MATH 236 Applied Statistics (4)

EMPHASIS IN PRE-AUDIOLOGY (61 Credits)
Requirements (38 Credits)
SLHS 101 Introduction to Speech/Language/Hearing Sciences (2)
SLHS 171 American Sign Language I (3)
SLHS 172 American Sign Language II (3)
SLHS 201 Phonetics (2)
SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
SLHS 204 Language Development (4)
SLHS 271 Introduction to Audiology (4)
SLHS 343 Clinical Procedures (3)
SLHS 372 Audiometry (3)
SLHS 402 Neuroanatomy and Physiology of Communication (3)
SLHS 446 Clinical Experience (3)
SLHS 473 Rehabilitation Audiology (3)
SLHS 491 Research Applications in SLHS (2)

Related Requirements (11 Credits)
ENGL 387 Technical Report Writing (4)
MATH 236 Applied Statistics (4)
PHYS 105 Physics of Music (3)

Electives (12 Credits)
Students must earn twelve elective credits from the following list of courses. These electives should be chosen in close consultation with a faculty advisor.
ACCT 230 Principles of Accounting I (3)
BIOL 241 Principles of Human Genetics (3)
CHEM 110 Fundamentals of Chemistry (4)
CHEM 180 Introduction to Organic and Biochemistry (4)
ECON 202 Principles of Economics I: Micro (3)
FINC 340 Financial Management (3)
MGMT 405 Small Business Management (3)
PSY 113 General Psychology (3)
PSY 202 Developmental Psychology (3)
PSY 348 Cognition and Perception (3)
PSY 402 Child/Adolescent Psychology (3)
PSY 403 Adulthood and Aging (3)
SLHS 321 Articulation and Phonological Disorders (4)
SLHS 322 Language Disorders in Preschool Children (4)
SLHS 347 Introduction to Augmentative and Alternative Communication (2)
SLHS 421 Voice Science and Disorders (2)
SOC 308 Social Gerontology (3)
MINOR IN SPEECH/LANGUAGE/HEARING SCIENCES (23 Credits)

Requirements (15 Credits)

A minor in SLHS is not equivalent to a Speech Pathology Assistant degree.

SLHS 101 Introduction to Speech/Language/Hearing Sciences (2)
SLHS 201 Phonetics (2)
SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)
SLHS 204 Language Development (4)
SLHS 271 Introduction to Audiology (4)

Electives (8 Credits)

Students must earn at least eight elective credits in SLHS courses. These courses are to be chosen in close consultation with a faculty advisor.

Teacher Education

See Elementary and Early Childhood Education, Secondary and K-12 (Kindergarten-Grade 12) Education, Special Education, and specific Secondary and K-12 teaching fields for requirements specific to various degrees. The requirements described below apply to all teaching licensures. All Minnesota State University Moorhead education programs are accredited by NCATE (the National Council for Accreditation of Teacher Education) and meet standards set by the Minnesota Board of Teaching.

Teacher Education Requirements

To be eligible for graduation and/or licensure in any teacher education major, the candidate shall fulfill all of the following requirements:

• admission to teacher education and retention in good standing;
• completion of a professional education sequence of courses appropriate to the level of teacher preparation;
• a sequence of early field experiences;
• student teaching; and
• passing scores on the PPST (Pre-Professional Skills Test) and the Praxis II tests.

Selective Admission and Retention in Teacher Education (SARTE)

Formal application for admission to teacher education is begun during the student’s first education course (ED 205). To be admitted to a program in teacher education, students must meet the following requirements. The requirements must be met before enrolling in 300- and 400-level courses with the prefixes: ED, EECE, and SPED. *Art 350 also requires SARTE acceptance for enrollment.

