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1999

## **The Bulletin, Undergraduate Catalog 1999-2001 (1999)**

Moorhead State University

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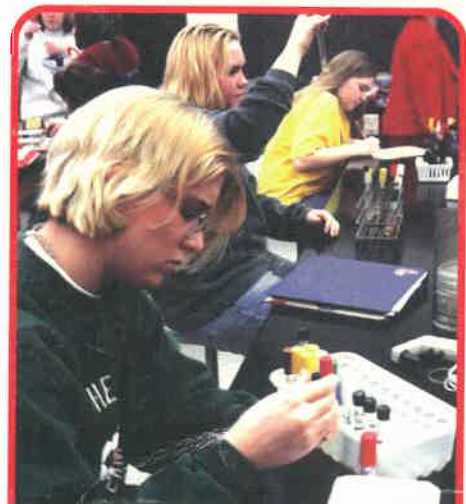
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Moorhead State University | Undergraduate Catalog

THE  
BULLETIN  
1999-2001



**MOORHEAD  
STATE UNIVERSITY**  
For Your Life



# Moorhead State University

## THE BULLETIN

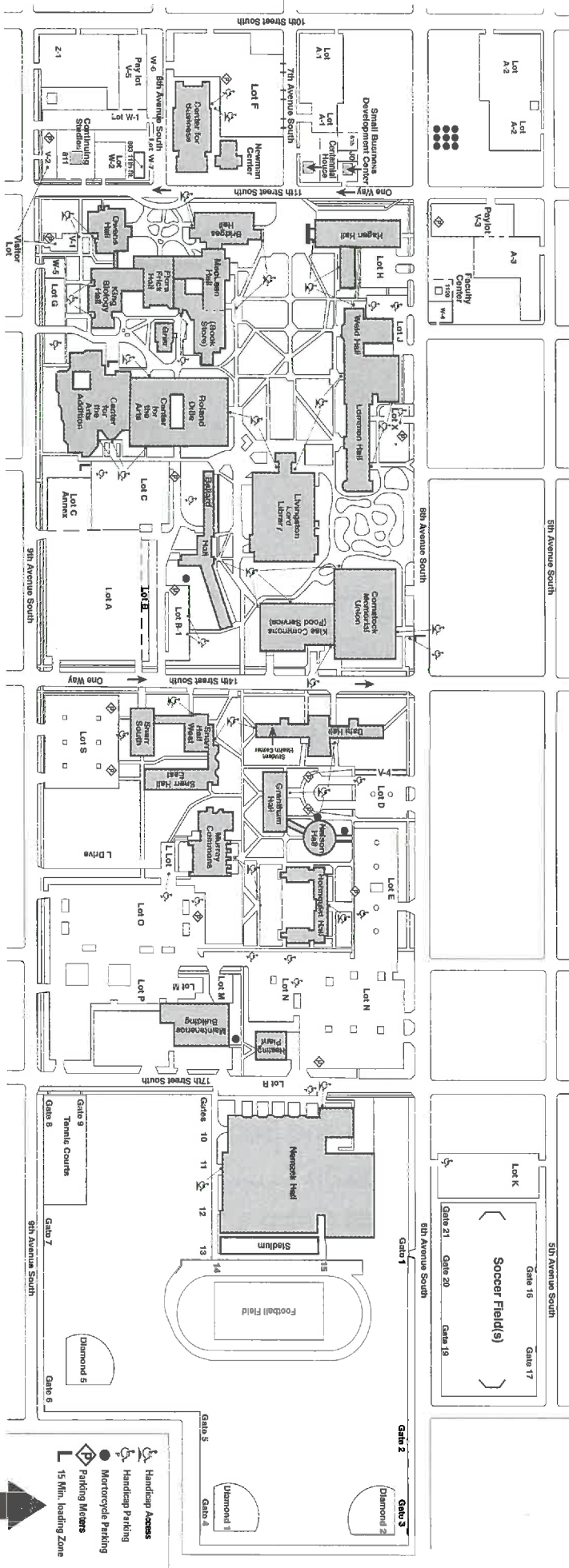
1999-2001

### Undergraduate Catalog

<b>Frequently Called Phone numbers</b>	<b>Area Code (218)</b>
Academic Affairs .....	236-2765
Administrative Affairs .....	236-2156
Admissions Office .....	236-2161
Bookstore .....	236-2111
Business Office .....	236-2221
Career Services .....	236-2131
Continuing Studies .....	236-2182
Financial Aid Office .....	236-2251
Health Center .....	236-2211
Housing and Security Office .....	236-2118
Information .....	236-2011
Records Office .....	236-2565
Scholarship Office .....	236-2151
Security Office .....	236-2449
Student Affairs Office .....	236-2171

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

# Moorhead State University Campus



## Buildings

**BALLARD HALL**—Residence Hall, Housing & Security Office, Night Watch

**BRIDGES HALL**—Dean of Natural and Social Sciences, Dean of Arts and Humanities, Computer Science Information Systems, Counseling Center, Philosophy, Planetarium, Psychology, Women's Center

**CENTER FOR BUSINESS**—Dean of Business & Industry, Accounting, Business Administration, Business Law, Legal Assistant

**CONSTOCK MEMORIAL UNION**—Advocate, Career and Placement Services, Design Center, Disability Services, Excetera Shop, Copies Plus, Job Shop, KWSC, Snack Bar, Outing Center, Recreation Center, Student Orientation, Student Senate, CAB, Office of Minority Student Affairs, International Student Office, Student Development, Student Organizational Resource Center, Studio 1 Hair and Tanning Salon, Underground, Union Station/Pizza Hut/Burger King

**DAHL HALL**—Residence Hall, Student Health Center, SOTA Lounge

**FRICK HALL**—Printing and Duplicating, Student Advisors' Office, Publications, News Services, Mass Communications, International Programs

**GRIER HALL**—Speech/Language/Hearing Sciences

**HAGEN HALL**—Physics/Astronomy, Chemistry, Pre-Engineering, Regional Science Center Offices, Technology HEATING PLANT

**HOLMQUIST HALL**—Residence Hall

**KING BIOLOGY HALL**—Biology

**LIVINGSTON LOBBY LIBRARY**—Dean of Academic Services, Audio-Visual, Library Services, Audio-Visual Center, Computer Center, Graduate Degree Progress—See Dean of Academic Services

**LOMMEN HALL & ADDITION**—Dean of Education and Human Services, Education & Regional Services, Clinical & Field Experience, Elementary & Early Childhood, Human Relations, Secondary Ed & Foundations, Special Ed & Counseling, Geography/Geology, MSU Pre-School, Sociology/Anthropology, Criminal Justice, Social Work, Preschool

**MACLEAN HALL**—Bookstore, Dragon Stop Convenience Store, Economics, History, Languages, Mass Communications, Mathematics, Political Science, Multicultural Studies, Humanities, Central Stores

**MAINTENANCE BUILDING**—Buildings and Grounds, Custodial Services, Motor Pool, Receiving, Residence Hall Vending, Shops, Scheduling, Physical Plant

**MURRAY COMMONS**—The New Center for Multidisciplinary Studies, Nursing

**NEILSON HALL**—Residence Hall

**NEMZK HALL**—Health, Physical Education, Intramurals, Athletics, Sports Information, Athletic Training Room, Weight Room

**OWENS HALL**—Administration Building President's Office, Academic Affairs, Administrative Affairs/Parking, Admissions, Alumni Foundation Office, Business Office, Financial Aid, Graduate Program—See Admissions, Human Resources, Information Center, Post Office, Purchasing—See Business Office, Registrar, Student Affairs, Vending—See Business Office

**ROLAND DILLE CENTER FOR THE ARTS**—Art, Music, Speech and Theatre

**WELD HALL**—English, Television Center  
611 11th St. So.—Psychology Program  
615 11th St. So.—Small Business Development Center  
803 11th St. So.—FFCC Gateway Program  
811 11th St. So.—External Studies, Continuing Studies, Graduate Program Admissions & Counseling  
1120 6th Ave. So.—Faculty Center  
1026 7th Ave So.—Centennial House

## Parking Lots

- P All University Permits
- R Faculty/Staff & Computers as per signage
- S Residents
- V-1 Visitors-Metered Parking—30 min. maximum
- V-2 Admissions Visitors & Visitors Metered Parking—2hr. maximum
- V-3 Paylot-50/Hour
- V-4 Reserved/Hendrix Health Center Visitors
- V-5 Paylot-50/hour
- W-1 Faculty/Staff Reserved
- W-2 Faculty/Staff Reserved
- W-4 Faculty/Staff Reserved
- W-5 Faculty/Staff Reserved
- W-6 Faculty/Staff Reserved
- X Parking
- Z-1 Reserved Parking
- Motorcycle Parking



# Table of Contents

<b>Accreditation</b> .....	<b>1</b>
<b>Access to Information</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>Academic Programs</b> .....	<b>4</b>
Baccalaureate Degrees • Liberal Arts and Professional Majors • Teacher Preparation • Bachelor of Fine Arts • Business Studies • Pre-Professional Studies • Covered Degree Programs • Dual Degree Programs • Two-Year Associate Degree • Graduate Studies • Teaching License Programs • Elementary or Secondary Teaching • Licensure in Special Fields • State University Common Market • Tri-College University • Reserve Officers Training Corps • Individualized Major • Universities Studies Major • New Center for Multidisciplinary Studies • Continuing Studies • National Student Exchange • Internship • International Study Opportunities	
<b>Facilities and Services</b> .....	<b>10</b>
Residence Halls • Dining Facilities • Campus Security • Comstock Memorial Union • Livingston Lord Library • Science Facilities • Planetarium • Regional Science Center • Bookstore • Roland Dille Center for the Arts • Alcohol/Drug Awareness Program • Counseling and Personal Growth Center • Write Site • Audiovisual and Television Services • Disability Services • Speech-Language-Hearing Clinic • Veterans Office • Early Education Center • Career Services • Moorhead State University Alumni Foundation • Women's Center	
<b>Student Information</b> .....	<b>15</b>
Student Affairs • Student Senate • Peer Advisor Program • Activities and Organizations • Intramural Athletics • Women's Athletics • Men's Athletics • Speech-Theatre Activities • Music Performance Activities • Comstock Memorial Union • Roland Dille Center for the Arts • Other Fee-Funded Activities • Student Organizations • Parking and Traffic Regulations • Housing Policies • Health Service • Health Insurance • Immunization Requirements	
<b>Admissions</b> .....	<b>18</b>
Office of Admissions • Freshman Admission • Admission to the New Center for Multidisciplinary Studies • Transfer Admission • Non-traditional Students • Undergraduate Special Students • Readmission • Permanent Resident Admissions • International Students • International Admissions • Enrollment Options for High School Students	
<b>Financial Information</b> .....	<b>24</b>
University Expenses • Tuition Rates • Comprehensive Student Fee • Resident and Non-Resident Tuition Status • Reciprocal Tuition Agreements • Minnesota-Manitoba Reciprocity • Midwest Student Exchange Program • Payment of Tuition and Fees • Registration Reinstatement • Refund of Tuition/Fee Payments due to Withdrawal • Housing and Dining Contracts • Financial Aid • Types of Financial Aid • Policy Standards for Financial Aid • Minnesota Grant Eligibility • Withdrawals and Repeated Courses • Scholarship Funds	
<b>Academic Information</b> .....	<b>32</b>
Academic Change of Requirements • Academic Year • Units of Credit • Graduation Requirements • Four-Year Graduation Guarantee • Liberal Studies • Liberal Studies Worksheet • Academic Planning Worksheet • Minnesota Transfer Curriculum • Freshman Year Requirements • First Year Experience (FYE) • Advising • Individualized and University Studies Majors • Minors Through Exchange • Teaching Majors and Minors • Associate Degree • Resident Credits • Armed Service Credits • Transfer of Credits • Minnesota Transfer Curriculum • Program Collaboration and Articulation Agreements • Advanced Placement • Credit by Departmental Examination • International Baccalaureate • Credit by CLEP Examination • Credit for Prior Learning • Pass-No Credit Grades • Pass-Fail Courses • Auditing Courses • Grades and Grade Points • Grade Point Average • Incomplete Credits • Repeating Courses • Academic Standing • Academic Forgiveness Policy • Academic Suspension • Academic Honors • Classification of Students • Internship Policies • Background Checks • Student Liability • Registration Procedures • Evening Course Registration • Off-Campus Registration • Late Payment • Tri-College University Registration • Excess Credit • Change of Program—Adding or Dropping Courses • Withdrawal from Enrollment • Military Withdrawal • Family Educational Rights and Privacy Act • Appeal of Academic Policies	
<b>Curricula</b> .....	<b>47</b>
<b>Courses</b> .....	<b>135</b>
<b>Administration</b> .....	<b>238</b>
<b>Faculty</b> .....	<b>239</b>
<b>Emeriti</b> .....	<b>251</b>
<b>Index</b> .....	<b>253</b>



# Accreditation

- **North Central Association Undergraduate Program**

Moorhead State University is accredited by the North Central Association of Colleges and Secondary Schools, (see [www.ncacihe.org](http://www.ncacihe.org), 312-263-0456) to offer undergraduate four-year college programs leading to Baccalaureate degrees.

- **Graduate Program**

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

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

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

- **American Bar Association**

Moorhead State University's program in Paralegal is accredited by the American Bar Association.

- **American Chemical Society**

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

- **American Council of Construction Education**

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

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

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

- **Council on Social Work Education**

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

- **National Association of Industrial Technology**

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

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

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

- **National Association of Schools of Music**

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

- **National League for Nursing**

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

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*Moorhead State University is committed to a policy of nondiscrimination in employment and education opportunity. No person shall be discriminated against in the terms and conditions of employment, personnel practices, or access to and participation in, programs, services, and activities with regard to race, sex, color, creed, religion, age, national origin, disability, marital status, status with regard to public assistance, sexual orientation, or membership or activity in a local commission as defined by law. Inquiries regarding compliance should be referred to the Affirmative Action Officer, (218) 236-2229 (Voice). For TTY Communication, contact the Minnesota Relay Service at 1-800-627-3529.*

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

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

**This document can be made available in alternative form by calling (218) 299-5859 V/TDD.**



# Access to Information

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

## **Academic Policies and Procedures**

The University's academic policies may be found in the University *Bulletin* (catalog) and Student Handbook. Information on academic policies and procedures may be obtained at the offices of Academic Affairs, Student Affairs, Admissions, Records, and Office of Scholarship and Financial Aid.

## **Campus Security Report**

The purpose of the report is to inform the campus of campus crime prevention programs, crime reporting procedures, emergency response and a three-year statistical history of criminal activity on campus. A copy of the Campus Security Report is distributed annually to students and employees and is available from the offices of Admissions, Security, Student Affairs, and Human Resources. Prospective students and employees may call (1-800-593-7246) to obtain copies.

## **Drug Free Workplace and Schools**

The purpose of this policy is to set forth the University's policy regarding alcohol and other drug use, including unlawful drug use or abuse in the workplace in accordance with the Drug Free Workplace Act of 1988 (Public Law 100-690, Title V, Subtitle D), and Drug Free Schools and Communities Act Amendments of 1989 (Public Law 101-226). A copy of the Drug Free Workplace information is distributed in the class schedule and may be obtained from the Records Office or Health Center.

## **Equity in Athletics Disclosure Act**

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

## **Family Education Rights and Privacy Act (FERPA)**

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

## **Financial Aid**

The purpose of financial aid is to assist students with college-related expenses. Financial aid and scholarship information is available at the Office of Scholarship and Financial Aid. Information concerning financial aid refund and repayment policies are included in the Student Handbook and may be obtained in the Office of Scholarship and Financial Aid and Business Offices.

## **Student Right to Know**

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

# Introduction

Moorhead State University, with an enrollment of more than 6,650 full- and part-time students, offers more than 100 majors including emphases and options which lead to baccalaureate, master's or specialist's degrees or certification, as well as 20 areas of pre-professional studies and covered programs. As a part of the higher education system established by the State of Minnesota, the University provides the advantages of quality education at the lower costs made possible by the support of Minnesota's citizens.

## Mission

The mission of Moorhead State University is to foster excellence in teaching and learning. The University strives to provide an educational environment that supports intellectual development, that welcomes diversity and that develops the skills and talents of women and men so that they have the capacity to live usefully, act responsibly and be learners all their lives. The academic programs at the University are founded upon a common liberal studies experience and emphasize developing the unique talents of each person. The University provides baccalaureate-level programs in the liberal arts, natural and social sciences, teacher education, business and technology, the fine arts, and professional areas. It provides selected graduate programs in response to regional needs.

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

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

## History

In 1885, State Senator Solomon G. Comstock introduced legislation to establish a Normal School at Moorhead. The institution was established by the Minnesota State Legislature in 1887. The University began on six acres donated by Senator Comstock. The first ten students graduated from its two-year curriculum in 1890. Major historical changes occurred in 1921, when it became Moorhead State Teachers College, authorized to offer the four-year degree of Bachelor of Science in Education; in 1946, when the Bachelor of Arts was added; in 1957, when the official name became Moorhead State College; and in 1975, when the school became Moorhead State University.

## The Campus

Most of the 23 major buildings on the 119-acre campus have been constructed since 1957, including a new Center for Business building that opened Fall semester 1995. Other campus buildings include eight residence halls, the Livingston Lord Library, Comstock Memorial Student Union, Kise Common food service, Roland Dille Center for the Arts, the Regional Science Center, nine

classroom buildings and the Nemzek Hall complex for men's and women's physical education, health and athletics, and Owens Hall administration building.

## The Faculty

There are more than 300 members of Moorhead State University's faculty. More than 75 percent of them hold the highest degree in their fields. Class sizes average slightly less than 24 and approximately 73% of the regular undergraduate classes at MSU have enrollments below 30 students.

## Student Enrollment and Retention

Fall Semester enrollment was 6,666 in 1998. This number includes 1,705 students living in campus residence halls, 5,078 full-time students and 1,588 part-time students.

Each fall for the past five years, an average of 1,118 new freshmen and 601 new transfer students have entered the University to enroll in degree programs or begin curricula that may eventually be completed at other institutions.

For information about the academic progress of students and the number who complete degrees, consult the Records Office, (218) 236-2565.

## The Community

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

The character of this metropolitan community of more than 150,000 is also determined by its rural traditions. Situated in the rich farming land of the Red River Valley, Fargo-Moorhead is the hub for wholesale and retail trade, communications, transportation, industry, and medical care in the Upper Midwest.

# Academic Programs

## Baccalaureate Degrees

The four-year degrees available from Moorhead State University include the Bachelor of Arts, Bachelor of Science, Bachelor of Science in Nursing, Bachelor of Music, and the Bachelor of Social Work. Each requires the satisfactory completion of 128 credits of college courses and includes 45 credits in Liberal Studies, from 32-64 credits in a major area, and the remainder in electives. While no minor is required, students may choose from more than 60 possible minor programs. Information about the Liberal Studies requirement may be found in the Academic Information section and requirements for the various majors and minors are listed in the Departments and Curricula section of this catalog.

## Liberal Arts and Professional Majors

Liberal Arts and other non-teaching major programs include:

Accounting	International Business
American Studies	Languages
Anthropology	Management
•Archaeology	Management Information Systems
Art	Marketing
•Art History	Mass Communications
•Ceramics	•Advertising
•Graphic Design	•Broadcast Journalism
•Painting	•Integrated Advertising and Public Relations
•Photography	•Online Journalism
•Pictorial Illustration	•Photojournalism
•Printmaking	•Print Journalism
•Sculpture	•Public Relations
Athletic Training	Mathematics
Biology	•Actuarial Science
•Biotechnology	•Computation
Business Administration	Medical Technology
Chemistry	Music
•Biotechnology	Music Performance
Community Health	•Composition
Computer Information Systems	•Keyboard
Computer Science	•Jazz and Studio Music
Construction Management	•Voice
Criminal Justice	•Wind, String, or Percussion Instrument
Cytotechnology	Music Industry
East Asian Studies	•Music Business
Economics	•Computer Music
•Business Economics	•Digital Imaging/Audio
English	•Film/Video Music
English/Mass Communications	Nursing (open to registered nurses)
Finance	Paralegal
Gerontology	•Civil Litigation
Graphic Communications	•Criminal Litigation
Health Services Administration	•Probate and Real Estate
History	•Public Interest
Individualized Major	

Philosophy	Speech/Language/Hearing Science
Physical Education	•Pre-audiology
•Fitness and Sport Science	Technology
Physics	•General Technology
•Physics with Business	•Industrial Distribution
Political Science	•Industrial Management
Psychology	Theatre Arts
Social Work	•Acting
Sociology	•Directing
Spanish	•Technical Theatre
Speech Communication	University Studies
•Professional Communication	
•Film and Telecommunications	• designates Emphases or Options

## Teacher Preparation

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

Art Education	Special Education
Early Childhood Education	•Developmental Disabilities
Elementary Education	•Early Childhood Special Education
English Education	•Emotional/Behavioral Disorders
Health Education	•Physical and Health Disabilities
Life Science Education	•Specific Learning Disabilities
Mathematics Education	Speech Communication/Theatre Arts Education
Music Education	Speech/Language/Hearing Science
•Instrumental	
•Vocal	
Physical Education	
Physical Science Education	
Social Studies Education	
Spanish Education	

• designates Emphases or Options

## Bachelor of Fine Arts

This degree is offered as a professional program in the visual arts and is normally a five-year program. See Art.

## Business Studies

Students interested in pursuing a business field may choose from majors in Accounting, Business Administration, Finance, International Business, Management, and Marketing. Students are identified as pre-business majors until completion of a core of preparation courses and accumulation of 60 credits. Upon meeting these requirements, an application for admission to a specific major is completed. See Accounting or Business Administration sections of this *Bulletin* for further details.

## Pre-Professional Studies

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

Agriculture*	Mortuary Science
Architecture*	Nursing
Athletic Training	Occupational Therapy
Chiropractic	Optometry
Dentistry	Pharmacy*
Engineering*	Physical Therapy
Forestry	Physician's Assistant
Geology*	Veterinary Science
Law	Wildlife Management*
Medicine	

\* designates "Covered Programs" available through TCU.

## Covered Degree Programs

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

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

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

### Covered Programs Available to NDSU Students at MSU:

American Studies  
 Art (ceramics, graphics and design, print making, sculpture)  
 Criminal Justice  
 Education (elementary, health, and special)  
 Graphic Communication  
 Music (stringed instruments)  
 Philosophy  
 Social Work  
 Speech/Language/Hearing Science  
 Technology

### Covered Programs Available to MSU Students at NDSU:

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

Architecture

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

Geology

Pharmacy

Wildlife and Fisheries Biology

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

## Dual Degree Programs with the University of Minnesota

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

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

## Two-Year Associate Degree

MSU offers the two-year Associate in Arts (A.A.). This degree requires 64 credits for completion but is so designed that students may continue to study for a baccalaureate degree should educational plans change. Information about the Associate Degree may be found in the "Associate Degree" section.

## Graduate Studies

Graduate students at MSU may earn the Master of Arts in Music, Master of Fine Arts (MFA) in creative writing, Master of Liberal Arts (MLA), Master of Science or Specialist degree. The Master of Science programs are available in: Counseling and Student Affairs, Curriculum and Instruction, Educational Administration, Music Education, Public and Human Service Administration, Reading, School Psychology, Special Education, and Speech-Language Pathology. Specialist programs are available in Educational Administration and School Psychology.

Complete information on graduate programs is provided in a separate Graduate Bulletin. Questions related to graduate programs should be directed to the particular department of interest or the Dean of Academic Services at (218) 236-2923.

## Teaching License Programs

Many enroll at MSU in programs that will provide the academic requirements for licensure in various fields of education. Upon completing one of these programs, students should apply for licensure through the Records Office. If the license program is combined with study for a postgraduate degree, students must meet admission requirements established by the Office of Graduate Studies. Complete information on specific programs is provided in the curriculum section of this *Bulletin*. Questions should be directed to specific departments or to Director of Teacher Education, (218) 236-2297.

## Elementary or Secondary Teaching

Those who hold baccalaureate degrees without a teaching license may earn a Bachelor of Science degree from MSU or complete the academic requirements for licensure by following procedures in the section on Education programs. *Requirements are subject to change.*

## Licensure in Special Fields

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

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

Developmental/Adapted Physical Education  
Developmental Disabilities  
Early Childhood Education  
Early Childhood Special Education  
Elementary Remedial Reading  
Emotional/Behavioral Disorders  
English as a Second Language  
Kindergarten  
Life Science  
Middle School Science  
Physical and Health Disabilities  
Physical Science  
Pre-Kindergarten  
School Psychologist  
School Social Worker I  
Secondary Developmental Reading  
Secondary Remedial Reading  
Specific Learning Disabilities  
Speech Correction

Because of variations in specific requirements for each license, candidates should first contact the appropriate University department for information and continue to work closely with an advisor. Minnesota licensure does not guarantee reciprocal licensure in other states. Therefore, students who intend to teach in other states should contact licensure boards in those states as early as possible to determine appropriate course work for certification.

## State University Common Market

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

- Students secure a Common Market passport application from the Records Office, list preferred courses with the signed approval of the faculty advisor, and return the passport application to the Registrar.
- Eligibility is limited to undergraduate students with sophomore standing and above with cumulative grade point averages of at least 2.0, and participation is limited to one semester of attendance.
- The passport and a transcript of students' records will be forwarded to the host university, which will send an acceptance notice and registration instructions to the student.
- No admission or matriculation fee is charged, and credits earned at the host university will be considered as resident credits and will be included in students' grade point averages at the home university.

## Tri-College University

MSU belongs to a cooperative arrangement with Concordia College (Moorhead) and North Dakota State University (Fargo) through which students may take courses at the other colleges without paying any additional tuition or fees (see Covered Programs).

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

Metropolitan Area Transit offers regular bus service among the three campuses. Reciprocal parking privileges are also available. A comprehensive cooperative arrangement among the libraries gives students and faculty direct access to the resources of all three libraries. The Tri-College University also sponsors a Center for Environmental Studies.

## Reserve Officers Training Corps (ROTC)

The ROTC education program provides professional preparation for future Air Force and Army officers. ROTC develops men and women who can use their education as commissioned officers on active duty (Army ROTC can also lead to duty in National Guard or Reserves). To receive a commission, ROTC students must complete all requirements for a degree in accordance with University rules and regulations, as well as complete courses specified by the ROTC program.

Two ROTC programs are offered—one in the Army and one in the Air Force. The program emphases are different in the two fields, but the benefits are similar. An advanced-course student who is working toward a commission in the Army or Air Force after graduation receives \$150 a month during the school year, free uniforms, and a stipend for the time spent at a required summer camp.

Three-year and two-year scholarships are available on a competitive basis to qualified students. The scholarships pay for tuition, fees, textbooks and supplies. Qualified graduates of both programs may also apply for programs of advanced study in their fields.

If you are interested in either the Army or Air Force ROTC programs through MSU, see the Records Office for information on Tri-College registration. You may also call the Department of Aerospace Studies (Air Force ROTC) at (701) 231-7949, or Military Science (Army ROTC) at (701) 231-7575, or write to the above departments at North Dakota State University, Fargo, North Dakota, 58105, for more information.

## Individualized Major

Students who wish to develop a multidisciplinary major built around a chosen theme may do so with the help of a faculty advisor. Such a major consists of at least 48 credits of which 18 to 28 credits come from one department or rubric. Twenty-four of the 48 credits in the major must be 300- and 400-level courses. No more than 16 previously completed credits should be included in the plan for this type of major. Schools must comply with all other graduation requirements as listed in the "Academic Information" section of this *Bulletin*.

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

For further information, contact the Coordinator of Individualized Majors in the Continuing Education Office at (218) 236-2182.

## University Studies Major

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

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

For further information, contact a University Studies advisor in the Continuing Studies Office at (218) 236-2182.

## The New Center for Multidisciplinary Studies

Established in 1972, the New Center for Multidisciplinary Studies is an academic department which offers an alternative-entry, Liberal Studies program for freshmen and sophomores. Students selected for the program demonstrate potential to succeed in college, but may not meet MSU's standard admissions criteria and would benefit from a nontraditional approach to beginning their university studies. The New Center's mission, like the University's mission, is to provide college-level educational experiences grounded in Liberal Studies, enabling students to integrate knowledge, skills, and values.

The New Center provides college-level Liberal Studies courses which meet the University's requirements for a broad foundation in English Composition and Literature, Natural Sciences and their Processes, Behavioral and Social Sciences, Western Tradition: Humanities and the Fine Arts, Communicative and Symbolic Processes, and Cultural Diversity and Non-Western Studies. The term "multidisciplinary" refers to the department's curriculum, which includes courses from a variety of academic disciplines. Students enrolled in traditional programs may also take New Center courses as electives, but not for Liberal Studies credit. Students are encouraged to identify their career goals based on knowledge of their strengths, interests, and opportunities.

Multidisciplinary Studies uses an outcome-based approach to learning. Credit is awarded for objectives mastered. Since traditional A-F grades are not appropriate for this kind of instruction, students' progress is measured by number of credits earned. To remain in good academic standing, students must satisfactorily complete 75% of the credits they attempt.

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

Students are considered for admission to the New Center when their file is completed and they have returned a New Center Questionnaire. The Admissions staff reviews all materials and determines whether to admit or deny admission to the New Center. A complete description of the New Center can be found in the New Center's **Student Handbook**. Call (218) 236-2954 for more information.

### Continuing Studies

Part-time adult students may choose to utilize the services of Continuing Studies. Continuing Studies advisors can help bridge the barriers and hurdles that sometimes hamper older than average students who have off-campus responsibilities to attend to while they go to college. They help nontraditional students who are unable to consistently attend conventional daytime classes develop an adaptable plan for completing a bachelor's degree. When students are not usually on campus during regular business hours, some kinds of non-academic problems can grow from small to very large. Because of this, services are designed to provide help with some of these non-academic barriers. Continuing Studies students generally take evening, Saturday, and off-campus classes, plus a few Continuing Studies packaged courses and some daytime classes. Continuing Studies advisors understand that dropping in to see an advisor can be

difficult, and do much of the advising by mail and telephone.

Admission requirements and degree requirements are the same for all MSU students, both traditional and non-traditional. Call (218) 236-2182 for more information.

### National Student Exchange

MSU holds membership in the National Student Exchange, a cooperative relationship among more than 150 colleges and universities in the United States and its territories. Through the NSE, students may spend up to one full year in residence at a participating college as an exchange student. MSU students have recently been placed at California State University-Bakersfield, North Carolina State University, State University of New York-Stonybrook, University of Alaska, University of New Mexico, University of Puerto Rico and the University of Utah. The largest single benefit of the NSE is the privilege of paying tuition at the in-state rather than out-of-state rates. Students wishing to participate in the exchange for the following year should meet a February 1 deadline. Contact the NSE Coordinator, Owens 206, for more information (218) 236-2578.

### Internship

An internship is a supervised work experience for up to 12 university credits. The objective is to allow students to gain applied experience that would not otherwise be possible in the classroom and to reinforce the choice of one's major field of study. To take an internship for credit at MSU, a student must hold at least junior status. A variety of internships are available in local, state and federal government agencies, public service organizations and private business.

Hundreds of internships are listed each year on the MSU Career Services web site <http://www.moorhead.msus.edu/career>. Select Internships on the menu. Under Internet Internship Listings and Resources, you will find internship opportunities listed by the semester in which the employers wish to have the interns work. You also will find links to departmental internship web sites, to internships listed by other college and university career services offices and to national internship search engines.

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

General questions regarding internships—when and how to apply, resume/letter preparation, finding leads through career/job fairs and through use of directories and the Internet—can be answered by the Internship Coordinator in Career Services. Call (218) 236-2131 for an appointment.

### International Study Opportunities

The Office of International Studies coordinates a variety of opportunities that exist for students to study abroad. Detailed planning is essential in order for a successful experience. Students must consult with their faculty advisors if they wish to receive credit for their international study. Financial Aid can be used to assist with these study programs.

**Student Teaching Abroad:** Student Teaching Abroad is a program in Teacher Education that makes it possible for students to apply to student teach in another country. It is open to all students of the Minnesota State University System under Common Market enrollment and to others via cooperative arrangements with their home institutions.

Most participants are assigned to independent international schools and some are assigned to public schools where English is the medium of instruction. An effort is made to place students in a geographical area of choice that may particularly enrich their academic background and special interests, and may expand cultural horizons. For more information, contact the Director of the Student Teaching Abroad Program, Lommen 108A, (218) 236-2010.

**Akita:** The Minnesota State University in Akita, Japan, offers American students the opportunity to study Japanese language and culture, and other general studies alongside their Japanese peers. Students may study for one or two semesters.

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

**Kanda & Naygao Gakuin:** Students with strong Japanese language skills and an interest in being fully immersed in the culture are encouraged to select an exchange at either Kanda University or Naygao Gakuin University, Japan. For more information, contact the Department of Languages or the Office of International Programs.

**Keele:** A one-for-one exchange opportunity is available at this attractive, campus-based university in the pottery-producing area of central England. Most majors are available. Students need a 2.75 GPA.

**Lincoln:** Students may spend a semester or full year at one of the campuses of the University of Lincolnshire and Humberside in the United Kingdom on a one-for-one exchange. This exchange is particularly suitable for students in mass communications, although other disciplines may be available. Students should have a GPA of at least 2.5 and strong recommendations. For more information, contact the Department of Mass Communications or the Office of International Programs.

**Nankai:** Students may study Chinese language and culture at Nankai University, Tianjin, China, for a full academic year or a semester. A GPA of 3.0 is suggested.

**Oxford Program:** MSU sponsors study in interdisciplinary work in the humanities at the Centre for Medieval and Renaissance Studies, Oxford, England. Students may participate for a full academic year or semester, earning credits awarded by MSU applicable to selected majors and Liberal Studies requirements. Students need a 3.0 GPA to qualify.

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

**ISEP:** The International Student Exchange Program allows students the opportunity to study at any of 125 universities worldwide. Students pay tuition and fees, room and board, and a small program fee at home, and exchange these benefits at the host institution, thus making this one of the more affordable ways to study abroad. Semester and year-long placements are available. A 2.75 GPA is suggested.

**Global Campus:** A special agreement with the University of Minnesota's Global Campus allows MSU students to participate in Global Campus programs without the need to transfer.

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

*For further information about these and other study abroad opportunities, contact individual program directors or the Office of International Programs in Flora Frick 151 at (218) 236-2956. A reference library with directories, brochures, maps, and other materials for study and travel abroad is located in the office.*



# Facilities and Services

## Housing and Resident Life

### Residence Halls

With eight residence halls offering a variety of living arrangements, there is a capacity for 1,761 students to live on campus. Each hall floor houses 25-40 students under the supervision and direction of student resident assistants.

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

Hall complexes are under the supervision of Hall Directors, but social, recreational, and cultural activities are conducted by resident assistants and student government through constitutions adopted by the residents.

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

Ballard Hall (1950) .....	174
Dahl Hall (1958) .....	296
Snarr Hall (1963-67) .....	489
Grantham Hall (1965) .....	204
Nelson Hall (1966) .....	398
Holmquist Hall (1969) .....	200

No campus housing is provided for families.

## Dining Facilities

The University offers a complete dining service in Kise Commons. Meals are provided for all students living in campus residence halls, depending on the meal plan that they select. Off-campus students, faculty, visitors, and guests are also welcome to use the dining facilities. Several dining options are available, including 5, 10, 14 or 21 meals per week; any 90 or 150 meals per semester; a declining balance debit card; coupon booklets; and single meal purchase. Questions about the meal plans can be referred to the dining service office in Kise Commons, (218) 236-2500. Off-campus student meal contracts are available through the Business Office in Owens Hall.

## Campus Security

The Campus Security Department is located in the Maintenance Building on 17<sup>th</sup> Street. The Campus Security Department provides safety and security services for students, faculty, staff and campus visitors as well as protection of property located on the campus. With the exception of the Director, Lead Supervisor and a Security Guard, the remainder of the positions are filled with university students. Student staff, after completing an interview process and background checks must complete a 40 hour training program before being assigned to work.

The Campus Security Dispatch Center is staffed on a 24 hour basis (218-236-2449). Between the hours of 4:30 p.m. to 7:00 a.m., campus security staff patrol the parking lots, academic buildings, residence halls and the

campus grounds. Parking patrol staff check the parking lots from 7:00 a.m. to midnight except Saturdays and Sundays. Parking patrol staff are trained to respond to security calls if needed.

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

The Campus Security Department is responsible for completing the Annual Security Report which is required by Federal mandate.

Problems, questions, concerns and/or suggestions relating to Campus safety and security are always welcomed by the Director (218-299-5869) and/or the Vice President of Student Affairs (218-236-2171).

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

## Comstock Memorial Union

Phone (218) 236-2261

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

### Services that are funded and administered by the Union are:

- Copies Plus
- Etcetera Shop (convenience store)
- Main Office Area Services
- Recreation and Outing Center
- The Compass (information)
- The Underground (non-achoholic nightclub)

### Other services that are located in the Union:

- Bakery
- Deli
- ATM
- Job Shop
- Notary Public
- Studio One Hair & Tanning Salon
- Union Station (including Burger King and Pizza Hut)
- Campus and U.S. mail drop-off

**Student Organizations and administrative offices are also housed in the Union. They are:**

- The Advocate
- Campus Activities Board (CAB)
- Career Services
- Conduct Officer
- Disability Services
- First Year Experience (FYE)
- KMSC Radio
- Multicultural Student Affairs
- New Student Orientation
- Student Development Office
- The Center for Leadership and Organizations
- Student Senate
- Volunteer Visions/Service Learning Center

**Building hours of operation are:**

- 7 a.m. – midnight, Monday – Wednesday
- 7 a.m. – 1 a.m., Thursday – Friday
- 9 a.m. – midnight, Saturday.
- 10 a.m. – midnight, Sunday

Hours are posted on holidays and over breaks. For further details about the Union or to schedule a space call (218) 236-3587.

**Livingston Lord Library**

Livingston Lord Library has 365,000 volumes, 1,626 periodical titles and is open 94 hours a week. Facilities include: Northwest Minnesota Historical Archives Collection, the Clay County Law Library, a 15,000 volume Curriculum Materials Center, a 25,000 volume children's book collection, and an extensive collection of Minnesota and United States government documents. A computerized catalog provides on-line access to library resources, periodical reference files, and regional libraries. Extensive interlibrary loan agreements make the collections of libraries in Minnesota and the region readily available to students and faculty.

**Science Facilities**

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

**Planetarium**

Located in Bridges Hall 167 and containing a Spitz 512 Projector, the Planetarium provides an environment for observing the appearance and motions of the sky at various seasons and from different locations. In addition to the primary star projector, auxiliary projectors and equipment are used to produce a variety of additional effects lending realism and atmosphere to the presentations.

The Planetarium is used extensively by astronomy classes. It also provides demonstrations for elementary and secondary school classes and for the general public. The Planetarium can be contacted at (218) 236-3982.

**Regional Science Center**

The Center operates two sites: the Buffalo River Site is a 300-acre outdoor classroom adjacent to Buffalo River State Park, 16 miles east of Moorhead on Highway 10, the other site is a Planetarium which is located in Bridges Hall 167 on the MSU campus. The Center maintains its offices in Hagen 201B at the corner of 7<sup>th</sup> Avenue South and 11<sup>th</sup> Street South on the MSU campus, (218) 236-2904.

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

**Bookstore**

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

### **Roland Dille Center for the Arts**

The Departments of Art, Music, and Speech-Theatre occupy this building. It includes a 900-seat auditorium, a seven-story stage area, an 80-foot gallery, a 316-seat thrust stage theatre, music recital hall, instrumental & choral rehearsal rooms, electronic music studio, synthesizer and keyboard labs, recording library and listening room, 22 individual practice rooms, two scene shops, drama rehearsal room, dressing rooms, costume shop, classrooms, offices and studios for painting, drawing, design, glass blowing, ceramics, sculpture, graphics, crafts, and heat processing. The Center is the scene of year-round cultural activity, including the Performing Arts Series, musical performances and recitals, photographic and art exhibits, the Moorhead State University Theatre, the Straw Hat Players summer theatre company, and the Opera Workshop.

### **Alcohol/Drug Awareness Program**

The use or possession of alcoholic beverages or illegal drugs on the University campus, in the residence halls, or at University-sponsored events on campus is prohibited by Minnesota State Law. Students caught selling alcohol or illegal drugs on campus will be subject to disciplinary action as set forth in the Student Handbook section "Disciplinary Procedures". Drug and alcohol violators may be referred to the campus Conduct Officer, Campus Security, and the Moorhead Police Department. The University has designated a Chemical Health Educator/Counselor to provide programming, assessment and counseling related to use/abuse of alcohol and other drugs. These services are accessed through Hendrix Health Center at (218) 236-2211 or Counseling at (218) 236-2227.

### **Counseling and Personal Growth Center**

The Counseling and Personal Growth Center provides a setting where students may discuss personal or academic concerns. The Counseling Center staff assists students with their development in such areas as career and educational planning, personal and social adjustment, and study skills improvement. Counseling Center services include individual counseling, life skills classes, career and personality testing, supplemental instruction, free peer tutoring, conflict negotiation services, study skills programs, special programs for returning adult students, and a comprehensive career library containing current career and educational information and related computer software. Questions or requests for services should be directed to the Counseling and Personal Growth Center, Bridges 260, (218) 236-2227.

### **Write Site**

The Write Site, located in Lommen Hall, is a writing resource center, for MSU students, faculty, and staff. It offers help and answers questions regarding writing. Tutors provide one-on-one guidance with any kind of writing project-essays, essay exams, research papers, abstracts and summaries, resumes and letters.

The tutors are upper-class students representing a variety of majors on campus. Each tutor possesses strong composition skills, demonstrates a mastery of the English language, and is an accomplished writer. Tutors collaborate with writers in ways that help writers find their own answers. They also offer regular feedback on developing drafts of papers, suggest writing strategies, diagnose writing problems, and review misunderstood information to help writers gain competence in their own writing.

### **Audiovisual and Television Services**

The Audiovisual Service Center, located in the library, and the Television Service Center, located in Weld Hall, provide rental of instructional films and videotapes from a variety of sources; bookings of films and tapes from the Tri-College University Film Library; audio-visual equipment loan and repair; production of slides, transparencies, posters, signs, photographs, and videotape production and CCTV distribution of videotaped presentations.

### **Disability Services**

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

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

Possible services include, but are not limited, to:

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

Questions or requests for services should be addressed to the Coordinator of Disability Services, CMU 222, (218) 299-5859 V/TTY, [ahlespa@mhd1.moorhead.msus.edu](mailto:ahlespa@mhd1.moorhead.msus.edu).

### Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic provides service to students, faculty, and staff members as well as their families, and children and adults from the community and surrounding area. Services include detailed diagnostic evaluations, consultation and therapy, and referral to other agencies as individual needs are indicated. The Clinic is located in Grier Hall. Inquiries should be addressed to: Speech-Language-Hearing Clinic, (218) 236-2286.

### Veterans Office

The Veterans office provides counseling, GI Bill certifications, and tutorial assistance, and is concerned with recruiting veterans and veterans' dependents. Interested veterans should call (218) 236-2603, or stop by Livingston Lord Library, Room 201 between 7:30 a.m.-4:30 p.m.