To be admitted to Elementary and Early Childhood Education Programs students must:

• complete 100- and 200-level courses in the Core Requirement section with a grade of “C-” or higher;
• have a GPA of 2.25 in Liberal Studies;
• have a cumulative GPA of 2.75;
• take the Pre-Professional Skills Test (PPST);
• submit verification of prior teaching experience with groups of children/adolescents;
• demonstrate ability to communicate effectively using written English. Students should consult with the department chair or advisor as there are a variety of ways in which this can be documented;
• write a letter requesting admission into the program that shows how experiences thus far relate to the unit’s conceptual framework;
• complete and attach Disposition Self-Evaluation form;
• attach a copy of the evaluation form from the first field experience (ED 205E);
• submit application for admission to Teacher Education.

To be admitted to Secondary and K-12 Education and Special Education programs students must:

• complete 100- and 200-level courses in the Core Requirement section with a grade of “C-” or higher;
• have a GPA of 2.25 in Liberal Studies;
• have a cumulative GPA of 2.5;
• take the pre-Professional Skills Test (PPST);
• write a letter requesting admission into the program that shows how experiences thus far relate to the unit’s conceptual framework;
• complete and attach Disposition Self-Evaluation form;
• attach a copy of the evaluation form from the first field experience (ED 205E);
• submit application for admission to Teacher Education.

Students who fail to maintain an overall GPA of 2.5 in Secondary Education, K-12 Education and Special Education or an overall GPA of 2.75 in Elementary and Early Childhood Education will be suspended from the respective program. The Teacher Education Admission and Retention Committee (TEARC) handles appeal processes.

NOTE: Departments may have additional requirements for admission to programs, admission to field experiences, graduation, or licensure. See your advisor for those requirements.
**Dismissal from Teacher Education**
A faculty member, cooperating teacher, or administrator of a school to which a student is assigned may request a review of a student’s professional dispositions or academic competence. As a result of this review, students may be required to complete remediation. Failure to successfully complete remediation will result in removal from the Teacher Education program.

**Professional Education Sequence**
Any curriculum leading to graduation and/or licensure with a teaching major shall include courses in the professional preparation of teachers designated by the appropriate MSUM Teacher Education department to comply with requirements of the Minnesota State Board of Teaching.

**Early Field Experiences**
All teacher education majors are required to complete a series of field experiences prior to student teaching. Education 205E is the first early field experience for all licensure areas and is usually taken during the sophomore year. Students must be admitted to Teacher Education to enroll in the subsequent 300- and 400-level early field experiences. Students need to arrange their schedules so that the required blocks of time needed to complete the field experiences are available during the school day. Transportation to the assigned school and liability insurance are arranged and paid for by the student.

**Student Teaching**
Students are to apply by posted deadlines for admission to student teaching. Deadlines are posted in the Field Experiences Office and on the web site. Application forms are available online at [www.mnstate.edu/fieldexp/](http://www.mnstate.edu/fieldexp/).

Student teaching placements are limited based upon availability of classroom teachers. Students should be prepared to travel within a radius of 60 miles. Transportation, food, lodging and liability insurance are arranged and paid for by the student.

Student teaching will be scheduled by the Field Experience Office for a predetermined period of time each semester. Student teachers will follow the calendar of the school in which they are placed during the assignment.

The requirements for admission to student teaching include:
- Admission and retention in teacher education, including GPA of 2.5 or 2.75 in major;
- GPA of 2.5 or higher in education core courses with a grade of “C” or higher in each course;
- GPA of 2.25 in liberal studies;
- Completion of program requirements including methods courses;
- Submission of application for student teaching by posted deadline.

**NOTE:** Departments may have additional requirements for admission to field experiences. See your advisor for those requirements.

**License Programs and Applications**
Completion of a degree including a teaching major and teacher education requirements are necessary to qualify for licensure. In addition, students must submit passing scores for both the Pre-Professional Skills Test (PPST) and the Praxis II, which comprises the Principles of Learning and Teaching, and required subject area content tests. Several majors include different concentrations or options leading to one or more specialized licenses in the major field.

Students who plan teaching careers are advised to examine all license options and contact the coordinator of such programs as early as possible.

A Curriculum Worksheet for Teaching License must be completed and signed by all license program coordinators and submitted to the Registrar before any license application may be processed. The applicant should secure such a worksheet from the Records Office (Owens 104) early in the senior year and return it to the Records Office as soon as possible after securing all signatures to prevent any delay in processing the license application.