### Early Education Center

The mission of the MSU Early Education Center is to provide quality care and developmentally appropriate education for children between sixteen months and six years, including kindergarten. The Center aims to provide an integrated program that includes equitable education for handicapped children and children of diverse cultures. As an integral component of the Early Childhood Education Program within the Elementary and Early Childhood Education Department, this Center provides practicum experiences for students seeking state licensure. Following a Professional Development School design, the Center provides an exemplary inclusive model demonstration site in Minnesota and is based on current theory and research. The Center facilitates cross-disciplinary faculty research on children's early learning experiences.

The Early Education Center, fully accredited by the National Academy of Early Childhood Programs—sponsored by NAEYC, serves children whose parents are MSU students/faculty/administrators or non-MSU students. The Center is in session 80 days during Fall and Spring Semesters. The Center follows the MSU academic calendar, opening daily at 7:30 a.m. and closing at 5:30 p.m. Children, three to six years of age participate in the full-time, or part-time (i.e. 8:00 a.m. – 12:00 noon) program; while children, 16 months to 3 years participate in the full-time or part-time (i.e. under 4 hours) toddler program. In addition, the Early Education Center provides a Kindergarten program.

For further information, call the Directors, (218) 236-2214.

### Career Services

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

Internship coordination is a special function of the office. A collection of current internship directories is available in the resource room of Career Services for student use. Internship opportunities for all majors arrive year-round and are listed on the Career Services web site <http://www.moorhead.msus.edu/career> by the semester in which the interns are needed. The site also includes contact information for departmental internship coordinators, University internship policies and many links to internship opportunities. Planning for internships before the junior year is advised.

The office provides services for graduates and alumni. These services consist of on-campus interviewing, career fairs, job vacancies on the web site, referral of registered candidates in response to employer requests and credential files. Additional services are offered to assist with job interviewing techniques, professional review of resumes and letters and the development of job search strategy for local, regional and national searches.

Questions or requests for services should be directed to Career Services, CMU 114, (218) 236-2131.

### Moorhead State University Alumni Foundation

Incorporated in 1970, the MSU Foundation served as the umbrella for all development and fund-raising programs of the University. In 1996, the Foundation merged with the MSU Alumni Association, which had been incorporated in 1930. Headed by a 30-member board comprised of business and professional leaders and alumni, the Alumni Foundation coordinates all MSU fund raising, grants scholarships, and provides services to the University, its students and alumni.

All graduates or former students who have attended MSU for at least one year may be members of the Alumni Association.

### **The Women's Center**

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

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

The Women's Center is located in MacLean 171. For more information, call (218) 236-3792.

# Student Information

## Student Affairs

The Vice President for Student Affairs serves to assist students and promote learning in and out of the classroom. The Office of Student Affairs coordinates the following programs: housing, security, counseling, financial aid, health services, career services, student union, disability services, orientation/new student life, student activities, student organizations, student government, food services, student development, multicultural student affairs, international student services, the Women's Center, intercollegiate athletics, campus discipline, cultural diversity, and enrollment management.

## Student Senate

The Student Senate is the recognized governance body for the students. Most activities and concerns of the entire student body are subject to consideration by the Student Senate, whose officers and members are elected by the students of MSU.

## Peer Advisor Program

The Peer Advisor Program supplements the faculty advising program. About 50 upper-division students, nominated by their major departments, are appointed to assist students, particularly freshmen, to take advantage of all the learning opportunities at MSU. Peer Advisors work through their departments and also sponsor a Peer Advisor Center, located in Flora Frick 155. They are employed by Academic Affairs.

## Student Activities and Organizations

In addition to numerous activities related to academic studies, campus organizations provide opportunities for extracurricular participation by students at MSU. For a list of recognized student organizations on campus, contact the Student Organization Resource Center, CMU 225, (218) 236-2790.

## Athletics

### Intramural Athletics (m-Men, w-Women, c-Coed)

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

### Women's Intercollegiate Athletics

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

### Men's Intercollegiate Athletics

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

## Speech-Theatre Activities

During the academic year, the Department of Speech Communication and Theatre Arts sponsors a variety of student activities, including Forensics, Forum Debates, several Theatre productions (drama, comedy, musicals, children's theatre, classic and contemporary), as well as radio, television and film production activities. These opportunities are open to all students on campus, regardless of major. During the summer, The Straw Hat Players company provides performing, technical and publicity opportunities for students, who must audition and be selected to participate. Contact the department at (218) 236-2126 for more information.

## Music Performance Activities

Concert Band	Festival Mixed Choir
Symphonic Wind Ensemble*	Festival Women's Choir
Orchestra*	Opera Workshop*
Jazz Bands I & II*	Concert Choir*
Vocal Jazz*	Chamber Singers*
Commercial Music Ensembles*	Collegium Musicum
TCU Percussion Ensemble*	TCU Marimba Ensemble*
Flute Choir*	Jazz Combo*
New Music Ensemble*	Guitar Ensemble*

\* Audition required

The musical organizations are open to all students on campus regardless of major. Contact the Music Department at (218) 236-2101 for more information.

## Comstock Memorial Union

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

## Roland Dille Center for the Arts

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

## Other Fee-Funded Activities

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

## Student Organizations

There are many student organizations on campus. Information about them can be found in The Center for Leadership and Student Organizations located in CMU 225, (218) 236-2790.

### Cultural Organizations

American Indian Association  
Asian American Association  
Chinese Student Club  
International Students Club  
Japanese Club  
MSU Spanish Club  
Organizacion Latina American  
Pakistan Student Association

### Departmental Organizations

Ad Club  
American Choral Directors Association  
Association for Computing Machinery  
Blackfriars  
Chemistry Club  
Criminal Justice Association  
Education Minnesota Student Program  
Financial Management Association  
Graduate Student Organization for Counseling and Human Development  
GraphiComm  
History Club  
Homebuilders/Construction Management Society  
Independent Entrepreneurs  
Math Club  
MSU Paralegal Association  
MSSSWA (Social Work majors)  
MSU Pre-Law Club  
MSU Pre-Med Club  
Music & Entertainment Industry Students Association (MEISA)  
National Student Speech, Language Hearing Association  
Photo Guild  
Pi Sigma Epsilon  
Professional Association for Industrial Distribution  
Psi Chi-Psychology Club  
Public & Human Services Administration Student Organization  
Public Relations Student Society of America  
Society of Manufacturing Engineers  
Student Council for Exceptional Children  
Student Human Resources Association Business Administration  
Students Involved in Visual Arts

### Greek Life

Panhellenic Council  
Delta Zeta (sorority)  
Gamma Phi Beta (sorority)  
Phi Sigma Kappa (fraternity)  
Old Order of Owls (fraternity)  
Omega Nu (fraternity)

### Honorary Organizations

Alpha Lambda Delta  
Alpha Upsilon Alpha  
BETA BETA BETA (biology)  
Lambda Epsilon Chi (paralegal)  
Phi Alpha (social work)  
Pi Kappa Lambda (music)

### Political Organizations

College Democrats

### Publications

Advocate

### Religious Organizations

Campus Crusade for Christ  
Chi Alpha Christian Fellowship  
Christian Conquest Student Fellowship  
Inter-Varsity Christian Fellowship  
Lutheran Campus Ministry  
Lutheran Student Fellowship  
St. Thomas Newman Center

### Residence Halls

Residence Hall Association (RHA)  
National Residence Hall Honorary  
Dahl/Ballard Hall Council  
Nelson/Grantham Hall Council  
Holmquist Hall Council  
Snarr Hall Council

### Service Organizations

Circle K International  
Habitat for Humanity  
SPURS  
Volunteer Visions

### Special Interest Organizations

Campus Activities Board  
English as a Second Language Club  
Homecoming Committee  
KMSC (radio)  
MSU Disabilities Organization  
MSU Environmentalists  
MSU Gamers  
MSU Guitar & Bass Club  
MSU Juggling Club  
MSU Transfer Club  
New Center Student Activities Committee  
Non-Traditional Students Association  
Sci-Fi and Fantasy Club  
Students Against Destructive Decisions (S.A.D.D.)  
Students For A Free Tibet  
Tri-College (10% Society)  
Women of the World United

**Sports and Recreation**

MSU Dance Team  
MSU Heritage Dancers  
MSU Tae Kwon Do  
MSU Men's Soccer  
Outdoor & Orienteering Club  
Tri-College Flying Club

**Student Government**

Student Senate

**Parking and Traffic Regulations**

All motor vehicles driven or parked on the campus must be registered and bear a current parking permit which may be purchased in the Office of Administrative Affairs-Parking, Owens Hall 209, (218) 236-2675.

All motor vehicles must be operated in compliance with current official published parking and traffic regulations of the University.

**Housing Policies**

Housing reservation forms and contracts are mailed to all students following their admission to the University and are also available from the Housing Office, (218) 236-2118.

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

**Health Service**

The Hendrix Health Center is an excellent out-patient clinic staffed with physicians, nurse practitioners and registered nurses. All currently enrolled students who have paid an activity fee are eligible for unlimited visits at no additional charge. Other specialists include a psychiatrist, a chemical dependency counselor, and a rape and abuse/dating violence counselor. Pharmaceuticals and laboratory services, not covered by insurance, will have minimal charges. Hendrix Health Center is located in the lower level of Dahl Hall and can be contacted at (218) 236-2211.

**Health Insurance**

A **Group Insurance** plan for injury and sickness is offered through the University. Information is available during registration and in the business office. It is strongly recommended that all students have insurance protection. Hendrix Health Center will file your insurance claims electronically; please have your policy information(card) with you at the time of your visit.

**Immunization Requirements**

Minnesota Law (M.S. 135A.14) requires that all students born after 1956 and enrolled in a public or private post-secondary school in Minnesota be immunized against diphtheria, tetanus, measles, mumps, and rubella, allowing for certain exemptions. All students are requested to complete the **Immunization and Health Insurance Record** form, which is filed in Hendrix Health Center and available for review by the Minnesota Department of Health and the local community health board.

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



# Admissions

## Office of Admissions

104 Owens Hall  
Moorhead State University  
1104 7th Avenue South  
Moorhead, MN 56563

Telephone: Local: (218) 236-2161  
Toll Free: 1-800-593-7246

For TDD communication, contact the Minnesota Relay Service at 1-800-627-3529

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

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

### Application deadlines

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

## Freshman Admission

Students who have graduated from high school or completed the GED and who have not attended a post-secondary institution since completing their high school education are classified as freshmen in the admission process. Students who may have attended post-secondary institutions while still in high school are also classified as freshmen in the admission process.

### Freshman Application Procedures

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

- Application for Admission
- \$20 non-refundable Application Fee
- High School Transcript
- ACT, PSAT, or SAT scores

Applicants should request that their high school send an official transcript to the Admissions Office at the time of application. Students must also have a final transcript sent after graduation. FAX (facsimile) copies are not considered official. If transcripts are not in the same name as the application (due to a legal name change), it is the responsibility of the applicant to have the name corrected on the transcripts so that the application and

transcripts can be matched. Students wishing to begin classes in the fall are encouraged to apply for admission as early as the previous fall. Once the application is complete, notification of the decision will be mailed in 2-3 weeks.

### Freshman Admission Requirements

High school graduation or the GED and the following qualifications are necessary for automatic admission to MSU:

1. High school rank in the upper one-half of the graduating class, **OR**
2. Achieve the following score(s) on any one of the standardized college admissions tests: (ACT is preferred)
  - ACT Composite Score of 21 or above
  - PSAT Verbal and Math Combined Score of 90 or above
  - SAT Verbal and Math Combined Recentered Score of 900 or above, **AND**
3. Resident aliens (permanent residents who hold a "green card") must also include a TOEFL examination report indicating a score of 500 or higher.

## Admission to the New Center for Multidisciplinary Studies

Freshmen who do not meet the automatic admission requirements for class rank or test score, but who demonstrate the potential to succeed, may be considered for admission to the New Center for Multidisciplinary Studies. (See Curricula section of the *Bulletin* on the New Center for Multidisciplinary Studies). Eligible students will receive a New Center questionnaire and be asked to complete and return the questionnaire with a letter of recommendation. Students will be considered when this information is returned and the admission file is complete.

The Admissions Office will review all materials and determine whether to admit or deny admission to the New Center. A variety of criteria is used, including student talent, accomplishments, interests, and level of motivation. Enrollment in the New Center is open to both traditional and nontraditional students, but is limited both numerically and geographically. Priority is given to students in MSU's service region. Admission to the New Center is available in both fall and spring semesters, but is not available during the summer sessions.

For more information, contact the Admissions Office, (218) 236-2161.

## Transfer Admission

### Transfer Application Procedures

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

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

1. Application for Transfer Admission
2. \$20 non-refundable Application Fee
3. Transcript(s) of all previously attended post-secondary institutions. Unofficial transcripts issued to students may be used to determine admission; however, admission will not be finalized until official transcripts are received. Official transcripts must be sent directly from the previous institution's Registrar's Office to the MSU Office of Admissions. **FAX (facsimile) copies are not considered official transcripts.** Prospective transfer students must submit complete transcripts from all post-secondary institutions previously attended. Failure to declare all previous post-secondary attendance is regarded as a serious offense and may result in dismissal from the University and the withdrawal of all credits completed.
4. Official High School Transcript (if student has completed less than 24 semester or 36 quarter credits)

If transcripts are not in the same name as the application (due to a legal name change) it is the responsibility of the applicant to have the name corrected on the transcripts so that the application and transcripts can be matched. Once the application is completed, notification of the decision will be mailed in 2-3 weeks.

### Transfer Admission Requirements

High school graduation, or the GED, is required for admission. Transfer students who have completed a minimum of 24 ACADEMIC semester hour credits or 36 ACADEMIC semester hour credits from a regionally accredited college or university with a 2.0 cumulative GPA generally will be admitted to MSU. Both college and high school records are used in determining eligibility for admission for transfer students who have completed less than 24 academic semester hour credits or 36 academic quarter hour credits. **NOTE:** All grades of F, NC (no credit) or Incomplete will be treated as F's in computing GPA.

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

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

MSU will recognize and uphold academic suspensions from other post-secondary institutions. Prospective students under suspension from another institution will not be considered for admission until two academic terms have passed since the suspension. Summer sessions are not considered academic terms.

### Planning to Transfer?

Minnesota's public colleges and universities are working to make transfer easier. You can help if you plan ahead, ask questions and use pathways created by transfer agreements.

### Preparing for Transfer

If you are currently enrolled in a college or university:

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

If you are not currently enrolled in a college or university, you might begin by meeting with a transfer specialist or an admission officer at your intended transfer college to plan the steps you need to take.

**How Transfer of Credit Works**

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

**Applying for Transfer Admission**

1. Application for admission is always the first step in transferring. Fill out the application as early as you can prior to the deadline. Enclose the application fee.
2. Request that official transcripts be sent from every institution you have attended. You might be required to provide a high school transcript or GED test scores as well.
3. Re-check to be certain you supplied the college or university with all of the necessary paperwork. Most colleges make no decisions until all required documents are in your file.
4. If you have heard nothing from your intended college of transfer after one month, call to check on the status of your application.
5. After the college notifies you that you have been accepted for admission, your transcribed credits will be evaluated for transfer. A written evaluation will tell you which courses transfer and which do not. How your courses specifically meet degree requirements may not be decided until you arrive for registration or have chosen a major.
6. If you have questions about your evaluation, call the Office of Admissions and ask to speak with a credit evaluator. Ask why judgments were made about specific courses. Many concerns can be cleared up if you understand why decisions were made. If not satisfied, you can appeal. See "Your Rights as a Transfer Student."

**Your Rights as a Transfer Student**

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

**For help with your transfer questions or problems, see your campus transfer specialist, (218) 236-2565.**

**Non-Traditional Students**

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

Prospective non-traditional students may be required to complete assessment tests to determine admission status and placement. Prior to course registration, non-traditional students will develop, with the assistance of an academic advisor, a plan of study consistent with assessment results. Students will also be referred to appropriate services and programs, such as the New Center, Continuing Studies, Counseling Center, and the Non-Traditional Student Association. For more information, contact the Admissions Office, (218) 236-2565.

**Undergraduate Special Students**

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

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

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

To apply, students must submit:

1. A completed application for admission (Under Course of Study, please check "Seeking No Degree - Undergraduate Special Student.")
2. The \$20 application fee.

Should admission to a degree program be desired at a later date, the student must then submit an official academic transcript from high school or GED scores and transcripts from any previous post-secondary institutions attended. Students will be evaluated for admission using the criteria described under "Transfer Admission."

### Readmission

Students who leave MSU for one or more semesters need to reapply for admission. Former students of MSU, including those who have enrolled in off-campus courses, should complete a readmission form. Official transcripts of all post-secondary study since the last date of attendance at MSU must be submitted before the readmission process is complete. Transfer credits not reported before readmission may be disallowed, and academic suspension at another institution, if unreported, is cause for cancellation of enrollment. Readmission is not automatic. Returning students must be in good standing or have approved clearance. For more information, contact the Records Office, (218) 236-2565.

All students who began their study in 1965 or later must pay the application fee if they haven't already done so. If transcripts are not in the same name as the application (due to a legal name change), it is the responsibility of the applicant to have the name corrected on the transcripts so that the application and transcripts can be matched.

Students will be readmitted to their original status and major unless they request a change. Students who were originally admitted as special students who wish to change their status to degree seeking must notify the Admissions Office of this change and request all official transcripts to be sent to the Admissions Office.

### Permanent Resident Admissions

Permanent residents (or resident aliens) are individuals who currently hold a "green card." Resident aliens must fulfill the same academic requirements for admission that international students and/or U.S. citizens are required to fulfill. Resident aliens are not required to provide evidence of financial support since they are able to apply for federal and state-based financial assistance. As evidence of English proficiency, resident aliens must include with their application a TOEFL examination report indicating a score of 500 or higher (173 on computer-based test).

## International Students

### Freshmen International Students

International students who wish to be considered for admission to MSU should obtain an international student admission packet from the Records Office. This packet should be returned with a \$20 application fee. All international student applicants must meet (1) academic, (2) English proficiency, and (3) financial support requirements.

### Academic Standards

International student applicants should submit official or certified copies of all appropriate transcripts, marks sheets and/or certificates of completion indicating successful completion of an appropriate secondary school program.

### English Proficiency

International students are required to provide evidence that their English proficiency is sufficient to enable them to be academically successful at MSU. Evidence of English proficiency is provided by submitting a score report from a TOEFL examination taken less than two years prior to the date of application. TOEFL exam scores of 500 (173 computer-based) or higher are acceptable for admission for undergraduate students. Graduate students require a TOEFL score of 550 or better (213 computer-based), and graduate students admitted to the Master of Liberal Arts program require a TOEFL score of 570 (230 computer-based) or higher.

### Financial Support

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

### Transfer International Students

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

Applicants who have completed post-secondary course work in the United States should arrange to have a transcript sent directly from all institutions previously attended to the Records Office. Academic admissions requirements will be the same as those for U.S. residents (described in the "Transfer Admission Requirements" section).

Post-secondary course work completed outside of the United States will be evaluated and transfer credit will be awarded, if appropriate.

#### **International Student Tuition**

MSU will grant in-state tuition to international students who have demonstrated academic potential. The number of international students who can receive in-state tuition waivers is strictly limited to no more than 3% of the MSU fall semester FTE enrollment. In order to continue to receive the in-state tuition waiver beyond the first year, students must maintain academic good standing (2.00 GPA for undergraduate students and 3.00 GPA for graduate students), keep in status with the I.N.S., and demonstrate satisfactory progress toward a degree. This policy is subject to change or suspension without advance notice by action of either MSU or the MnSCU Board of Trustees.

#### **Mandatory Health Insurance**

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

#### **Mandatory International Student Fee**

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

### **International (Temporary Resident) Admissions**

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

### **Enrollment Options for High School Students**

#### **Post-Secondary Enrollment Option (PSEO)**

As enacted in the 1985 Minnesota Legislature, a Minnesota high school junior or senior may enroll for courses at MSU as part of the student's full-time high school enrollment and receive both college credit and credit toward high school graduation requirements. No charge will be made to students for the costs of tuition, fees (except for private music lessons), or required textbooks.

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

High school seniors must be in the upper half of their high school class and high school juniors must be in the top third of their high school class to be admitted.

To apply for this option, students must submit:

- A completed application for freshman admission (please write "PSEO" at the top of the application);
- High school transcript;
- Statement from the high school indicating class rank if it is not available on the high school transcript.

Admission applications will be reviewed and program eligibility established by the Director of Academic Support Programs. The Notice of Student Registration form must be completed by the student and the high school counselor/principal prior to registration for classes. Students in the PSEO program will register on a space availability basis after all regularly admitted students have been registered. PSEO students are not eligible to participate in Tri-College University and are not eligible for financial aid.

Class schedules and registration forms will be supplied by the Academic Affairs office. Application forms are available at all Minnesota high schools. Students who are interested may contact the Director of Academic Support Programs, (218) 236-3586.

Students who seek to enroll in a program after participating in the PSEO program must notify the Admissions Office of their intention. The \$20 application fee and final high school transcript, which certifies high school graduation, are required and should be sent to the Admissions Office. Students will then be evaluated for admission using the criterion in effect for all students.

#### **Early Enrollment Option**

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

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

To apply for this option, students must submit:

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

Any credits earned at MSU must be in addition to those courses required by the student's high school for graduation. Official credit granted by the University is deferred until after high school graduation. Early enrollment students are not given registration priority nor are they eligible to participate in the Tri-College University. Students will be billed for tuition and fees after course registration takes place; early enrollment students are not eligible for financial aid.

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

# Financial Information

## University Expenses

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

Basic costs usually fall into three categories: tuition and fees, housing and meals, and incidental or personal expenses. Barring any unusual financial obligations, students living on campus can expect estimated total annual expenses at MSU to range from \$7,700 to \$8,600, including personal expenses.

The following is a table of estimated costs for the 1999/2000 academic year, based on a normal undergraduate load of 32 credits per year. These rates are subject to change

### Tuition (including mandatory comprehensive fee):

Resident .....	\$3,181.12
Non-Resident .....	\$6,570.56

### Housing and Meals (21 per week)

Resident (Double) .....	\$3,264.00
Non-Resident .....	\$3,264.00

### Total

Resident .....	\$6,445.12
Non-Resident .....	\$9,834.56

Incidental and personal expenses—books and supplies, clothing, laundry, recreation, transportation, etc.—may range from \$1,600 to \$2,500, depending upon individual needs.

## Tuition Rates

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

### Resident Status (MN, ND, and Manitoba)

Undergraduate .....	\$85.28
Graduate .....	\$131.33

### South Dakota Reciprocity Status

Undergraduate .....	\$87.27
Graduate .....	\$131.33

### Wisconsin Reciprocity Status

Undergraduate .....	\$110.00
Graduate .....	\$147.00

### Non-Resident Status

Undergraduate .....	\$191.20
Graduate .....	\$208.16

## Comprehensive Student Fee

All students enrolled for regular instruction (resident credit) are assessed a mandatory comprehensive fee at a rate of \$18.73 per credit hour not to exceed \$449.52 per year (based on 24 credits).

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

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

## Resident and Non-Resident Tuition Status

Students shall be eligible to pay in-state tuition if they meet the criteria of Minnesota State Statute 135A.031, subdivision 2. This statute creates the following categories of eligibility for resident tuition:

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

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

1. Graduate students appointed to graduate assistant positions;
2. Students who qualify under a Board-approved agreement between a governmental subdivision and a college or university;
3. Colleges and universities may adopt a policy to exempt high ability students who are in the top 15 percent of their high school class or who score above the 85th percentile on a nationally-normed, standardized achievement test and who reside in states that do not have reciprocity agreements with Minnesota.

4. Students who qualify under a college or university affirmative action program consistent with law and approved by the Chancellor or designee;
5. Nonimmigrant Japanese students who have completed a program of study of at least one academic year at the Akita campus and have been recommended by the provost for transfer to a Minnesota state college or university and who retain their legal visa status;
6. Students who are recognized as refugees by the Office of Refugee Resettlement of the U.S. Department of Health and Human Services.
7. Colleges and universities may adopt a policy to exempt nonimmigrant international student classified under 8., U.S.C. 1101 (a) (15) (B), (C), (D), (F), (H), (J), and (M).
8. U.S. military personnel serving on active duty assignment in Minnesota, and their spouses and dependent children.

There are other factors which may be weighed in considering the question of residency and/or resident tuition for an individual student. Any questions regarding residency and resident tuition should be directed to the MSU Registrar. Phone: (218) 236-2566.

### Reciprocal Tuition Agreements

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

Reciprocity application forms are available from the Records Office to be completed, and submitted to the higher education authority in the student's home state.

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

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

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

Qualified students who are billed for non-resident tuition may pay reciprocity rates or receive refunds by

providing evidence of their official approval within two weeks after the first class day. Copies of letters from their home state approving agencies will be satisfactory for this purpose. Payment deadlines may not be deferred to await approval.

**Applications should not be submitted to MSU but should be mailed directly to home state approving agencies.**

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

### Minnesota-Manitoba Reciprocity

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

### Midwest Student Exchange Program

The state of Minnesota participates in the Midwest Student Exchange Program. Member states, in addition to Minnesota, are Kansas, Michigan, Missouri and Nebraska. Residents of these states may attend MSU at a tuition rate equal to 150% of resident tuition. Undergraduate and graduate programs are available on a space available basis. Please address any questions about the Midwest Student Exchange Program to the Director of Admissions or the Registrar.

### Payment of Tuition and Fees

All tuition and fees are payable in full each semester on or before payment deadlines designated in the academic calendar and the term schedules. Late fee charges begin to accrue the first class day following the established payment deadline. (See "Late Fee Waiver/Payment Plan" below.)

The University has established a seven (7) day free drop/add period at the start of each semester. During this period, students may drop any or all classes without obligation. Students are obligated to pay for all classes remaining after this free drop/add period.

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

Students may apply for a late fee waiver if delay of their financial aid is caused by the institution or if a private, state or federal organization (billed third party; i.e., PSEOA, DVR, CEP, etc.) has provided written agreement to pay for the amount owed by the student. This waiver will prevent the accumulation of late fees and interest. If the government or third party fails to pay the debt, the student will be responsible for the payment and may not register for subsequent semesters until the



debt is satisfied. Personal or family financial difficulties or the late application for financial aid are not valid grounds for a waiver of late fee charges.

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

Short-term university loans are available to the student to assist in payment of up to 50% of their tuition and fee costs. Interest will be assessed on these loans and loan repayment may be required before the student can register for subsequent terms. Application for these loans should be directed to the Business Office.

MSU will place a hold on diplomas, official transcripts and term grades until (a) all tuition, course related fees and student fees have been paid and (b) all other financial obligations (including financial aid repayments) owed the University have been settled.

Students who have registered for courses at MSU but decide not to continue attendance should (1) contact the Records Office if this decision is made on or prior to the seventh class day of the term or (2) contact the Counseling Center after the seventh class day of the term. Notification to the University of non-attendance may reduce charges and/or create a refund. Failure to provide such notification may result in additional late/interest costs.

**Registration Reinstatement**

Reinstatement of any registration which has been cancelled for nonpayment is subject to the following conditions:

1. Such reinstatement must occur not later than one academic term following the academic term which was canceled.
2. There will be a \$50 fee assessed for the reinstatement if such reinstatement occurs during the canceled term, otherwise there will be a \$75 fee assessed for the reinstatement.
3. The entire term registration must be reinstated.

Appeals of this policy may be directed to the Vice President of Student Affairs.

**Refund of Tuition/Fee Payments Due to Withdrawal**

MSU will process a proportional refund to the student and/or the student's financial aid funding sources when the student **withdraws totally** from the University. No partial refunds will be made for individual courses

dropped by the student after the first seven class days of Fall and Spring terms. Tuition and fee withdrawal refunds are based on applicable percentages as determined by:

1. MnSCU/State Policy and
2. Federal Statutory Pro-Rata Schedule (Fed. Register, Vol. 50, #39).

Most withdrawing students who receive financial aid will have all or a portion of their refund credited to their financial aid programs and may incur repayment obligations if any direct cash disbursements were received.

I. Tuition and Fee Refunds for all returning and for first-time students **WITHOUT** financial aid will be based on percentages established by the MnSCU Board:

REGULAR TERMS		SUMMER SESSION*	
Instruction Days	Percent of Refund	Instruction Days	Percent of Refund
1-7	100	1-5	100
8-14	75	5-10	50
15-21	50	After 11 <sup>th</sup> day	0
22-28	25		
After 28 <sup>th</sup> day	0		

\*Aid awarded for a summer term and provided to the student at the start of the Summer for multiple sessions, requires a refund to the aid program in a manner similar to a semester term and not individual summer sessions.

**Off Campus and Evening Courses:**

Within first seven days of the term .....	100%
Between 8 <sup>th</sup> and 14 <sup>th</sup> day of the term .....	75%
Between 15 <sup>th</sup> and 21 <sup>st</sup> day of the term .....	50%
Between 22 <sup>nd</sup> and 28 <sup>th</sup> day of the term .....	25%
After the 28 <sup>th</sup> day of the term .....	0%

II. Refunds for first-time students WITH Title IV HEA Funds withdrawing on or before the 60% point of the term will reflect the larger of the refund calculations based on:

- a. State MnSCU Refund Policy (listed under Section I)
- b. Statutory Pro-rata Refund Policy
  1. Any unpaid charges will be deducted:
    - a. from the amount retained by the University under State policy calculations or
    - b. from refund amount under pro-rata calculations.
  2. Refund amounts will be initially disbursed to aid funding sources/student in the order listed below.
  3. Statutory Pro-Rata refunds will be based on the percentage of the term that remains at the point of withdrawal: Number of weeks remaining in the enrollment period divided by total weeks in the enrollment period (15). The resulting fraction is converted to a percentage rounded down to the nearest 10% .

III. Refund amounts will be disbursed in the following order up to, but not exceeding, the amount received from each funding source for the term:

- a. SLS Loans
- b. Unsubsidized Stafford Loans
- c. Subsidized Stafford Loans
- d. PLUS
- e. Federal Direct Loans (Unsubsidized, Subsidized and PLUS)
- f. Federal Perkins Loan
- g. Federal Pell Grant
- h. Federal SEOG
- i. Other Title IV HEA funding
- j. Other Federal, State, Private or Institutional Aid
- k. The student

Residence Hall refunds will be based on the number of weeks remaining in the term, calculated on a weekly charge from Friday through Thursday. A \$50.00 administrative charge will be deducted from the housing refund.

Students who wish to appeal refund policies or the percentages used may file a Tuition Refund Appeal. Forms are available from the Business Office.

Printed copies of the Refund Policies and calculations used in determining refund amounts are available at the Business Office and the Office of Scholarship and Financial Aid. No refund will be granted for less than \$1.00.

**NOTE:** Refunds of tuition and fees due to individual dropped courses will be granted only for drops occurring in the first seven calendar/class days of the Fall or Spring semester, on the first five days of a Summer class, and for off-campus and evening classes dropped prior to the second class meeting.

#### **Repayment:**

MSU will determine if a withdrawing student owes a repayment of any Pell, SEOG, Perkins Loan and/or MN Grant funds disbursed to cover non-institutional expenses. Such expenses include room and board that is not provided by the school, transportation expenses, childcare expenses, etc. as indicated on the student's financial aid budget. These living expenses will be prorated for a 15-week semester. Books, supplies, and miscellaneous expense allowances are considered to be expended at the beginning of the term. Aid overage checks issued to students will be considered as the cash payments for non-institutional expenses.

### **Housing and Dining Contracts**

If you are to live in a University residence hall, you must sign a contract. The complete contract will be mailed to you and should be carefully read for provisions affecting your plans. If you have questions about residence hall life, housing, or would like a housing contract, call the MSU Housing Office at (218) 236-2118.

Room and board rates, including local telephone service for each semester of the year, are available by calling the MSU Business Office, (218) 236-2221.

### **Financial Aid**

Students seeking help for financing their education should apply to all possible sources, including the University. Financial aid is available in two categories: (1) programs which require students to demonstrate financial need such as Federal Pell, MN Grant, Work Program, Federal SEOG, and Direct Subsidized Loans and Perkins Loans, and (2) programs that are not based on need such as Direct Unsubsidized, Federal PLUS, and SELF loans.

Information and application forms about financial aid are available from the Office of Scholarship and Financial Aid, (218) 236-2251, or the Peer Advising Office.

#### **Application for Financial Aid**

University action on aid applications can only be taken for newly admitted or currently enrolled students at MSU. Students must complete the Free Application for Federal Student Aid (FAFSA) or the Renewal Application for Student Financial Aid, designating MSU to receive a copy of the report. Additional documentation, including tax returns, W-2's and the Institutional Verification Worksheet, may be requested during the review process. No other application forms are necessary for the Federal Perkins Loan, Federal Supplemental Educational Opportunity Grant, Federal or State Work Programs or Federal Direct Student Loans; however, supplemental loans may require additional applications. Check with the Office of Scholarship and Financial Aid for details.

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

- Usually demonstrate financial need;
- Have a high school diploma, GED, or pass an independently administered test;
- Be enrolled as a regular student in a degree program;
- Be a U.S. citizen or eligible non-citizen;
- Maintain satisfactory academic progress.

Aid applications should be completed and mailed as early as possible after January 1 to assure fullest consideration. Campus-based funds such as Federal SEOG, Federal and Minnesota Work and Federal Perkins loans are usually awarded on a "first-applied, first-awarded" basis, with a priority deadline of March 1. Applications will be processed and awards made to the extent that funds are available. Students must apply each year.

FAFSA forms are available from high school counselors, from other post-secondary schools or from the MSU Office of Scholarship and Financial Aid. Returning students who previously applied for financial aid will usually receive a Renewal Application for Federal Student Aid.

#### **Aid Awards and Renewals**

Financial aid awards are made for a one-year period only, ending at the conclusion of spring semester (or summer for summer enrollees). Any change in students' financial resources (i.e., receipt of grants, educational loans or scholarships from non-university sources) should be reported to the Office of Scholarship and Financial Aid for possible adjustments to aid packages.

Most financial aid (grants, loans, scholarships) is disbursed during a scheduled fee payment period. Money not available at that time can be picked up in the Business Office. Students attending full-time or part-time can receive financial aid; however, minimum enrollment requirements vary from program to program. See the Financial Aid Award Guide for details. Students must meet all eligibility criteria before money, which has been awarded, may be disbursed.

#### **Enrollment Requirement**

Federal Pell Grant, Minnesota Grant, Federal SEOG and Federal Perkins loans are paid based on the number of enrolled credits at payment. To receive a full-time payment for Federal Pell, Federal SEOG or Federal Perkins, students must be enrolled for 12 or more credits per term. Minnesota Grant requires 15 credits for a full-time payment. Pell payments are determined based on the enrollment status on the seventh class day. Pell Grants cleared for payments after the seventh day will be based on enrollment at that time. Increases in enrollment after the seventh class day will NOT increase Pell payments. Federal Pell grants, Federal Perkins, and Federal SEOG prorate for less than 12 credits. Minnesota Grant pays based on a credit by credit basis for 3-15 credits. Students should check with the Office of Scholarship and Financial Aid for exact payment information.

Scholarships are generally paid only to students enrolled full-time (for 12 or more credits per term). The Work Program and other campus employment earnings are paid at regular two-week intervals based on hours actually worked. Signed time cards are required for all student employees.

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

#### **Summer Financial Aid**

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

### **Types of Financial Aid**

#### **Federal Pell Grant**

Eligible undergraduates may receive up to \$3,125 per year from the Federal Pell Grant program (1999-2000). Determination of eligibility is not made by the University but through the FAFSA application. Students must apply annually.

#### **Minnesota State Grant**

Minnesota residents who enroll at MSU may qualify for aid through the Minnesota State Grant with eligibility for up to four years of full-time enrollment. The MSU Office of Scholarship and Financial Aid determines aid eligibility. Awards are prorated on a credit by credit basis when enrollment is less than 15 credits per term. Students must apply annually.

#### **Scholarships**

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

#### **Federal Supplemental Educational Opportunity Grant (FSEOG)**

For undergraduates with financial need and who are eligible for the Federal Pell Grant, the Federal SEOG grant is available. Annual awards are determined by MSU. This grant is renewable on a "first applied, first awarded" basis to students who meet the March 1 priority deadline. This grant is limited to students who have not received a baccalaureate degree and who continue to demonstrate financial need. This program requires annual application.

**College Work Program (Federal and Minnesota)**

Students have the opportunity to earn part of their educational expenses through part-time work. Employment is usually in campus offices, departments or off-campus non-profit agencies. Working part-time an average of 10-15 hours per week, students can earn from \$300 to \$1,200 each semester. The actual amount varies with work schedule, pay rate, and students' demonstrated financial need. Priority is given to early applicants. Students must apply annually.

**Federal Perkins Loan**

Undergraduates may borrow up to \$4,000 annually, up to a total of \$20,000 during four years. Students must demonstrate exceptional financial need. This loan is to be repaid at 5 percent interest on the unpaid balance starting six or nine months after students leave the University. It has a maximum repayment period of 10 years and a minimum monthly payment of \$40. A portion of the principal and interest may be cancelled for certain types of public service and payment deferred for service in the Peace Corps, VISTA or the Armed Forces. Priority is given to early applicants. Students must apply annually.

**Federal Direct Student Loans**

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

**Minnesota Student Educational Loan Fund (SELF)**

This loan is available to graduate and undergraduate students who either need additional aid beyond the amount offered or have no financial need. Students must be enrolled in a degree program or seeking an additional major or minor. Eligibility is not based on financial need, nor is it limited by family income levels. It requires a co-signer and is a credit-worthy loan.

Freshmen and sophomores may borrow up to \$4,500 and juniors and seniors up to \$6,000 per year less any amount obtained through other financial aid received. Total amount of aid received cannot exceed the cost of education.

The interest rate is variable and the borrower is responsible for payment of interest while in school.

**Parent Loans for Undergraduate Students (PLUS)**

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

**Campus Employment**

Part-time job opportunities, which are not dependent on financial need, are available in the residence halls, dining service, campus security and other campus departments. Job information is available at Career Services or on-line at: <http://www.moorhead.msus.edu/home/jobshop/index.htm>

**Short-Term Loans**

Two types of short-term loans are available to MSU students currently enrolled for six or more credits who maintain a cumulative GPA of 2.00:

- Emergency Loans assist in unforeseen family, medical or personal circumstances. These loan amounts range from \$25 to a maximum of \$300, with a loan period averaging 30-60 days. Due dates are normally set no later than the end of the current semester.
- Term Bill Loans are designed to assist students in meeting MSU's term tuition, fee, room and board expenses. The maximum loan amount is 2/3 of the student's current term bill. Repayment must be made no later than one week prior to the end of the current semester.

Both loans carry an annual, simple interest rate of 15% with a minimum charge of \$2.00. Checks for Emergency and Term Bill Loans are normally available one working day after the application is approved.

**Post-Secondary Childcare Grant Program**

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

**International Student Assistance**

Non-U.S. residents planning to attend MSU must plan to provide their own finances. International students in the United States on student visas are not eligible for Federal Perkins, Federal SEOG, Work Program, Minnesota State Grants, Federal Pell Grant or the Federal Direct Student Loan Program. International students may qualify for a student loan under the Student Educational Loan Fund (SELF) if a United States credit-worthy co-signer is available. Students with refugee status may be eligible for the various federal student aid programs. Contact the International Student Advisor for financial planning information.

### Loan Counseling

All students, including transfer students, who are scheduled to receive a Federal Direct Loan (both Subsidized and Unsubsidized) and SELF Loans must attend loan counseling workshops. Entrance counseling attendance must be documented in the financial aid file before any loan proceeds are disbursed. Before graduating or leaving school, loan recipients must attend an Exit counseling session. Federal Perkins loan borrowers have separate loan counseling requirements.

### Policy Standards for Financial Aid

Federal and state regulations require that all students meet satisfactory academic progress toward completion of degree or certificate requirements to receive student financial aid. Failure to meet satisfactory progress standards results in ineligibility for state and federal program including all grants, loans, the campus Work Program, Vocational Rehabilitation, Non-AFDC Childcare and Indian Scholarships. Monitoring of satisfactory progress will be done every semester and review for continued eligibility will be done yearly. Standards are published yearly. The complete Standards are available in the Student Handbook, Award Guide and the Office of Scholarship and Financial Aid.

Students are required to meet academic standards as discussed in the *Bulletin*. Refer to the *Bulletin* for complete MSU policy regarding minimum academic standards. All appeals regarding GPA should be directed to the Office of Academic Affairs.

Current standards require students to satisfactorily complete 67% of their total cumulative attempted MSU credits (**including accepted transfer credits**) with a grade of "D" (or "P" or "S" if enrolled on a pass/fail or satisfactory/unsatisfactory basis). Students who fail to complete the 67% at the end of fall semester will receive a warning letter. Students who fail to complete the 67% at the end of spring semester will be placed on aid termination. Students may file an appeal to the Office of Scholarship and Financial Aid, and appeals will be reviewed on a case by case basis.

In addition, students must complete their program of study within a specific number of credits. Students reaching credit limits at the end of a term will have financial aid termination effective the following semester. Credit totals include accepted transfer credits. Grades of "F", "W", "U", and "I" count as credits attempted but not earned. The Office of Scholarship and Financial Aid requires an appeal or approved degree plan when programs exceed these limits.

**Courses not included in calculating satisfactory academic progress:** Courses taken for audit are not used in the calculation of Satisfactory Academic Progress and do not count as credits attempted or earned for purposes of financial aid.

### Minnesota Grant Eligibility

#### Minnesota Grant Eligibility

Additional regulations regarding eligibility for Minnesota Aid (Minnesota State Grant, Minnesota Work Funds, and Non-AFDC Childcare) require that students meet minimum GPA's. Fifteen or more enrolled credits per semester are defined as full-time enrollment for the Minnesota State Grant and Non-AFDC Childcare. Calculation of the Minnesota State Grant will be prorated on a per credit basis for three to fourteen credits. For other financial aid programs, full-time is defined as 12 credits.

### Withdrawals and Repeated Courses

If a student withdraws from MSU before financial aid is available for distribution, the student will not receive any aid since no progress has been made toward a degree. If a student withdraws for any reason during the semester after student aid has been distributed, standard MSU refund policies and procedures will be followed.

Students who repeat a course may receive financial assistance more than once for enrollment in the same course. When a course is repeated, each enrollment is included in calculating the percentage of successfully completed credits at the end of the academic year, and the total number of attempted credits is used to determine the length of eligibility.

The complete Standards are available in the Student Handbook, Award Guide, and in the Office of Scholarship and Financial Aid.

### Scholarship Funds

#### MSU Scholarship Program

Through the MSU Alumni Foundation and the Charles and Ellora Alliss Foundation, MSU awards more than 500 scholarships annually to incoming freshmen, transfer students and upperclassmen. Students must meet University admission standards and deadlines. Dragon and University Scholarships are automatic awards made on a first-applied, first-admitted basis. These scholarships are awarded in late fall and early January while funds remain available. No special application is required. Any scholarship dollars awarded to students who are receiving financial aid will become part of the financial aid package. Scholarship awards are applied to tuition and fee statements.