Application forms for Minnesota licenses are available at the Records Office. Forms for other states should be requested from the appropriate state agencies.

Completed applications and checks or money orders for state license fees are submitted to the Records Office where they will be processed and forwarded after verification.

Minnesota State University Moorhead is authorized to endorse license applications to other states only for students who have fulfilled all requirements for approved license programs in Minnesota.

In 1998 the federal government passed Section 207 of the Higher Education Act (HEA) mandating that all institutions with teacher preparation programs in which students receive federal financial assistance prepare annual reports on teacher preparation and licensing. The reporting process started with all teacher education students graduating in the 1999-2000 academic year. The state of Minnesota mandates that students must pass the PRAXIS I and II battery of tests to receive a teaching license. Passing rates of MSUM candidates are available online at [www.mnstate.edu/edhuman/teachered/forms/MSUM_Title_IIa.pdf](http://www.mnstate.edu/edhuman/teachered/forms/MSUM_Title_IIa.pdf).

If you have any questions concerning Title II, please contact the Dean of Education and Human Services at (218) 477-2096.

**STUDENT LEARNING OUTCOMES**
MSUM teacher candidates:
- apply liberal studies content knowledge;
- understand student/child development and learning;
- demonstrate multicultural, gender-fair and disability sensitive values;
- employ appropriate group and individual instructional strategies;
• establish and maintain a productive learning environment;
• effectively use communication and interpersonal skills;
• design an organized, effective and appropriate curriculum;
• use appropriate group and individual assessment strategies;
• engage in lifelong learning;
• demonstrate professionalism, ethical behavior, and leadership;
• use technology in support of classroom instruction.

Candidates within the unit are becoming professionals who are knowledgeable, humanistic, creative and reflective.

Technology Department

Hagen 103, (218) 477-2104

Chair: Ronald Williams

Faculty: Norma Andersen, Tristia Conzemius, Aziz Kian, Michael Ruth, Scott Seltveit, Wade Swenson

The Department of Technology houses three B.S. degree programs and two pre-professional transfer programs. Please see the listings by program:

• B.S. Construction Management - see Construction Management
• B.S. Graphic Communications - see Graphic Communications
  • Option in Digital Design and Production
  • Option in Multimedia Development
• B.S. Industrial Technology - see Industrial Technology
  • Option in Industrial Distribution
  • Option in Industrial Management
• B.S. Operations Management -- see Operations Management (2+2)
• Pre-transfer: Architecture - see Architecture
• Pre-transfer: Engineering - see Engineering

Communication Studies, Film Studies, and Theatre Arts Department

Roland Dille Center for the Arts 116, (218) 477-2126

Chair: Craig Ellingson

The Minnesota State University Moorhead Theatre Arts program is dedicated to two primary goals. The first is to provide our students with high-caliber training in theatre that prepares them to create theatre of any kind at any level. The second is to provide the Red River Valley area with a multifaceted, high-quality theatrical experience. These goals interweave to provide entertainment and education to those on both sides of the curtain.

Theatre Arts at MSUM is production oriented and students are involved in construction, costuming, lighting, sound, and make-up, as well as performing, stage directing, and publicity. Students may pursue one or more emphases including Acting, Directing, and Theatre Technology and Design.

The faculty and students of the Communication Studies, Film Studies, and Theatre Arts Department are linked together by a common focus on the creation and analysis of messages that powerfully affect their chosen audience. In each of the three areas of the department – Communication Studies, Film Studies, and Theatre Arts – we provide a challenging, contemporary, relevant curriculum within the contest of the Liberal Arts that prepares our graduates to become contributing and ethical citizens in a diverse, global community. We promote creativity, critical thinking, and lifelong discovery through courses that integrate theory and history with practice and application.