#### Honors Apprentice Scholarship

This scholarship for \$3,000 includes the unique opportunity to apprentice in an academic or administrative department for 8 hours each week, acquiring hands-on training and skills. This award is renewable for three years if academic requirements are met. Applicants are in the top 5% of their high school rank and ACT scores. The application form is mailed to qualifying students.

**Excellence Award**

Students who are National Merit Finalists are awarded \$2,000 per year, renewable for three years, if academic requirements are met. The National Merit certificate must be provided to the Office of Scholarship and Financial Aid.

**Minority Scholars Program**

Scholars receive \$2,250 per year, renewable for three years, if academic requirements are met. The scholarship includes the opportunity to apprentice in an academic department for five hours each week, acquiring hands-on experience. Applicants are in the top 25 percent of their high school class and score well on standardized tests. Awards are open to Black American, Native American, Hispanic American and Asian American students.

**President's Scholarship**

The President's Scholarship provides \$500 for the freshman and sophomore years. Awards are made based on high school rank, ACT scores, and student activities, leadership, and community service. This scholarship is also available to transfer students.

**Special Talent Freshman Scholarship**

Available to students who demonstrate exceptional talent in areas of art, music, speech, or theatre arts. Recipients are selected by department faculty. Apply directly to the department. Awards are between \$200 and \$750.

**Second Start Freshman Scholarship**

Awards are available to older-than-average students pursuing an undergraduate degree whose life experiences convey a potential for success at the university level. Applicants must be 25 or older and have not attended a post-secondary institution full-time within the last three years. Awards are \$500.

**Transfer Scholarships**

These are awarded to undergraduate transfer students with successful college coursework completion. The President's Transfer Scholarship is based upon academic achievement and civic involvement. This Award is a total of \$1,000 awarded over two years. The Community College Automatic Award provides \$500 to students with a cumulative GPA of 3.5 to 3.79 and \$750 to students with a cumulative GPA of 3.8 or higher. Students must have completed a two year community college degree prior to enrollment at MSU. The General Transfer Scholarship is based upon academic achievement and the award amount varies.

**Upper-class Academic Scholarships**

Applicants are undergraduate students with a minimum cumulative GPA of 3.50 and completion of at least 15 MSU credits. The award recognizes outstanding academic achievement, leadership, and contributions to campus and community organizations. Applications are usually available in November/December of each year in the Office of Scholarship and Financial Aid. Awards are between \$300 and \$750.

**Minority Scholarships**

Scholarships are awarded to Black Americans, Native Americans, Hispanic Americans, and Asian Americans who have a minimum GPA of 2.5. Awarded to both incoming freshmen and upperclassmen. Awards range from \$300 to \$1,500.

**Athletic Talent Grants**

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

**ROTC Scholarships**

Both the Army and Air Force ROTC Departments offer scholarship opportunities to students who take part in a ROTC program. Scholarships pay for full tuition and fees, a book allowance and \$100 per month. To apply, go to the Army or Air Force ROTC Departments in the PE building at North Dakota State University.

# Academic Information

## Academic Change of Requirements

Within practicable limits, academic policies and requirements at MSU are not retroactive, and students entering a degree program can expect to complete that program under the requirements specified at the time they actively enroll in the program, unless enrollment is interrupted for more than one year. When a required course for a previous program is no longer offered, students may substitute another course or courses with the approval of the faculty dean or director.

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

## Academic Year

The academic year at MSU is arranged into Fall and Spring semesters of approximately 16 weeks each and a Summer semester comprised of two five-week sessions and short-term workshop sessions.

Students may enter the University at the beginning of any term although the academic year begins officially with the Fall semester.

## Units of Credit

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

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

## Graduation Requirements (Bachelor's Degree)

- At least 128 credits are required for a four-year bachelor's degree and, at least 43 semester hours in upper division courses (300/400 level) are required to earn any baccalaureate degree.
- Accumulation of 128 credits, alone, does not result in a degree. Credits must be earned as part of a baccalaureate program approved by the Board of the Minnesota State Colleges and Universities. Students are responsible for making certain their course work fulfills requirements for a major in their designated degree.
- Candidates must have a GPA of at least 2.0 for all credits applied to the degree program and for all courses attempted at MSU. (Students should check with the major department to find out specific graduation GPA requirements.)
- Candidates must complete the Liberal Studies requirement of at least 45 credits with a GPA of at least 2.0 for all courses applied to the requirement. In the case of transfer students, a GPA of at least 2.0 for all MSU courses applied to Liberal Studies is required.
- The degree program must include at least one major with a GPA of 2.0 or above.
- All students who graduate from MSU must complete an upper level writing requirement. Specifics on this requirement are available from the major department or advisor.
- No minor is required, but a GPA of at least 2.0 must be attained in any minor presented for graduation.
- Candidates must be enrolled as a resident student registered and paid at MSU (A) for at least two semesters, (B) for at least 30 of the last 64 credits, (C) for at least 8 of the last 12 credits applied to the degree, and (D) at least 6 credits must be earned from the MSU department which awards the major.
- No more than 10 correspondence credits may be applied.
- An application for graduation must be submitted to the Records Office prior to the semester in which candidates expect to complete graduation requirements. Students must secure the approval of each major and minor advisor and department chairperson before submitting the application. Candidates for graduation must have official transcripts from all previous post-secondary institutions on file in the Records Office. No student will be eligible for graduation while in special or on-degree status.
- Candidates for graduation with a teaching major shall fulfill all teacher licensure requirements listed in the Teacher Education section of this catalog. Specific exceptions to these graduation requirements are listed under such programs as Continuing Studies.

## Four-Year Graduation Guarantee

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

### The graduation guarantee is offered by the following programs:

Accounting  
 American Studies  
 Anthropology  
 Art (B.A. and B.S.)  
 Biology (B.A. in Biology)  
 Business Administration  
 Chemistry  
 Computer Science and Information Systems  
 Criminal Justice  
 Economics  
 Elementary & Early Childhood Education  
 English (B.A.)  
 Finance  
 Graphic Communications  
 History  
 Health  
 International Business  
 Management  
 Marketing  
 Mass Communications  
 Mathematics  
 Music (B.A. and B.M. in Performance)  
 Paralegal  
 Philosophy  
 Physical Education  
 Physics  
 Political Science  
 Psychology  
 Secondary Education/Foundations (Except Life Science and Music)  
 Social Work  
 Sociology  
 Special Education (EBD, SLD, DD, P/HD, ECSE)  
 Speech/Language/Hearing Sciences  
 Speech/Theatre (B.A. only)  
 Technology

### Conditions:

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

1. All Fall Semester freshmen wishing to participate in the graduation guarantee program must complete the guarantee application form and officially declare a major before the drop deadline (7<sup>th</sup> day) of Fall Semester.
2. All participating students must be qualified to begin without remedial courses as determined by the department.

3. All participating students must preregister for classes each semester and have their class schedules approved by their official departmental advisor.
4. All participating students must meet any program GPA or grade requirements as stipulated in the *Bulletin* or schedule of classes.
5. All participating students must successfully complete an average course load of 16 credits each semester (32 credits/year).
6. Participating students selecting a major requiring a minor must choose the minor no later than the end of their first year.
7. Any courses failed or repeated will void the guarantee.
8. Any change in major, options, or minor will void the guarantee.
9. Required internships and research projects are beyond the scope of the guarantee (except for chemistry research).

## Liberal Studies

All University baccalaureate degree programs require the completion of 45 semester hours in Liberal Studies.

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

### Purposes of the Liberal Studies Program

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

Students should understand: (1) their work, society and self in an objective and critical manner; (2) the past, so as to more intelligently cope with the present and future; (3) the scientific method; (4) the development and diversity of American civilization and culture; (5) cultures and geographic regions other than their own in an increasingly complex and interdependent global community; and (6) major intellectual, scientific and artistic contributions of Western and non-Western civilizations.



Students should develop: (1) a positive attitude toward lifelong learning and various modes of inquiry; (2) the ability to learn independently; (3) the abilities needed to adapt to diverse situations and contribute as citizens of a changing society; (4) a respect for the complexity of the natural and social worlds and an appreciation for their interdependence; (5) a respect for the rights and values of others and for cultures different from their own; and (6) a sense of aesthetic standards in judging creative works.

**The Liberal Studies divisions are as follows:**

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

**Division B:** Natural Sciences and Their Processes - Courses in the natural sciences prepare students to make connections between concrete observations and scientific interpretations and to use appropriate methods of inquiry and analysis to solve complex problems. Through this process, students can become more aware of the experience of the world around them and more appreciative of the important part science and scientific reasoning play in everyday life.

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

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

**Division E:** Communicative and Symbolic Processes - Courses in communicative and symbolic processes involve a study of language in one of two areas: (1) in written and oral languages for communication; and (2) in symbolic and mathematical languages for problem solving. Students will expand their development of skills in their use of written, oral, and symbolic languages to

communicate ideas, to analyze and to solve problems, to apply inductive and/or deductive reasoning, and to understand other people.

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

**Requirements**

**Division A:** English Composition and Literature—English 101 and 102—at least 6 credits required.

**Division B:** Natural Sciences and Their Processes—at least 6 credits required and must include one course designated B1 (natural sciences courses with an observational/experimental component). Designated courses are from astronomy, biology, chemistry, geography, geology, and physics.

**Division C:** Behavioral and Social Sciences—at least 6 credits required. Designated courses are from art, anthropology, economics, geography, history, political science, psychology, and sociology.

**Division D:** Western Tradition: Humanities and Fine Arts—at least 6 credits required and must include one course designated D1 (those courses in western tradition that are substantially historical in perspective). Designated courses are from American studies, art, literature, courses in English and foreign languages, humanities, music, philosophy, and speech, and Women's Studies.

**Division E:** Communicative and Symbolic Processes—at least 6 credits required and must include one course designated E, (designated courses are from English and foreign languages, philosophy, and speech) and one course designated E1 (courses which are college-level mathematics).

**Division F:** Multicultural and Global Studies—at least 5 credits required and must include one course designated F1 (those courses which are identified with cultural diversity). Designated courses are from American studies, anthropology, Chinese, English, economics, geography, history, humanities, Japanese, multicultural studies, music, philosophy, sociology, and speech. No more than 2 courses may be applied in Division F.

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

	<b>Credit</b>	<b>Grade</b>	<b>Grade Points</b>
<b>A. Freshman English (at least 6 credits)</b>			
A _____	_____	_____	_____
A _____	_____	_____	_____
<b>Subtotal</b>	_____	_____	_____
<b>B. Natural Sciences &amp; Their Processes (at least 6 credits)</b>			
B1 _____	_____	_____	_____
B or B1 _____	_____	_____	_____
_____	_____	_____	_____
<b>Subtotal</b>	_____	_____	_____
<b>C. Behavioral and Social Sciences (at least 6 credits)</b>			
C _____	_____	_____	_____
C _____	_____	_____	_____
_____	_____	_____	_____
<b>Subtotal</b>	_____	_____	_____
<b>D. Western Tradition: Humanities and Fine Arts (at least 6 credits)</b>			
D1 _____	_____	_____	_____
D or D1 _____	_____	_____	_____
_____	_____	_____	_____
<b>Subtotal</b>	_____	_____	_____
<b>E. Communicative and Symbolic Processes (at least 6 credits)</b>			
E _____	_____	_____	_____
E1 _____	_____	_____	_____
_____	_____	_____	_____
<b>Subtotal</b>	_____	_____	_____
<b>F. Multicultural and Global Studies (at least 5 credits)</b>			
F1 _____	_____	_____	_____
F or F1 _____	_____	_____	_____
<b>Subtotal</b>	_____	_____	_____
<b>Totals</b>	_____	_____	_____

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

Term: _____		Year: _____		Total Credits: _____	
Dept./No.	Course Title			Credits	
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Term: _____		Year: _____		Total Credits: _____	
Dept./No.	Course Title			Credits	
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**(See the Liberal Studies Worksheet for planning purposes.)**

Courses in a student's major discipline may not be applied to the Liberal Studies requirement. This limitation applies to one major only; courses in a second major, a minor, or in "related requirements" specified by a major may be applied to the Liberal Studies requirement.

MDS (New Center) courses may not be applied to Liberal Studies except by students officially admitted to the New Center.

Courses taken for Pass/No Credit grades may not be applied to Liberal Studies.

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

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

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

**Minnesota Transfer Curriculum**

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

In order to complete the Moorhead State University transfer curriculum, a student must complete the following requirements, based upon ten areas of emphasis.

- 1. Communications: 2 courses (6-8 credits).**  
Courses meeting these requirements may be found in Liberal Studies Divisions A and E, except foreign language courses which count in the Global area (see 8).
- 2. Critical Thinking: 1 course (3-4 credits).**  
Courses meeting these requirements may be found throughout the curriculum.

- 3. Natural Science: 2 courses (6-10 credits).**  
Courses meeting these requirements may be found in Liberal Studies Division B. At least one course must be a B1 course.
- 4. Mathematics/Logical Reasoning: 1 course (3-4 credits).**  
Courses meeting this requirement are found in Liberal Studies Division E1.
- 5. History and Social/Behavioral Sciences: 2 courses from 2 areas (6-8 credits).**  
Courses meeting these requirements may be found in Liberal Studies Division C.
- 6. Humanities and Fine Arts: 2 courses from 2 areas (6-8 credits).**  
Courses meeting these requirements may be found in Liberal Studies Division D, including D1 courses.
- 7. Human Diversity: one course (3-4 credits).**  
Courses meeting this requirement may be found in Liberal Studies Division F1.
- 8. Global Perspective: one course (3-4 credits).**  
Courses meeting this requirement may be found in Liberal Studies Division F, as well as foreign language courses above the beginning level from Liberal Studies Division E.
- 9. Ethical and Civic Responsibility, 1 course (3-4 credits).**  
Courses meeting this requirement may be found in offerings of the departments of political science and philosophy as of summer of 1999.
- 10. People and the Environment, one course (3-4 credits).**  
Courses meeting this requirement may be found in offerings of the departments of anthropology, biology, chemistry, geology, and sociology as of summer 1999.

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

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

**Freshman Year Requirements**

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

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

## First Year Experience (FYE)

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

### FYE course highlights include:

- Transition to the College Experience
- Self-Awareness
- Goal Setting and Time Management
- Academic Skills Building
- Career Development
- Advising and Course Registration
- Personal and Social Responsibility

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

For more information, contact the Coordinator of FYE, Comstock Memorial Union 222, (218) 299-5859 V/TTY, or check out the FYE web site at <http://www.moorhead.msus.edu/fye>.

## Advising

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

### Students may expect that their advisors:

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

### Advisors may expect that the student:

1. Will make and keep appointments;
2. Will prepare for advisor appointments by giving thoughtful consideration to life/career goals, fields of study, and personal interests;
3. Will keep his or her advisor informed when there are changes in objectives, course selection, academic plans, or progress;

4. Will maintain up-to-date personal records of academic progress and will resolve discrepancies on official grade reports and/or other University documents; and
5. Recognizes that he or she bears the ultimate responsibility for the development and implementation of his or her academic plan of study, including meeting graduation requirements.

### Advisor Assignment and Changes

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

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

Peer advising services are available in most departments to supplement faculty advising.

### Multiple Majors and Degrees

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

Students who seek more than one baccalaureate degree (different designations, i.e. B.A. and B.S.) will be required to complete at least 30 credits beyond the minimum of 128 credits applied to the first degree.

Students who hold a previous baccalaureate degree from MSU or from another institution whose degree is recognized by MSU, may earn an additional bachelor's degree (but not an associate degree) by:

1. completing at least 30 resident credits at MSU;
2. meeting all MSU course requirements for the degree program, including at least 6 credits from the MSU department awarding the degree and including an approved major and teacher education requirements for any teaching major; and
3. maintaining at least a "C" average in all studies at MSU.

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

Students completing two majors must meet departmental requirements for each major. **Minimum** credits for graduation are 128 credits.

## Individualized and University Studies Majors

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

The forms used to petition for these majors are available from the Continuing Studies office. (See Individualized Major and University Studies Major under the Special Programs section of this *Bulletin*.)

## Minors Through Exchange

The Tri-College University commissioners have agreed that students completing minors on one of the other campuses should be given recognition for this accomplishment on their graduation transcripts. Thus, a MSU student could complete a minor in e.g., agronomy or horticulture at one of the other TCU schools and, upon graduation, that student's transcript would so indicate.

### Procedures for implementation of this policy are as follows:

- Students should request that the Registrar of the University/College in which the minor has been earned send a memo indicating completion to the MSU Registrar immediately after the minor has been finished.
- Students should indicate the minor on the Application for Graduation form. Such TCU minors may be elected only if equivalent minors are not available at MSU.

## Teaching Majors and Minors

Requirements for the major programs in elementary education and special education are listed under the respective departments in this catalog. Teacher licensure requirements are listed under Teacher Education. **Students who seek licensure must maintain close contact with their advisor as there will be major changes in licensure requirements for students who will graduate after September 1, 2001.**

## Associate Degree

MSU offers the Associate in Arts degree in Liberal Arts. The degree requires:

- At least 64 semester credits, including at least 22 credits in courses from MSU.
- A GPA of at least 2.00 in all MSU courses applied to Liberal Studies, a 2.00 GPA in all courses applied to the A.A. degree, and a 2.00 in all courses taken at MSU.
- Students who earn the A.A. degree must complete the Liberal Studies requirement of 45 credits. Remaining electives to fulfill the 64 credit requirement are subject to the approval of the student's faculty advisor.
- Students who are admitted to and complete the associate degree and who decide to continue with a baccalaureate program, may do so by meeting all additional requirements for the bachelor's degree, including the restriction against using courses from the major discipline to satisfy Liberal Studies categories. Questions should be directed to the Director of Academic Support Programs (218) 236-3586.

## Resident Credits

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

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

## Armed Service Credits

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

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

## Transfer of Credits

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

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

Courses similar to those allowed for the Liberal Studies requirement at MSU will usually be considered equivalent for the purpose of meeting course requirements. However, the student must complete a total of at least 45 credits in Liberal Studies courses and meet all distribution requirements.

A maximum of 6 credits will be granted for courses from religion departments of regionally accredited public and private institutions. No courses in applied religion studies will be accepted.

Minnesota State Universities do not offer correspondence courses. Up to 10 semester hour credits of correspondence study from another accredited institution may be applied to an undergraduate degree program.

Credit is awarded for departmental examinations or waivers of credit from other institutions.

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

## Minnesota Transfer Curriculum Two-Year Colleges

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

Transfer credits may not be applied to meet an area requirement at MSU (Liberal Studies, major, or minor) unless they also meet the corresponding GPA requirement for the academic area. Degree candidates who have attended a two-year institution must complete at least 64 credits from MSU or other four-year college unless they have entered under a duly authorized articulation agreement.

All baccalaureate degrees will require at least one-third (43 credits) of the graduation credits to be at the upper division (300-400) level.

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

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

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

## Program Collaboration and Articulation Agreements

MSU has a number of collaborative agreements to serve students who need to transfer with minimal loss of time and credits.

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

A number of articulated agreements to enable students to transfer into MSU's baccalaureate programs with ease have been established. Programs exist with a number of institutions, including Alexandria Technical College, Anoka-Hennepin Technical College, Anoka Ramsey Community College, Central Lakes College, Century College, Dakota County Technical College, Fergus Falls Community College, Hennepin Technical College, Hibbing Community College, Inver Hills Community College, Itaska Community College, Lake Superior College, Mesabi Range Community and Technical College, Minneapolis Community and Technical College, Minnesota West Community and Technical College, Normandale Community College, North Hennepin Community College, Northland Community College, Northwest Technical College (Brainerd, Detroit Lakes, Moorhead, and Wadena campuses), Pine Technical College, Rainy River Community College, Red Wing/Winona Technical College, Ridgewater College, Minnesota Riverland Technical College, Rochester Community College, South Central Technical College, St. Cloud Technical College, St. Paul Technical College, and Vermillion Technical College in Minnesota and Bismarck State College and North Dakota State School of Science in North Dakota.

## Advanced Placement

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

**To receive Advanced Placement credit, students must:**

1. have the approval of the high school;
2. complete the program successfully (usually with a score of 3 or better); and
3. enroll at MSU following high school graduation.

All records must be forwarded from the College Entrance Examination Board, and the University reserves the right to evaluate such records and determine the credit to be assigned, normally three (3) semester credits per examination. Credit shall be given for a specific college course if the AP exam covers substantially similar material and AP exams will be granted the same number of credits as the course they replace. If the test material does not match an existing course, students shall be given elective credit for the course.

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

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

## Credit by Departmental Examination

Students may challenge a course at MSU through an examination for credit if:

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

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

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

Following such announcement or written permission, students must secure an "Examination for Credit" form at the Office of Academic Affairs. Current enrollment must be verified by the Records Office.

The completed form must be presented at the Business Office, where the form will be stamped and a receipt issued upon payment of an examination fee of \$7.50 per credit. The stamped form will be collected as an admission slip at the time of the examination.

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

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

No student may repeat any examination for credit.

## International Baccalaureate

MSU will award credit for International Baccalaureate Diplomas and for individual higher level examinations. Students who complete an IB diploma with a score of 30 or higher shall be granted 8 semester credits for each of three higher level examinations, plus 2 semester credits for each of the subsidiary exams, for a total of 30 semester credits. No credit shall be given for subsidiary level exams other than those included as part of the IB diploma as described earlier. Students may receive credits, as described above, for any higher level exams with a score of 5 or higher.

IB credit may be used toward the Liberal Studies requirement. AP, IB, or CLEP credit will not be granted in the same academic discipline.

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

## Credit by CLEP Examination

The Records Office at MSU will provide information about the College Level Examination Program (CLEP) and will administer the CLEP Subject Examinations to interested students.

Procedures will be the same as for Credit by Departmental Examination except that the Registrar's Office will administer the examination. The cost for each examination is \$42.

Three (3) or (4) semester credits will be awarded for successful performance on each CLEP Subject Examination depending on the credit assigned to the MSU course the CLEP exam replaces. Credit will be awarded only if students achieve standard scores recommended by the Council on College-Level Examinations. However, credit will not be given to students who have previously or currently enrolled in courses in the same subject.



**Following are the approved Subject Examinations:**

American Government (3)  
 American History II (4)  
 American Literature (4)  
 Analyzing and Interpreting Literature (4)  
 Calculus (4)  
 College Algebra (3)  
 College Algebra-Trigonometry (3)  
 College French (4)  
 College German (4)  
 College Spanish (4)  
 Computers and Data Processing (3)  
 Educational Psychology (3)  
 English Literature (4)  
 Fortran Programming (3)  
 Freshman College Composition (4)  
 General Biology (4)  
 General Chemistry (4)  
 General Psychology (3)  
 History of the United States (4)  
 Human Growth and Development (3)  
 Introductory Business Law (3)  
 Introductory Sociology (3)  
 Principles of Management (3)  
 Principles of Marketing (3)  
 Principles of Macroeconomics (3)  
 Principles of Microeconomics (3)  
 Trigonometry (3)  
 Western Civilization I and II (4 each)

Credit earned by CLEP examination may be applied to Liberal Studies requirements but may not be applied to a major curriculum except with departmental approval. The CLEP Subject Examinations are recommended only for students with advanced knowledge in subject fields not usually acquired in typical high school curricula. Credit earned through CLEP examination is not resident credit and may not be used to satisfy resident credit requirements for graduation. AP, IB, or CLEP credit will not be granted in the same academic discipline.

Credit will also be awarded for equivalent performance on CLEP Subject Examinations taken at other test centers, including the military services. CLEP credit is introductory level course credit. Students who wish to earn credit through the CLEP examination process after matriculating at MSU must take the examination(s) during their first semester of attendance at MSU. Students are limited to a maximum of 12 credits through the CLEP process. Credit is not given for the CLEP General Examinations.

**Credit for Prior Learning**

MSU recognizes that some students have learned college material prior to admission. Typically this learning takes place as a result of job or volunteer experience. MSU provides an opportunity for its students to obtain college credit for this learning experience. The evaluation of this type of learning is done by faculty who teach the subject matter on campus; thus credits cannot be evaluated in areas that MSU does not have faculty expertise. Credit acquired in this manner is generally not transferable to other institutions of higher education. Credit for prior learning is not granted for graduate credits.

Any student who has been admitted to a degree program at MSU and completed a minimum of 16 credits with a GPA of 2.0 or better, is eligible to apply for credit for prior learning. Application includes presentation of a portfolio of information that validates what has been learned. For more information, contact Continuing Studies at (218) 236-2182.

**Pass-No Credit Grades**

- Students with sophomore, junior, or senior standing may take courses for Pass-No Credit grades in areas outside the major or minor discipline.
- No course with Pass-No Credit grades may be applied to Liberal Studies.
- Students may take no more than one course per semester for Pass-No Credit grades. Students may apply up to 16 credits under the Pass-No Credit option to a baccalaureate degree program.
- No course which students have previously failed may be repeated under the Pass-No Credit option.
- Credits earned under the Pass-No Credit option will not be included in computing GPA's.
- A grade of "P" will be recorded for any course successfully completed under the Pass-No Credit option. No entry will be made if students fail to earn credit.
- A Pass-No Credit agreement form, available from the Records Office, must be signed by the student and the advisor and returned to the Records Office on or before the tenth class day of the semester (fifth class day of a summer session.)

**Pass-Fail Courses**

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

The Vice President for Academic Affairs may grant permission for other courses to be graded pass-fail. All students in an approved course shall be graded on the pass-fail basis.

### Auditing Courses

Students who wish to audit or attend a course without seeking credit must be admitted to the University, register for the course, and pay full tuition and fees. Classes taken for audit are not eligible for financial aid. Students may be billed for financial aid if classes taken for credit are later changed to audit status.

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

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

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

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

### Grades and Grade Points

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

A+	.....	4.00	Grade points per credit
A	.....	4.00	Grade points per credit
A-	.....	3.67	Grade points per credit
B+	.....	3.33	Grade points per credit
B	.....	3.00	Grade points per credit
B-	.....	2.67	Grade points per credit
C+	.....	2.33	Grade points per credit
C	.....	2.00	Grade points per credit
C-	.....	1.67	Grade points per credit
D+	.....	1.33	Grade points per credit
D	.....	1.00	Grade points per credit
D-	.....	0.67	Grade points per credit
F	.....	0.00	Grade points per credit
N	.....	0.00	Grade points per credit
I	.....		Incomplete
P	.....		Satisfactory
IP	.....		In Progress
AU	.....		Audit
W	.....		Withdrawal

### Grade Point Average

The grade point average (GPA) is computed by dividing the number of grade points earned in a given course or courses by the number of credits attempted. The GPA is based on MSU grades only. Transfer courses are not used in computing the GPA.

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

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

### Incomplete Credits

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

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

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

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

### Repeating Courses

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

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

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

### Academic Standing

The cumulative GPA for all courses attempted at MSU is the basis for determining academic standing. Students with a GPA of 2.0 or better are considered to be in satisfactory academic standing.

## Academic Forgiveness Policy

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

- The student must not have been enrolled at MSU for a minimum of five consecutive years prior to the "point of academic forgiveness."
- Upon readmission, the student must demonstrate adequate academic ability by completing 12 undergraduate credits at MSU with a minimum GPA of 2.0.

Academic forgiveness cannot be granted if a student has earned a post-secondary degree following their initial MSU attendance and has applied MSU credits toward that degree.

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

- The transcript will be separated into two sections indicating the point of academic forgiveness. Academic forgiveness will be indicated on the transcript.
- No credits will be granted for any course completed at MSU prior to the point of academic forgiveness. However, the course titles and grades from these courses will remain on the transcript.

Calculation of the student's GPA will not include grades received prior to the point of academic forgiveness.

## Academic Suspension

MSU's suspension policy requires students to achieve the following cumulative GPA's at the points indicated:

- 12 or more attempted credits, including at least 12 credits with grades other than S: 1.60
- 40 or more attempted credits: 1.90
- 90 or more attempted credits: 2.00

Attempted credits include all courses on students' records, including withdrawals, repeated courses, and incompletes.

Students who fall below these standards are on academic probation; i.e., could be suspended at the end of the current semester. Transfer credits are included in the attempted credit number, but only MSU courses are computed in the student's GPA.

Students who are on academic probation may not preregister for any semester.

Students who are on academic probation are eligible to continue enrollment at MSU beyond the current semester if they either:

1. raise their cumulative GPA to the appropriate minimum listed above by the end of the semester, or
2. attain a semester GPA of 2.0.

Students on academic probation who do not fulfill either of these requirements are suspended for one semester, not including the summer term. A second suspension is for one calendar year; third and subsequent suspensions will be for two calendar years. Students must apply for reinstatement at the Office of Academic Affairs one month prior to the beginning of the semester for which they wish to be reinstated. If the application is denied, they may appeal to the Suspension Appeals Committee.

All students who are placed on academic probation are immediately notified of their status on their semester grade reports. They also receive letters explaining MSU's suspension policy, specifying what they must achieve to continue enrollment after the end of the current semester.

Because New Center courses yield credits but no grade points, New Center students cannot be placed on academic probation because of low grades until they have enrolled for at least 12 graded credits (non-New Center courses). However, New Center students are required to complete 75% of their attempted credits and have a 2.0 in those courses which are graded A-F. New Center students who fail to meet this standard will be placed on probation. Students will be notified by letter of their status. Suspended students may appeal their suspension status.

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

## Academic Honors

Three levels of honor students are recognized annually at the spring semester Honors Convocation:

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

To be eligible, a student

1. Must have completed at least 15 graded credits at MSU during the Fall semester of the current year,  
**OR**
2. Must have
  - a. Completed at least 60 post-secondary semester credits, including at least 30 graded semester credits at MSU,  
**AND**
  - b. Completed at least 12 graded semester credits at MSU in the Fall semester of the current year.

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

Students who complete at least 64 credits at MSU as candidates for baccalaureate degrees may graduate with the following honors:

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

Such honors are computed only from the cumulative GPA at MSU. Examination credits, AP, IB, or CLEP credits may not be counted toward the 64 credit total.

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

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

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

## Classification of Students

Students at MSU are divided into classes as follows:

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

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

## Internship Policies

Students planning to complete an internship must execute an internship agreement which is signed by the student, University personnel, and personnel at the student's internship site.

## Background Checks

Minnesota law requires that any person who provides services that involve direct contact with patients and residents at a health care facility licensed by the Minnesota Department of Health have a background study conducted by the state. Any individual who is disqualified from having direct patient contact as a result of the background study, and whose disqualification is not set aside by the Commissioner of Health, will not be permitted to participate in a clinical placement in a Minnesota licensed health care facility. Failure to participate in a clinical placement required by the academic program could result in ineligibility to qualify for a degree in this program.

Students whose programs may involve health care facilities should contact the chairperson of their major program. Forms may be obtained from the program chair and the Affirmative Action Officer, who has been designated as MSU's responsible official.

## Student Liability

Students are clearly liable for their actions and may be sued (along with others) for damages due to negligence. MSU has a Student Professional liability policy which covers students engaged in internships. The coverage is for \$1,000.00 per occurrence and \$3,000.00 in aggregate.

If the student does not have a formal internship agreement and therefore does not have a formally acknowledged internship (i.e., no credit hours, etc.), the student is NOT covered by the University Student Professional Liability policy.

## Registration Procedures

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

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

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

## Evening Course Registration

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

Students who register only for evening courses may do so at the first class meeting or at the regular time for registration. Registration for evening courses is closed after the seventh day of the term, unless the course begins after mid-term.

## Off-Campus Registration

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

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

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

## Late Payment

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

## Tri-College University Registration

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

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

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

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

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

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

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

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

## Excess Credit

To register for more than 18 credits during any semester (9 credits during a summer session) students with fewer than 60 earned credits must fill out an Excess Credit form. This form must be signed by both the student's advisor and the faculty dean. No student may register for more than 20 credits without an Excess Credit Permit.

## Change of Program — Adding or Dropping Courses

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

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

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

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

- **Fall-Spring:** by the end of the eleventh week (55th class day).
- **Summer Sessions:** by the end of the third week (15th class day).

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

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

Each change of program requires the following procedures:

1. Complete a Drop/Add form, available from the Records Office.
2. Secure the instructor's signature for each class dropped after fifth day of a term.
3. Secure the instructor's signature for each class added after fifth day of a term.
4. Secure the faculty advisor's signature after fifth day of a term.
5. Present the form for processing at the Records Office.

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

To withdraw from an evening class, either on-campus or off-campus, students must notify both the instructor and the Registrar in writing by the withdrawal deadline of the semester. If a change of program results in an increase in the number of credits, the corresponding additional tuition must be paid before the change will be fully implemented.

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

## Withdrawal from Enrollment

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

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

"W" grades cannot be granted if the complete withdrawal takes place later than the normal withdrawal deadline of the semester. Under special circumstances, students may pursue "retroactive withdrawal" after this deadline by filing an Academic Appeal (contact the Office of Academic Affairs, Owens 205).

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

## Military Withdrawal

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

## Family Educational Rights and Privacy Act

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

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

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

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

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

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

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

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

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

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

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

**Family Policy Compliance Office  
U.S. Department of Education  
600 Independence Avenue, SE  
Washington, DC 20202-4605**

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

You may refuse to permit the disclosure of directory information if you notify MSU's Registrar in writing that you do not want such information disclosed. This written refusal to permit the disclosure of directory information must be made within 45 days of the date you begin taking classes at MSU.

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

## Appeal of Academic Policies

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

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

The Committee on Academic Appeals reviews the appeal and approves or denies the appeal.

Students who are not satisfied with the decision of the Academic Appeals Committee may appeal to the Associate Vice President of Academic Affairs whose decision is final.

The Curricula Section lists the academic departments of Moorhead State University as of June 1999, arranged in alphabetical order by subjects. This section lists areas of study, and major and minor requirements. Credit values are expressed in semester hours and appear in parentheses following course titles. One semester credit represents one 50-minute class meeting each week for a 16-week term, although this pattern may vary for laboratory, activity and individualized courses.

## Accounting

Accounting Department

Center for Business 207A, ((218) 236-4646

Chair: George Sanderson

Faculty: Mary Bader, Leland Dexter, Marilyn Maus, Judy McLean, Cynthia Phillips, Marlane Sanderson, Leonard Sliwoski, William Violet

### ACCOUNTING CURRICULA

#### Major in Accounting

The Accounting major requires:

1. Completion of related requirements,
2. Completion of core requirements
3. Completion of major requirements (24 cr.) and restricted electives (3 cr.), and
4. Completion of at least 64 non-business credits that may include 6 credits of economics.
5. MSU GPA of at least 2.25.

Substitutions and waivers of courses required for the B.S. Degree in Accounting must be approved in writing by the Accounting Department Chair.

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

#### STUDENT LEARNING OUTCOMES

Students will understand:

- fundamentals of the various branches of accounting: financial, managerial, tax, and auditing;
- economic, financial, social, legal, and cultural forces affecting the environment;
- how business organizations operate and how they are managed.

#### Communications and Technological Skills

Students will effectively:

- present information and views in writing;
- present information and views orally in a group setting;
- use communications technology;
- organize and present financial information;
- use technology to solve problems.

#### Professionalism

Students will:

- Identify ethical issues in a professional context;
- Demonstrate motivation and preparation to continue life-long learning;
- Work effectively in diverse groups;

- Think critically and deal adequately with uncertainty and ambiguity in professional tasks.

#### 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 ACCOUNTING (55 Credits)

##### Core Requirements (28 Credits)

- ACCT 205 Environment of Law (4)
- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- ACCT 315 Accounting Systems (3)
- BUS 498 Business Policy (3)
- FINC 340 Financial Management (3)
- MGMT 360 Principles of Management (3)
- MGMT 380 Operations Management (3)
- MKTG 310 Principles of Marketing (3)

##### Requirements (24 Credits)

- ACCT 306 Business Entities and Property (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)

- ACCT 307 Commercial Transactions (3)
- ACCT 320A Employment Law A (2)
- ACCT 320B Employment Law B (3)
- ACCT 320C Employment Law C (4)
- ACCT 420 International Accounting (3)
- ACCT 441 Individual Income Tax (3)
- 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)
- ACCT 495 Advanced Topics in Business Law (1-3)



**Related Requirements (31 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.

CSIS 103 Computer Applications for Bus. I (3)  
ECON 202 Principles of Economics I: Micro (3)  
ECON 204 Principles of Economics II: Macro (3)  
MATH 229 Fundamentals of Applied Math (3)  
MATH 234 Intro to Probability and Statistics (4)  
SPCH 100 Speech Communication (3)  
SOC 110 Introduction to Sociology (3)  
OR PSY 113 General Psychology (3)  
ENGL 286 Practical Writing (3)  
OR ENGL 387 Technical Report Writing (4)

**MINOR IN ACCOUNTING:**

**BUSINESS MAJOR (15 Credits)**

**Requirements (12 Credits)**

ACCT 306 Business Entities and Property (3)  
ACCT 330 Intermediate Accounting I (3)  
ACCT 331 Intermediate Accounting II (3)  
ACCT 340 Introduction to Taxation (3)

**Restricted Electives (3 Credits)**

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

ACCT 350 Cost Accounting (3)  
ACCT 430 Advanced Accounting (3)  
ACCT 431 Non-Profit Accounting (3)  
ACCT 460 Audit I (3)

**MINOR IN ACCOUNTING-**

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

**Requirements (25 Credits)**

ACCT 205 Environment of Law (4)  
ACCT 230 Principles of Accounting I (3)  
ACCT 231 Principles of Accounting II (3)  
ACCT 306 Business Entities and Property (3)  
ACCT 315 Accounting Systems (3)  
ACCT 330 Intermediate Accounting I (3)  
ACCT 331 Intermediate Accounting II (3)  
ACCT 340 Introduction to Taxation (3)

**Actuary Science**

*See Mathematics*

**Advertising**

*See Mass Communications*

**Agriculture**

Cooperative Degree Program  
Biology Department  
**King Hall 103, (218) 236-2572**  
**Chair:** Mary Shimabukuro

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

**American Studies**

Humanities and Multicultural Studies Department  
**MacLean 326, (218) 236-2196**  
**Chair:** Dieter Berninger  
**Program Coordinator:** D. C. Cole

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;
- demonstrate research skills and facility in interdisciplinary writing methods;
- critically evaluate the research projects of other majors.

**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.

**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 argument;
- 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) Requirements (22 Credits)**

In addition to the following courses, students must take one course in cultural anthropology, one course in physical anthropology, one course in archaeology, and one course in linguistics.

ANTH 110 Culture and Symbols (3)  
 ANTH 111 Human Evolution and Prehistory (3)  
 ANTH 445 Seminar in Anthropology (4)

**Electives (18 Credits)**

Students must take eighteen credits in Anthropology electives. With approval from a faculty advisor, students may apply up to four credits of Sociology courses to the major.

**EMPHASIS IN ARCHAEOLOGY (40 Credits) Requirements (32 Credits)**

In addition to the following courses, students must consult with the archaeology advisor and select one course in physical anthropology, one course in cultural anthropology, one archaeology area course, and one applied archaeology course of at least four credits.

ANTH 110 Culture and Symbols (3)  
 ANTH 111 Human Evolution and Prehistory (3)  
 ANTH 216 Prehistoric Cultures (3)  
 ANTH 217 Social Evolution (3)  
 ANTH 300 Archaeology (3)  
 ANTH 445 Seminar in Anthropology (4)

**Electives (8 Credits)**

Students must choose, in consultation with the archaeology advisor, eight elective credits in Anthropology.

**Anthropology**

Anthropology and Earth Science Department  
 Lommen 102, (218) 236-2035

**Chair:** Michael Michlovic

**Faculty:** Russell Colson, Rinita Dalan, Roger Richman, Bruce Roberts, Donna Rosh

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 Moorhead State University, the major includes an introduction to the four fields of anthropology —cultural anthropology, archaeology, biological anthropology, and linguistics. The academic focus is in cultural anthropology and archeology. The major includes a traditional track and a formal emphasis in archaeology for those wishing to focus on the study of ancient cultures.

**MINOR IN ANTHROPOLOGY (28 Credits)****Requirements (6 Credits)**

ANTH 110 Culture and Symbols (3)  
ANTH 111 Human Evolution and Prehistory (3)

**Electives (22 Credits)**

Students, in consultation with a faculty advisor, must take twenty-two credits of Anthropology electives. At least eight credits must be Anthropology courses at the 300 level or above.

**EARTH SCIENCE MINOR (21 Credits)****Requirements (15 Credits)**

A minor in Earth Science consists of 7 courses. Five of these courses (15 credits) must be in Earth Science. They include the courses listed below, and one course in Earth Science at the 200 level or above.

GEOG 110 Introductory Physical Geography (3)  
GEOL 115 Physical Geology (4)  
GEOL 116 Historical Geology (2)  
GEOL 117 Water, Land, and People (3)

**Restricted Electives (6 Credits)**

Two additional courses must be taken from among approved courses in Anthropology, Astronomy, Biology, Chemistry, Geography, Geology, Physics or Soil Science.

See the program director for a list of the approved courses.

**MINOR IN GEOGRAPHY (21 Credits)****Requirements (15 Credits)**

GEOG 110 Introductory Physical Geography (3)  
GEOG 111 World Regional Geography (3)  
GEOG 220 Economic Geography (3)  
GEOG 225 Conservation (3)  
GEOG 310 United States and Canada (3)

**Restricted Electives (6 Credits)**

One course in Regional Geography and one course in Systematic Geography.

**Architecture**

Cooperative Degree Program  
Technology Department

**Hagen 107, (218) 236-2480**

**Chair:** Scott Seltveit

**Program Coordinator:** Ronald Williams

The Pre-architecture program at Moorhead State University is a cooperative program with the Department of Architecture at North Dakota State University. Students enroll in their fundamental classes – English, math, art, and the social sciences at MSU. Through the Tri-College University, they take their Architecture courses at NDSU while maintaining their enrollment at MSU. At the end of their second year, the students transfer to NDSU to complete the architecture program.

The architecture program at NDSU is designed to be a five-year program. Program advisors will work closely with students to ensure satisfactory transfer of credits and timely completion of the program.

**CURRICULUM IN PRE-ARCHITECTURE (64 Credits)****Requirements (35 Credits)**

ANTH 110 Culture and Symbols (3)  
ART 101 Basic Drawing I (4)  
ENGL 101 Composition and Literature I (4)  
ENGL 102 Composition and Literature II (4)  
MATH 142 Pre-Calculus (4)  
MATH 143 Trigonometry (3)  
PSY 113 General Psychology (3)  
SOC 110 Introduction to Sociology (3)  
TECH 116 Computer-Aided Drafting (2)  
TECH 216 3D CAD (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.

**Art**

Art Department

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

**Chair:** Allen Sheets

**Faculty:** Anna Arnar, Deborah Mae Broad, Donald Clark, Kathleen Enz Finken, Zhimin Guan, Lila Hauge-Stoffel, Martin Meersman, Carl Oltvedt, Will Shynkaruk

**EMPHASIS AREAS****Art History**

The Bachelor of Arts degree with an emphasis in art history is offered for students whose principal interest is not in studio production, but museum work, teaching or other fields related to the visual arts. Course requirements are designed to familiarize students with the major fields of Western and Non-Western art history, and the history of architecture. Requirements include the survey of the history of art and eight upper-level art history courses, including one in the history of architecture. Additional classes in studio art and foreign languages, and a senior research project with a public presentation, are required for graduation.