STUDENT LEARNING OUTCOMES

Students who graduate with a degree from Minnesota State University Moorhead with a major in Theatre Arts should meet the following objectives:

• Students will demonstrate knowledge and understanding of theatre history, literature, and dramatic theory, and have an ability to communicate effectively about these topics.
• Students will demonstrate the ability to analyze, design and construct theatrical scenery, lighting, costumes, sound and props using appropriate tools and technology, and have an ability to effectively communicate about this process.
• Students will act in a variety of performance styles, and demonstrate the ability to communicate effectively their knowledge and understanding of this process.
• Students will direct for the theatre, and demonstrate the ability to effectively communicate their knowledge and understanding of this process.
UPPER LEVEL WRITING REQUIREMENT
Majors in Theatre Arts will meet the upper level writing requirement through THTR 322 – Development of Drama I and THTR 323 – Development of Drama II.

B.A. DEGREE IN THEATRE ARTS (49 Credits)
Core Requirements (25 Credits)
The core is required of all students majoring in one of the Theatre Arts concentrations: Acting, Directing, or Technical Theatre. A grade of “C-” or higher in THTR 496 is required for graduation. Students must enroll in theatre practica for four semesters to earn the total 25 credits required. With the permission of the student’s advisor and the department Internship Committee, six credits of THTR 469 may be substituted for THTR 496.
CMST 100 Speech Communication (3)
THTR 140 Dance for the Stage I (3)
THTR 220 Introduction to Theatre (3)
THTR 230 Principles of Acting (3)
THTR 235 Principles of Stage Directing (3)
THTR 255 Technical Theatre Methods (3)
THTR 496 Senior Seminar (3)

EMPHASIS IN ACTING (49 Credits)
Core Requirements (25 Credits)
Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Theatre Arts.
Requirements (21 Credits)
THTR 322 Development of Drama I (3)
THTR 323 Development of Drama II (3)
THTR 331 Scene Study (3)
THTR 333 Movement for Acting (3)
THTR 334 Voice for Acting (3)
THTR 355 Scene Design I (3)
THTR 430 Acting Styles (3)
Electives (3 Credits)
Students must take three credits in theatre electives which are at the 300 level or higher.

EMPHASIS IN DIRECTING (49 Credits)
Core Requirements (25 Credits)
Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Theatre Arts.
Requirements (21 Credits)
THTR 322 Development of Drama I (3)
THTR 323 Development of Drama II (3)
THTR 331 Scene Study (3)
THTR 333 Movement for Acting (3)
THTR 334 Voice for Acting (3)
THTR 335 Advanced Stage Directing (3)
THTR 355 Scene Design I (3)
Electives (3 Credits)
Students must take three credits in theatre electives which are at the 300 level or higher.

EMPHASIS IN TECHNICAL THEATRE
(49 Credits)
Core Requirements (25 Credits)
Students must complete all courses listed as “Core Requirements” under the B.A. Degree in Theatre Arts.
Requirements (18 Credits)
THTR 322 Development of Drama I (3)
THTR 323 Development of Drama II (3)
THTR 335 Advanced Stage Directing (3)
THTR 355 Scene Design I (3)
THTR 356 Advanced Technical Theatre Methods/ Lighting (3)
THTR 450 Scene Design II (3)
Electives (3 Credits)
Students must take six credits in theatre electives which are at the 300 level or higher.

MINOR IN THEATRE ARTS (25 Credits)
Requirements (19 Credits)
CMST 100 Speech Communication (3)
THTR 140 Dance for the Stage I (3)
THTR 220 Introduction to Theatre (3)  
THTR 230 Principles of Acting (3)  
THTR 235 Principles of Stage Directing (3)  
THTR 255 Technical Theatre Methods (3)  

**Electives (6 Credits)**  
Students must take six credits in theatre electives which are at the 300 level or higher.

**MINOR IN THEATRE DANCE (21 Credits)**  
**Requirements (16 Credits)**  
THTR 140 Dance for the Stage I (3)  
THTR 240 Dance for the Stage II (3)  
THTR 324 Musical Theatre History (3)  
THTR 333 Movement for Acting (3)  
THTR 340 Principles of Choreography (3)  
THTR 440 Dance Production (1)  

**Related Requirements (5-6 Credits)**  
PE 320 Anatomical Kinesiology (3)  
MUS 110 Musicianship for Non-Majors (2)  
OR MUS 111 The Art of Listening (3)  

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**Continuing Studies Office**  
811 11th Street South, (218) 477-2182  
**Program Advisor:** Yvonne Johnson  

The University Studies major is intended for those students whose goals have changed and who no longer want, or are able, to complete their original major.