**Ceramics**

Choices include all hand-building techniques, wheel-thrown stoneware, porcelain, special clays and glazes, glaze chemistry, and kiln history, design and operation as well as arranged projects of the student's own choosing. Internships are encouraged.

**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 aided design processes are utilized for in-depth studio investigations into the various conceptual and technical applications toward effective visual communication. Investigations deal with one or more of the following: symbols, typography, diagrams, systems, 3D, visual concepts, and multimedia. Projects may include logos, brochures, CD covers, posters, magazine layout, packaging, annual reports, and many more issues dealing with visual communication and society. Internships are 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**

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

**Pictorial Illustration**

Utilizes a broad range of disciplines in the Department of Art to offer students a program integrating the concepts of narrative and visual form. The program is designed to explore development in various media with conceptual growth in the fourth and fifth year. Topics covered include: editorial, book, children's books, advertising, and scientific illustration.

**Printmaking**

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

**Sculpture**

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

**Art Education**

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

**LEVELS OF STUDY****Foundation Studies**

First year students who intend to major in art are introduced to the basic theories, skills and working concepts of art through a series of drawing, design and art theory classes. These are Basic Drawing I, II and Foundation Design I, II.

**150 series**

Introduction to all major areas with focus on media and concept. May be taken after 12 credits or consent of instructor.

**200 series**

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

**300 series**

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

**400 series**

Further development of conceptual and formal qualities of art work in selected media. Emphasis on conclusive visual unity and presentation of individual projects. Internships and field experiences. May be taken after corresponding 300 level courses.

**450 series**

In-depth problem analysis and conceptual refinement of projects. Emphasis on professional presentation or exhibitions in preparation for further career development either in formal setting or in the field. May be taken after 63 art credits and acceptance in the B.F.A. program.

**Statement on Credits**

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

**Annual Evaluation**

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

**Requirement for Student Senior Exhibition**

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

**ART CURRICULA**

The Department of Art offers the following degree programs:

**B.A.**

The Bachelor of Arts Degree with the major in Art offers the following areas of study: Painting, Sculpture, Printmaking, Photography, Ceramics, Drawing, Art History or Graphic Design (4 years, 63 art credits, total 128 credits, senior exhibition required or lecture-presentation required.)

**B.S.**

The Bachelor of Science Degree with the major in Art Education offers areas of emphasis: Painting, Sculpture, Printmaking, Photograph, Ceramics, Drawing, Art History or Graphic Design (4 years, 63 art credits, total 128 credits, student teaching and senior exhibition required).

**B.F.A.**

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

Of the 156 total B.F.A. degree credits, 91 art credits are required in this five year program.

**STUDENT LEARNING OUTCOMES:**

Students are expected to demonstrate or display:

- comprehension of form/elements of art and the principles of design;
- creativity and originality;
- appropriate choice of media relative to concepts in art and design;
- skill, sensitivity and consistency of technique;
- an expressive quality to their art or design;
- representative skill, if appropriate;
- skill in verbal communication;
- skill in presentation.

**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 ART (63 Credits)****Requirements (28 Credits)**

Students may earn the B.A. Degree in Art in the following emphases: Art History, Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, or Sculpture. Students should consult closely with their academic advisor as they select courses from the "Restricted Electives" and "Electives" sections of the major.

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)

**Restricted Electives (15 Credits)**

Students must take three courses chosen from ART 130-162. Both two- and three-dimensional courses must be included. Students must also take one Art History course at the 300 level or above.

**Electives (20 Credits)**

Students must take four credits of 200 level studio courses, eight credits of 300 level studio courses, and eight credits of 400 level studio courses.

**EMPHASIS IN ART HISTORY (55 Credits)****Requirements (15 Credits)**

ART 233 History of Art I: Prehistory through the Middle Ages (4)

ART 234 History of Art II: Renaissance through Modern (4)

ART 433 Modern Architecture (3)

ART 450 Contemporary Art, Design, and Theory (4)

**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 courses at the 100 level or above.

**Electives (4 Credits)**

Students may arrange with Art Department faculty to study topics of particular interest. From one to six credits of ART 497 may be applied to reach the major requirement of 55 credits.

**MINOR IN ART (31 Credits)****Restricted Electives (15 Credits)**

Students must take eight credits chosen from the courses listed below. Students must also earn at least seven credits in Art History electives and/or Art Appreciation electives.

ART 101 Basic Drawing I (4)

ART 102 Basic Drawing II (4)

ART 125 Foundation Design I (4)

ART 126 Foundation Design II (4)

**Electives (16 Credits)**

Students must take eight credits of Art studio courses chosen from ART 130-162. Students must also take eight elective credits in studio courses listed at the 200 level or above.

**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.

**B.F.A. DEGREE IN ART (91 Credits)****Requirements (31 Credits)**

This is a five year program and requires a total of 156 credits. Ninety-one (91) credits are specified as follows:

Students may earn the B.F.A. Degree in Art in the following emphases: Ceramics, Drawing, Graphic Design, Painting, Photography, Pictorial Illustration, Printmaking, or Sculpture. Students should consult closely with their academic advisor as they select courses from the "Restricted Electives" and "Electives" section of the major.

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)

**Restricted Electives (40 Credits)**

Students must take twelve credits selected from ART 130-162. Both two- and three-dimensional courses must be included. Students must complete two courses in Art History at the 300 level or above. Students must earn twenty-one credits in ART 451 and 452. Students in the Graphic Design emphasis must earn eleven credits in ART 451 or 452 and must earn ten credits in ART 469.

**Electives (20 Credits)**

Students must take four credits of 200 level studio, eight credits of 300 level studio, and eight credits of 400 level studio instruction.

**B.S. DEGREE IN ART: TEACHING (89 Credits)****Requirements (32 Credits)**

Students may earn the B.S. Degree in Art in the following emphases: Art History, Ceramics, Drawing, Graphic Design, Painting, Photography, Printmaking, or Sculpture. Students should consult closely with their academic advisor as they select courses from the "Restricted Electives" and the "Electives" sections of the major. Students are required to earn at least two credits in ART 469. Additionally, students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

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 325 Art Methods K-12 (3)

ART 350 Methods and Materials: Art for the Elementary Classroom (3)

ART 469 Student Internship (3)

**Restricted Electives (12 Credits)**

Students must take introductory courses in three mediums and earn at least twelve credits in ART 130-162.

**Electives (12 Credits)**

Students must earn twelve credits in studio courses. At least eight credits must be earned in 200 level studio and at least four credits must be earned in 300 level studio instruction.

**MINOR IN ART: TEACHING (33 Credits)****Requirements (6 Credits)**

This minor can only be earned in conjunction with at least one teaching major.

ART 325 Art Methods K-12 (3)

ART 350 Methods and Materials: Art for the Elementary Classroom (3)

**Restricted Electives (20 Credits)**

Students must earn eight credits from the courses listed below. Students must also earn twelve credits in Art studio courses chosen from ART 130-162.

ART 101 Basic Drawing I (4)

ART 102 Basic Drawing II (4)

ART 125 Foundation Design I (4)

ART 126 Foundation Design II (4)

**Electives (7 Credits)**

Students must earn at least seven credits in Art History and/or Art Appreciation.

**Asian Studies**

See East Asian Studies under Languages

**Astronomy**

See Physics-Astronomy

**Athletic Training**

Department of Health and Physical Education  
**Nemzek 125 (218) 236-3099 or 236-2626**

**Faculty:** Dawn Hammerschmidt, Coordinator;  
Andrea Scott, Keith Wiedrich

The Athletic Training major provides students with an in-depth study of athletic training including prevention, care, evaluation, treatment, and rehabilitation of athletic injuries. Students also will learn about health care administration and professional development pertaining to athletic training. In addition to the academic course work, the students are required to complete 1500 hours under the direct supervision of certified athletic trainers. The Athletic Training program prepares students to become eligible for the National Athletic Trainers' Association Board of Certification Examination, which is the entry-level credential needed to practice athletic training. Some states also require athletic trainers to be licensed or registered. 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 Admission Requirements**

To be admitted to the Athletic Training major, students must complete the following requirements:

1. be admitted to Moorhead State University;
2. submit an official transcript from high school (freshmen and/or MSU) or college/university (transfers);
3. completion of at least 75 hours of observation in the athletic training room setting;
4. submit a formal letter of application;
5. completion of application form;
6. provide three letters of recommendation;
7. completion of AT 120 (Introduction to Athletic Training) and AT 220 (Care and Prevention of Athletic Injuries) with a minimum grade of "B";

8. completion of BIOL104, Human Biology or BIOL 111, Cell Biology and CHEM 102, Survey of Basic Principles of Chemistry or CHEM 110, Fundamentals of Chemistry or CHEM 150, General Chemistry, with a minimum grade of "C"
9. a formal on-campus interview by a committee of 3-4 certified athletic trainers and one HPE faculty member who is not on the athletic training staff.

**UPPER LEVEL WRITING REQUIREMENT:**

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

**B.S. DEGREE IN ATHLETIC TRAINING (68 Credits) Requirements (49 Credits)**

Students are required to earn clinical hours, but there is no award of academic credit for the clinical hours served.

- AT 120 Introduction to Athletic Training (2)
- AT 220 Prevention and Care of Athletic Injuries (2)
- AT 320 Organization and Administration of Athletic Training (3)
- AT 321 Athletic Training Techniques (3)
- AT 322 Athletic Injury Assessment (3)
- AT 323 Athletic Training Modalities (3)
- AT 324 Athletic Injury Rehabilitation (2)
- AT 325 Athletic Training Practicum I (2)
- AT 326 Athletic Training Practicum II (2)
- AT 327 Athletic Training Practicum III (2)
- AT 420 Athletic Training Seminar (3)
- AT 425 Athletic Training Practicum IV (2)
- HLTH 110 Personal Health (3)
- HLTH 125 First Aid and CPR (2)
- HLTH 305 Introduction to Nutrition (3)
- PE 320 Anatomical Kinesiology (3)
- PE 321 Human Physiology (3)
- PE 421 Physiology of Exercise (3)
- PE 473 Exercise Testing and Interpretation (3)

**Related Requirements (13 Credits)**

Students must take either CHEM 110 or CHEM 150 and CHEM 155. Students should consult with their academic advisor prior to choosing the Chemistry sequence.

- BIOL 104 Human Biology (3)
- OR BIOL 111 Cell Biology (4)
- BIOL 236 Introduction to Microbiology (3)
- CHEM 110 Fundamentals of Chemistry (4)
- OR CHEM 150 General Chemistry I (3)
- AND CHEM 155 General Chemistry Laboratory (1)

**Electives (6 Credits)**

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

- CSIS 103 Computer Applications for Business I (3)
- ENGL 387 Technical Report Writing (4)
- PE 311 Motor Learning (2)
- PE 452 Adapted Physical Education (3)
- PE 474 Tests and Measurements in Physical Education (3)

**Athletics**

Department of Athletics  
Nemzek 134 (218) 299-2622

**Chair:** John Sterner

**Faculty:** Tammy Blake, Joe Fisher, Dan Lind, Ralph Michelli, Karla Nelson, Jean Roise, Michael Olson, John Woleske

The MSU athletics program is a charter member of the Northern Sun Intercollegiate Conference and is nationally affiliated with the NCAA as a Division II member. MSU 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. JV programs are also offered in football and women's basketball and volleyball. Although many MSU athletes are recruited, each program continues to encourage walk-on opportunities.

**Biology**

Biology Department  
King Hall 103, (218) 236-2572

**Chair:** Mary Shimabukuro

**Faculty:** Ellen Brisch, Chris Chastain, Richard Pemble, Donna Bruns Stockrahm, Mark Wallert, Robert Weibust, Kathryn Wise, Brian Wisenden

The department offers a Bachelor of Arts degree in Biology, Bachelor of Science degrees in Life Science (Teaching), Cytotechnology and Medical Technology, and a Biotechnology Emphasis that leads to a B.A. degree in Biology and Chemistry. Biology 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-physicians assistant, pre-wildlife management, pre-chiropractic, pre-mortuary science and pre-forestry. Minors in Biology, Botany and Zoology are designed to support other fields of study such as art, psychology, education, chemistry and certain business majors. Teaching licensures are available in Life Sciences (grades 7-12) and Middle School Science (grades 5-9). 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 Biology Department consult a member of the Biology 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 Department of Biology at Moorhead State University regardless of the number of transfer credits accepted toward the major.

#### 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 (68 Credits)

##### Requirements (25 Credits)

BIOL 111 Cell Biology (4)  
 BIOL 303 General Zoology (4)  
 BIOL 305 General Botany (4)  
 BIOL 341 Genetics (4)  
 BIOL 345 Principles of Ecology & Evolution (4)  
 BIOL 350 Microbiology (4)  
 BIOL 484 Biology Seminar (1)

##### Restricted Electives (3 Credits)

Students must take one course from those listed.

BIOL 347 Plant Physiology (3)  
 BIOL 349 Human Physiology (4)  
 BIOL 360 Cell and Vertebrate Systems Physiology (4)

##### Related Requirements (22 Credits)

In addition to the listed courses, students must complete six credits of mathematics selected from MATH 127 or above.

CHEM 155 General Chemistry Laboratory I (1)  
 CHEM 150 General Chemistry I (3)  
 CHEM 160 General Chemistry II (3)  
 CHEM 165 General Chemistry Laboratory II (1)  
 PHYS 111 Elementary Physics I (4)  
 PHYS 112 Elementary Physics II (4)

#### Electives (18 Credits)

Students are required to take six credits in biology courses, four credits of related field electives and eight credits of approved electives in additional biology or related field courses. Related field electives may be selected from approved courses in chemistry, mathematics, geology, physics, and computer science.

#### B.A. DEGREE: DOUBLE MAJOR IN BIOLOGY AND CHEMISTRY

The Biotechnology Emphasis is offered jointly by the Biology and Chemistry departments. Students may be advised by faculty from either department.

#### EMPHASIS IN BIOTECHNOLOGY (76 Credits)

##### Requirements (60 Credits)

BIOL 111 Cell Biology (4)  
 BIOL 341 Genetics (4)  
 BIOL 350 Microbiology (4)  
 BIOL 385 Molecular Biology (4)  
 BIOL 430 Immunology (2)  
 CHEM 150 General Chemistry I (3)  
 CHEM 155 General Chemistry Laboratory I (1)  
 CHEM 160 General Chemistry II (3)  
 CHEM 165 General Chemistry Laboratory II (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 380 Analytical Chemistry I (3)  
 CHEM 400 Biochemistry I (3)  
 CHEM 405 Biochemistry Laboratory I (1)  
 CHEM 410 Biochemistry II (3)  
 CHEM 415 Biochemistry Laboratory II (1)  
 BIOL 303 General Zoology (4)  
**AND** BIOL 360 Cell and Vertebrate Systems Physiology (4)  
**OR** BIOL 305 General Botany (4)  
**AND** BIOL 347 Plant Physiology (3)  
 BIOL 475 Biotechniques I (4)  
**OR** CHEM 475 Biotechniques I (4)  
 BIOL 476 Biotechniques II (4)  
**OR** CHEM 476 Biotechniques II (4)  
 BIOL 477 Biotechnology Seminar (1)  
**OR** CHEM 477 Biotechnology Seminar (1)

##### Related Requirements (16 Credits)

Students must choose a Physics sequence (PHYS 111, 112 or PHYS 200, 201) and a Mathematics sequence (MATH 234, 261 or MATH 261, 262).  
 PHYS 111 Elementary Physics I (4)  
**AND** PHYS 112 Elementary Physics II (4)  
**OR** PHYS 200 General Physics I (5)  
**AND** PHYS 201 General Physics II (5)  
 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 LIFE SCIENCE:****TEACHING (101 Credits)****Requirements (25 Credits)**

Students must fulfill all teacher licensure requirements which include a three credit teaching methods course.

**These licensure requirements are in effect for students who will seek licensure prior to September 1, 2001. Students who will seek licensure after that date should consult closely with the Biology department chairperson.**

- BIOL 111 Cell Biology (4)
- BIOL 303 General Zoology (4)
- BIOL 305 General Botany (4)
- BIOL 341 Genetics (4)
- BIOL 345 Principles of Ecology & Evolution (4)
- BIOL 350 Microbiology (4)
- BIOL 484 Biology Seminar (1)

**Restricted Electives (9 Credits)**

Students must take one course chosen from those listed below. In addition, students must take six approved Biology credits at the 300 and 400 level.

- BIOL 347 Plant Physiology (3)
- BIOL 349 Human Physiology (4)
- BIOL 360 Cell and Vertebrate Systems Physiology (4)

**Related Requirements (34 Credits)**

Students must complete six credits in mathematics selected from MATH 127 or above. In addition, students must take three credits in elective credits from approved courses in Biology, Chemistry, Geology, Physics, Mathematics, or Computer Science.

- CHEM 150 General Chemistry I (3)
- CHEM 155 General Chemistry Laboratory I (1)
- CHEM 160 General Chemistry II (3)
- CHEM 165 General Chemistry Laboratory II (1)
- GEOL 115 Physical Geology (4)
- GEOL 116 Historical Geology (2)
- GEOL 260 Planetary Science (3)
- PHYS 111 Elementary Physics I (4)
- PHYS 112 Elementary Physics II (4)

**LICENSURE IN LIFE SCIENCE (81 Credits)****Requirements (25 Credits)**

Students who seek this licensure must earn a baccalaureate degree and must complete all teacher licensure requirements which include a three credit teaching methods course. The teacher licensure requirements will add thirty-three credits to the major total. **The licensure requirements are in effect for students who will seek licensure prior to September 1, 2001. Students who will seek licensure after that date should consult closely with the Biology department chairperson.**

- BIOL 111 Cell Biology (4)
- BIOL 303 General Zoology (4)
- BIOL 305 General Botany (4)
- BIOL 341 Genetics (4)
- BIOL 345 Principles of Ecology and Evolution (4)
- BIOL 350 Microbiology (4)
- BIOL 484 Biology Seminar (1)

**Restricted Electives (3 Credits)**

Students must take one course from those listed.

- BIOL 347 Plant Physiology (3)
- BIOL 349 Human Physiology (4)
- BIOL 360 Cell and Vertebrate Systems Physiology (4)

**Electives (5 Credits)**

Students must earn a minimum of five credits in Biology electives.

**Related Requirements (15 Credits)**

- CHEM 150 General Chemistry I (3)
- CHEM 155 General Chemistry Laboratory I (1)
- GEOL 115 Physical Geology (4)
- PHYS 111 Elementary Physics I (4)
- AST 102 Solar System Astronomy (3)
- OR AST 104 Stellar Astronomy (3)
- OR GEOG 241 Elementary Meteorology (3)

**LICENSURE IN MIDDLE SCHOOL****SCIENCE (81 Credits)****Requirements (43 Credits)**

Students who seek this licensure must earn a baccalaureate degree and must complete all teacher licensure requirements which will add thirty-three credits to the major total. **The licensure requirements are in effect for students who will seek licensure prior to September 1, 2001. Students who will seek licensure after that date should consult closely with the Biology department chairperson.**

- BIOL 111 Cell Biology (4)
- BIOL 303 General Zoology (4)
- BIOL 305 General Botany (4)
- CHEM 150 General Chemistry I (3)
- CHEM 155 General Chemistry Laboratory I (1)
- CHEM 160 General Chemistry II (3)
- CHEM 165 General Chemistry Laboratory II (1)
- GEOL 115 Physical Geology (4)
- GEOL 116 Historical Geology (2)
- GEOL 117 Water, Land, and People (3)
- GEOL 241 Elementary Meteorology (3)
- PHYS 111 Elementary Physics I (4)
- PHYS 112 Elementary Physics II (4)
- AST 102 Solar System Astronomy (3)
- OR AST 104 Stellar Astronomy (3)
- OR AST 260 Planetary Science (3)

**Electives (5 Credits)**

Students must earn at least four credits of biology electives and at least one credit of an earth science elective.

**B.S. DEGREE IN  
MEDICAL TECHNOLOGY (87 Credits)**

**Requirements (62 Credits)**

Biology 460 may be taken for 8 or 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 303 General Zoology (4)  
BIOL 341 Genetics (4)  
BIOL 349 Human Physiology (4)  
BIOL 350 Microbiology (4)  
BIOL 430 Immunology (2)  
BIOL 435 Immunology Laboratory (1)  
BIOL 438 Pathogenic Microbiology (3)  
BIOL 460 Medical Technology Clinical Education (8-12)

**Restricted Electives (3 Credits)**

A three credit course in Mathematics at the level of Math 127 or above is required.

**Related Requirements (22 Credits)**

In addition to the Chemistry courses listed below, students must choose an additional four credits of approved electives in Chemistry or Physics.

CHEM 150 General Chemistry I (3)  
CHEM 155 General Chemistry Laboratory I (1)  
CHEM 160 General Chemistry II (3)  
CHEM 165 General Chemistry Laboratory II (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 400 Biochemistry I (3)

**Recommended (0 Credits)**

BIOL 323 Human Anatomy (4)  
BIOL 365 Developmental Biology (3)  
BIOL 385 Molecular Biology (4)  
CHEM 365 Organic Chemistry Laboratory II (1)  
CHEM 380 Analytical Chemistry I (3)  
CHEM 405 Biochemistry Laboratory I (1)  
CHEM 410 Biochemistry II (3)  
CHEM 415 Biochemistry Laboratory II (1)  
PHYS 111 Elementary Physics I (4)

**B.S. DEGREE IN CYTOTECHNOLOGY (71 Credits)**

**Requirements (60 Credits)**

Biology 465 may be taken for eight or twelve credits and must be repeated to a total of thirty-six credits over a one year period at an affiliated School of Cytotechnology program.