**Requirements (128 credits)**  
- 45 credits: Liberal Studies requirements  
- 36 credits: a partial major program or rubric;  
- no more than 30 total credits from the areas of Accounting, Finance, Management and Marketing may be included in the partial major program or rubric;  
- 21 credits: additional single rubric coursework or an area of concentration  
- 26 credits: free electives  

Students must also fulfill the following requirements:  
- 40 credits of the degree program must be at the 300-400 level;  
- 30 credits of the last 64 credits and 8 of the last 12 credits must be earned at MSUM;  
- major may be declared as late as the semester prior to graduation, but not before attaining junior standing;  
- both the partial major or rubric and the additional coursework with at least a 2.0 GPA must be approved by the advisor and student and approved by the dean as a part of the degree program;  
- areas of the concentration are proposed by the advisor and student and approved by the dean as a part of the degree program;  
- 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.

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**Cooperative Degree Program**  
**Biosciences Department**  
**King Hall 103, (218) 477-2572**  
**Chair:** Donna Bruns Stockraham  

Students interested in jobs or graduate school in Wildlife Biology complete a pre-wildlife management program within the Biology major through selection of appropriate upper-division electives.
Women's Studies Office
MacLean Hall 271N, (218) 477-4056
Program Coordinator: Laurie Blunsom

Women's Studies Curriculum
The Women’s Studies program at MSUM has been ongoing since 1971 and provides an interdisciplinary study of women from the perspectives of the arts, humanities, social and natural sciences. Students will evaluate and integrate various kinds of knowledge to critically analyze current attitudes toward women and gender and to examine the experiences of women. The Women’s Studies Minor provides students a valuable opportunity to study women’s roles and experiences throughout history.

For further information about the Women’s Studies Program, please visit our website: www.mnstate.edu/women.

MINOR IN WOMEN'S STUDIES (18 Credits)

Requirements (9 Credits)
WS 247 Women’s Studies (3)
WS 314 Introduction to Feminist Theory (3)
WS 412 Seminar in Women’s Studies (3-4)
OR WS 495 Topics in Feminist Theory (3)

Electives (9 Credits)
Three courses are required. Students may use only two courses from the same academic area. Other courses may be allowed with prior approval of the program coordinator. If you choose ENGL 248 or MC 496, the topic must relate to Women’s Studies.
AMCS 372 Dynamics of Prejudice and Oppression (4)
ENGL 248 Introduction to American Ethnic Literature (3)
HIST 350 Women in European History (4)
HIST 375 Women in United States History (3)
MC 415 Gender and Media (3)
MC 496 Mass Communications Seminar (3)
PHIL 372 Dynamics of Prejudice and Oppression (4)
PSY 310 Psychology of Women (3)
WS 219 Sociology of Sexual Behavior (3)
WS 232A Women’s Roles and Socialization in 19th and 20th Century America (2)
WS 232B Women’s Roles and Socialization in 19th and 20th Century America (1)
WS 246 Women in Literature (3)
WS 294 Women and Sport (3)
WS 300 Biology of Women (3)
WS 303 Cross Cultural Gender (3)
WS 308 Social Gerontology (3)
WS 310 Dominant-Subordinate Group Relations (3)
WS 312 Women and the Humanities (3)
WS 320 Sociology of the Family (3)
WS 333 Sociology of Gender (3)
WS 395 Topics in Women’s Studies (3)
WS 408 Women and Art (4)
WS 410 Directed Readings in Women’s Studies (1-3)
WS 416 Violence in the Family (3)
WS 495 Topics in Feminist Theory (3)