BIOL 111 Cell Biology (4)  
BIOL 303 General Zoology (4)  
BIOL 323 Human Anatomy (4)  
BIOL 341 Genetics (4)  
BIOL 349 Human Physiology (4)  
BIOL 350 Microbiology (4)  
BIOL 465 Cytotechnology Clinical Education

**Restricted Electives (3 Credits)**

A three credit course in Mathematics at the level of Math 127 or above is required.

**Related Requirements (8 Credits)**

CHEM 150 General Chemistry I (3)  
CHEM 155 General Chemistry Laboratory I (1)  
CHEM 160 General Chemistry II (3)  
CHEM 165 General Chemistry Laboratory II (1)

**Recommended (0 Credits)**

In addition to the listed courses, a course in statistics is strongly recommended.

BIOL 365 Developmental Biology (3)  
BIOL 385 Molecular Biology (4)  
BIOL 430 Immunology (2)  
BIOL 435 Immunology Laboratory (1)  
CHEM 180 Introduction to Organic and Biochemistry (4)  
CHEM 185 Introduction to Organic and Biochemistry Lab (1)  
CHEM 400 Biochemistry I (3)  
PHYS 111 Elementary Physics I (4)

**MINOR IN BIOLOGY (21 Credits)**

**Requirements (12 Credits)**

BIOL 111 Cell Biology (4)  
BIOL 303 General Zoology (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 ZOOLOGY (20 Credits)**

**Requirements (8 Credits)**

BIOL 111 Cell Biology (4)  
BIOL 303 General Zoology (4)

**Electives (12 Credits)**

Students must earn twelve credits of approved electives in Biology and Zoology courses.

## Business Administration

Business Administration Department  
**Center for Business 207A, (218) 236-4064**

**Chair:** A. Clyde Vollmers

**Faculty:** M. Wayne Alexander, Manoj Athavale, Peter Geib, Rajiv Kalra, Jerome Kuperman, Alan MacDonald, Molly Moore, Thomas Pearce, Richard Peschke, Sam Roy, James Swenson, Marsha Weber

### AREAS OF STUDY

Business Administration, Finance, International Business, Management, Marketing.

Registration in 300-level and 400-level accounting and business courses generally requires that students meet the following criteria:

1. Have an overall MSU GPA of 2.25. Students without an established MSU GPA will be required to secure an electronic override to permit enrollment. Students with an MSU GPA of less than 2.25 will not be given override permission to enroll.
2. Have completed a predetermined number of college level credits. The number varies by course, but is generally at least 44 credits for 300-level courses and 80 semester credits for 400-level courses. Bus 498, Business Policy, requires 96 completed credits before enrollment is permitted.
3. Will have completed the following pre-business courses or their equivalents prior to taking 300 and 400-level accounting and business courses.  
 Accounting 230, 231  
 Economics 202, 204  
 English 101, 102  
 Mathematics 129, 134
4. All business students, both majors and minors, must meet all course prerequisites listed in the Bulletin. It is each student's responsibility to know what the prerequisites are.

An interdepartmental committee has been established to consider appeals to any requirements or procedures.

### Graduation Policies for Business Majors and Minors

All business majors must have a 2.25 overall GPA to graduate. This GPA is based solely on courses taken at Moorhead State. All business minors must have a 2.00 GPA in courses comprising the minor.

### Baccalaureate Degree Programs

B.S. Degrees in Business Administration, Finance, International Business, Management and Marketing are offered. The following program descriptions are subject to change. See Departmental 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 8 credits of economics can be used to meet this requirement.

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

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

### STUDENT LEARNING OUTCOMES:

Students are expected to:

- exhibit basic knowledge of the principles and processes of business;
- communicate effectively, both in writing and orally;
- Integrate basic concepts between courses within their major and across disciplines;
- work together effectively in teams or project groups;
- utilize the tools and technologies appropriate to their discipline;
- understand the global and culturally diverse nature of business.

### 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.

### BUSINESS CORE REQUIREMENTS (63 Credits) Core Requirements (28 Credits)

The core courses listed below are required of all students who major in Business Administration, Finance, International Business, Management, or Marketing.

- ACCT 205 Environment of Law (4)
- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- BUS 498 Business Policy (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 (35 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.

- CSIS 103 Computer Applications for Bus I (3)
- ECON 202 Principles of Economics I: Micro (3)
- ECON 204 Principles of Economics II: Macro (3)
- ENGL 387 Technical Report Writing (4)
- MATH 229 Fundamentals of Applied Math (3)
- MATH 234 Intro to Probability and Statistics (4)
- SPCH 100 Speech Communication (3)
- SOC 110 Introduction to Sociology (3)
- OR PSY 113 General Psychology (3)
- SOC 205 Social Psychology (3)
- OR PSY 120 Social Behavior (3)

**B.S. DEGREE IN****BUSINESS ADMINISTRATION (87 Credits)****Core Requirements (63 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 421, MGMT 424, MKTG 422, MKTG 419, or ECON 370.

- MGMT 420 Organizational Theory (3)
- OR MGMT 451 Organizational Behavior (3)
- FINC 360 Principles of Investment (3)
- OR FINC 441 Advanced Financial Management (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. 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 of Business Administration courses above the major requirements in each of the business degree programs. Courses which satisfy major requirements cannot be used to satisfy minor requirements. The courses must be chosen from at least 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 (87 Credits)****Core Requirements (63 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 any three of the following listed 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 & 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 degree programs.

**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 (3)40 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.

**B.S. DEGREE IN MANAGEMENT (87 Credits)**  
**Core Requirements (63 Credits)**

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

**Requirements (18 Credits)**

MGMT 420 Organizational Theory (3)  
 MGMT 421 Decision Analysis (3)  
 MGMT 424 Management Science (3)  
 MGMT 440 Personnel Management (3)  
 MGMT 451 Organizational Behavior (3)  
 MGMT 458 International Management (3)

**Restricted Electives (6 Credits)**

Students may choose six 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 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 of Management courses above the management requirements in each of the business degree 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 (87 Credits)**  
**Core Requirements (63 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 twelve credits in elective courses from the following list. Student 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 of Marketing courses above the marketing requirements in each of the business degree 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 (25 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.

**B.S. DEGREE IN  
INTERNATIONAL BUSINESS (100 Credits)  
Core Requirements (63 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 Culture and Symbols (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)  
GEOG 110 Introductory Physical Geography (3)  
GEOG 111 World Regional Geography (3)  
HIST 357 United States Foreign Relations (4)  
POL 160 International Relations (3)  
POL 290 Introduction to Topics in Political Science (3)  
POL 360 American Foreign Policy (3)  
SOC 215 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 of management courses. Courses which satisfy major requirements cannot be used to satisfy requirements for the International Business Minor. 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)

## Chemistry

Chemistry Department  
Hagen 411, (218) 236-2136

**Chair:** Abbas Pezeshk

**Faculty:** Shawn Dunkirk, Gary Edvenson, Craig Jasperse, Asoka Marasinghe, Joseph Provost

Moorhead State'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: a) B.S. degree in chemistry (ACS approved); b) B.A. degree in chemistry; c) B.A. dual cooperative degree in chemistry and engineering; d) B.A. degree in chemistry with emphasis in biotechnology; e) B.S. degree in physical science teaching.

- The B.S. degree in chemistry is a rigorous four-year course of study designed for those students who plan on graduate programs in chemistry and its related fields, a career in chemical industries, or chemical professions.

- The B.A. degree in chemistry is designed to provide students with the basic chemistry curriculum with additional courses in biology. This program is specifically designed for students entering professional schools or other careers where a strong chemistry background is essential.
- The Department also offers a five-year, dual B.S. degree program in chemistry and chemical engineering in cooperation with the University of Minnesota and/or the University of North Dakota.
- The B.A. degree in chemistry with emphasis in biotechnology is a degree that combines studies in both biology and chemistry. The Biotechnology emphasis is designed to teach advanced laboratory skills in the major areas of 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 B.S. degree in chemistry or physical science teaching. This major is required for certification to teach chemistry in Minnesota high schools. Students completing this major are certified also 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 professional (teacher) education.  
**Students who will graduate prior to September 1, 2001 will be licensed in Physical Science and those after that date will be licensed in Chemistry Teaching. This program has recently been revised to reflect the new Minnesota Board of Teaching licensure rules.**

**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;
- 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 (66 Credits)****Requirements (45 Credits)**

Students must earn at least three credits in CHEM 497.

- CHEM 150 General Chemistry I (3)
- CHEM 155 General Chemistry Laboratory I (1)
- CHEM 160 General Chemistry II (3)
- CHEM 165 General Chemistry Laboratory II (1)
- 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 (3)
- 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)

**Restricted Electives (3 Credits)**

Students must earn an additional three credits in Chemistry electives or in related subject areas.

**Related Requirements (18 Credits)**

- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- PHYS 200 General Physics I (5)
- PHYS 201 General Physics II (5)

**B.A. DEGREE IN CHEMISTRY (68 Credits)****Requirements (33 Credits)**

Students must earn at least three credits in CHEM 497.

- CHEM 150 General Chemistry I (3)
- CHEM 155 General Chemistry Laboratory I (1)
- CHEM 160 General Chemistry II (3)
- CHEM 165 General Chemistry Laboratory II (1)
- 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 (3)
- CHEM 400 Biochemistry I (3)
- CHEM 405 Biochemistry Laboratory I (1)
- CHEM 450 Physical Chemistry I (3)
- CHEM 455 Physical Chemistry Laboratory I (1)
- CHEM 497 Undergraduate Research (1-3)

**Restricted Electives (7 Credits)**

Students must earn seven credits in Chemistry electives or in related subject areas.



**Related Requirements (28 Credits)**

BIOL 111 Cell Biology (4)  
 BIOL 341 Genetics (4)  
 BIOL 349 Human Physiology (4)  
 MATH 261 Calculus I (4)  
 PHYS 111 Elementary Physics I (4)  
 PHYS 112 Elementary Physics II (4)  
 MATH 262 Calculus II (4)  
 OR MATH 234 Introduction to Probability and Statistics (4)

**Recommended (0 Credits)**

This course is recommended, but not required.  
 ENGL 387 Technical Report Writing (4)

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

CHEM 150 General Chemistry I (3)  
 CHEM 155 General Chemistry Laboratory I (1)  
 CHEM 160 General Chemistry II (3)  
 CHEM 165 General Chemistry Laboratory II (1)  
 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.

**B.A. DEGREE: DOUBLE MAJOR IN BIOLOGY AND CHEMISTRY**

The Biotechnology Emphasis is offered jointly by the Biology and Chemistry departments. Students may be advised by faculty from either department.

**EMPHASIS IN BIOTECHNOLOGY (76 Credits)****Requirements (60 Credits)**

BIOL 111 Cell Biology (4)  
 BIOL 341 Genetics (4)  
 BIOL 350 Microbiology (4)  
 BIOL 385 Molecular Biology (4)  
 BIOL 430 Immunology (2)  
 CHEM 150 General Chemistry I (3)  
 CHEM 155 General Chemistry Laboratory I (1)  
 CHEM 160 General Chemistry II (3)  
 CHEM 165 General Chemistry Laboratory II (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 380 Analytical Chemistry I (3)  
 CHEM 400 Biochemistry I (3)  
 CHEM 405 Biochemistry Laboratory I (1)  
 CHEM 410 Biochemistry II (3)  
 CHEM 415 Biochemistry Laboratory II (1)  
 BIOL 303 General Zoology (4)  
 AND BIOL 360 Cell and Vertebrate Systems Physiology (4)  
 OR BIOL 305 General Botany (4)  
 AND BIOL 347 Plant Physiology (3)

BIOL 475 Biotechniques I (4)  
 OR CHEM 475 Biotechniques I (4)  
 BIOL 476 Biotechniques II (4)  
 OR CHEM 476 Biotechniques II (4)  
 BIOL 477 Biotechnology Seminar (1)  
 OR CHEM 477 Biotechnology Seminar (1)

**Related Requirements (16 Credits)**

Students must choose a Physics sequence (PHYS 111,112 or PHYS 200,201) and a Mathematics sequence (MATH 234, 261 or MATH 261,262).

PHYS 111 Elementary Physics I (4)  
 AND PHYS 112 Elementary Physics II (4)  
 OR PHYS 200 General Physics I (5)  
 AND PHYS 201 General Physics II (5)  
 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 (29 Credits)**

The Chemistry teaching degree is designed for students who will seek licensure after September 1, 2001. Students who will graduate prior to September 1, 2001 will be licensed in Physical Science and should check with the department education advisor to verify requirements. 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 150 General Chemistry I (3)  
 CHEM 155 General Chemistry Laboratory I (1)  
 CHEM 160 General Chemistry II (3)  
 CHEM 165 General Chemistry Laboratory II (1)  
 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 (3)  
 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 (10 Credits)**

Students who complete this major must earn a Physics minor. This requires that students complete the Physics courses listed below.

PHYS 111 Elementary Physics I (4)  
 OR PHYS 200 General Physics I (5)  
 PHYS 112 Elementary Physics II (4)  
 OR PHYS 201 General Physics II (5)

**Related Requirements (29 Credits)**

BIOL 111 Cell Biology (4)

BIOL 303 General Zoology (4)

BIOL 305 General Botany (4)

GEOL 115 Physical Geology (4)

GEOL 116 Historical Geology (2)

GEOL 260 Planetary Science (3)

MATH 261 Calculus I (4)

MATH 262 Calculus II (4)

OR MATH 234 Introduction to Probability and  
Statistics (4)**Chinese***See Languages***Classics***See the Dean of Arts and Humanities*

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

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

**Communications**

*See Mass Communications, Speech Communication, Speech/Language/Hearing Sciences, or Technology Departments for degree programs.*

**Computer Science and  
Information Systems**

Computer Science and Information Systems Department  
**Bridges 160, (218) 236-2299**

**Chair:** John C. Gaffrey**Faculty:** Daniel Brekke, Curtis Bring, Rhonda Ficek,  
Kemal Koymen, Benjamin Lin, Richard Walker

The Department of Computer Science and Information Systems (CSIS) offers programs of study in three areas: Computer Science, Computer Information Systems, and Management Information Systems (MIS). 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. The MIS program is described in the Management Information Systems section of the catalogue.

**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 and;
- 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 and;
- appropriate use of visual aids in an oral presentation.

understanding of 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 (83 Credits)****Requirements (34 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 430 Operating Systems (4)
- CSIS 435 Compilers I (4)
- CSIS 440 Computer Networks Software Concepts (3)
- 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 three credits of CSIS 469 to the major.

- CSIS 251 Assembly Language Programming (3)
- CSIS 255 Introduction to C/UNIX (3)
- CSIS 257 Object Oriented Programming (3)
- CSIS 290 Topics in Programming Languages (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 349 Networks and Data Communications (3)
- CSIS 355 Systems Software (3)
- CSIS 358 Introduction to Parallel Computing (3)
- CSIS 370 Social, Ethical, and Professional Issues in Computing (2)
- 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 (3)
- CSIS 490 Topics in Computer Science (1-3)
- CSIS 497 Independent Study (1-3)

**Related Requirements (34 Credits)**

In addition to the courses listed, students must complete one of the following sequences: (BIOL 111 and either BIOL 114 or 124 or BIOL 341) or (CHEM 150, 155, 160, 165), or (PHYS 111-112) or (PHYS 200-201), and two courses from scientific and/or quantitative areas.

Scientific courses may be chosen from Astronomy, Biology, Chemistry, CSIS 130, CSIS 156 and any CSIS course at or above the 200 level, Engineering, Geology, Geography, Technology, Mathematics at 300 level or above, or Physics at 200 level or above. Quantitative courses may be chosen from ACCT 230, ACCT 231, ACCT 330, ACCT 331, ACCT 350, ACCT 351, PHIL 110, PHIL 240, ECON 202, ECON 204, ECON 302, ECON 304, ECON 320, MGMT 421, or MGMT 424.

- 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)
- SPCH 100 Speech Communication (3)

**MINOR IN COMPUTER SCIENCE (24 Credits)****Requirements (8 Credits)**

- CSIS 150 Introduction to Computers and Programming I (4)
- CSIS 151 Introduction to Computers and Programming II (4)

**Electives (16 Credits)**

Sixteen 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 (3)
- CSIS 250 File Design, Organization and Processing with COBOL (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 444 Database Concepts, Design and Implementation (4)
- CSIS 446 Decision Support Systems (3)
- CSIS 449 Systems Analysis and Design Field Project (3)
- OR** CSIS 469 Internship (3)

**Electives (9 Credits)**

- CSIS 103 Computer Applications for Business I (3)
- CSIS 104 Computer Applications for Business II (3)
- CSIS 251 Assembly Language Programming (3)
- CSIS 255 Introduction to C/UNIX (3)
- CSIS 257 Object Oriented Programming (3)
- CSIS 290 Topics in Programming Languages (1-3)
- CSIS 335 Graphical User Interface Programming (3)
- CSIS 340 Software Engineering (4)
- CSIS 355 Systems Software (3)
- CSIS 370 Social, Ethical, and Professional Issues in Computing (2)
- CSIS 430 Operating Systems (4)
- CSIS 435 Compilers I (4)
- CSIS 440 Computer Networks Software Concepts (3)
- CSIS 443 Artificial Intelligence (3)
- CSIS 445 Graphics (3)

CSIS 450 Programming Languages (3)  
 CSIS 469 Internship (3)  
 CSIS 490 Topics in Computer Science (1-3)  
 CSIS 497 Independent Study (1-3)

**Related Requirements (32 Credits)**

ACCT 230 Principles of Accounting I (3)  
 ACCT 231 Principles of Accounting II (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 424 Management Science (3)  
 SPCH 100 Speech Communication (3)

**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 (3)  
 CSIS 250 File Design, Organization and Processing  
 with COBOL (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**

*See Technology*

**Criminal Justice**

Sociology and Criminal Justice Department  
**Lommen 102, (218) 236-2045**

**Chair:** Joel Charon

**Program Coordinator:** Mark Hansel

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 social science. 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;
- understand of social research, including the ability to apply research findings to criminal justice issues;
- ability to organize ideas, evidence, information and to construct sound argument;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning criminal justice issues;
- ability to identify and use community 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.A. DEGREE IN CRIMINAL JUSTICE (44 Credits)**

**Core Requirements (16 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 232 Criminal Law (3)

CJ 300 Criminology (3)

CJ 309 Law and Society (4)

CJ 400 Seminar in Criminal Justice (2)

**Restricted Electives (13 Credits)**

Students must choose at least thirteen credits from the following list of courses. Of the thirteen credits, at least eight must be taken at the upper division (300 or 400) level.

POL 230 Public Administration (3)

POL 230 Introduction to the Law (3)

POL 330 The Judicial System (3)

POL 430 Topics in Constitutional Law

PSY 261 Personality (3)

PSY 463 Abnormal Psychology (3)

SOC 112 Social Deviance (2)

SOC 303 Punishment and 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.

**SOCIAL SCIENCE CONCENTRATION IN  
POLITICAL SCIENCE**

**Requirements (9 Credits)**

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

POL 120 American National Government and Politics (3)

POL 230 Introduction to the Law (3)

POL 230 Public Administration (3)

POL 330 The Judicial System (3)

**SOCIAL SCIENCE CONCENTRATION IN  
PSYCHOLOGY**

**Requirements (9 Credits)**

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

PSY 113 General Psychology (3)

PSY 120 Social Behavior (3)

PSY 261 Personality (3)

**SOCIAL SCIENCE CONCENTRATION IN  
SOCIAL WORK**

**Requirements (9 Credits)**

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

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

SW 330 Human Behavior and the Social Environment (3)

SW 402 Child Welfare Services (3)

**OR** SW 411 Chemical Dependency (3)

**SOCIAL SCIENCE CONCENTRATION IN SOCIOLOGY**

**Requirements (9 Credits)**

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

SOC 110 Introduction to Sociology (3)

SOC 205 Social Psychology (3)

SOC 211 Social Theory (3)

**Cytotechnology**

*See Biology*

**Early Childhood Education**

*See Elementary and Early Childhood Education*

**Earth Science**

*See Anthropology*

**East Asian Studies**

*See Languages*

## Economics

Economics Department

MacLean 371, (218) 236-2842

Chair: Oscar Flores, Interim Chair

Faculty: John Cooper, Vern Dobis, Douglas Greenley, Daniel Knighton

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.

### B.A. DEGREE IN ECONOMICS (62 Credits)

#### Requirements (21 Credits)

ECON 202 Principles of Economics I: Micro (3)  
 ECON 204 Principles of Economics II: Macro (3)  
 ECON 300 Global Economic Issues (3)  
 ECON 302 Intermediate Microeconomic Theory (3)  
 ECON 304 Intermediate Macroeconomic Theory (3)  
 ECON 370 Quantitative Economic Analysis (3)  
 ECON 498 Economics Senior 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)  
 CSIS 103 Computer Applications for Business I (3)  
 ENGL 387 Technical Report Writing (4)  
 MATH 229 Fundamentals of Applied Mathematics (3)  
 MATH 234 Introduction to Probability and Statistics (4)  
 SPCH 100 Speech Communication (3)

#### Electives (15 Credits)

Fifteen additional elective credits in Economics courses are required.

### EMPHASIS IN BUSINESS ECONOMICS (75 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 Senior Seminar (3)  
 ECON 302 Intermediate Microeconomic Theory (3)  
 OR ECON 430 Managerial Economics (3)  
 ECON 315 Government and Business (3)  
 OR ECON 415 Industrial Organization and Public Policy (3)

#### Related Requirements (39 Credits)

ACCT 205 Environment of Law (4)  
 ACCT 230 Principles of Accounting I (3)  
 ACCT 231 Principles of Accounting II (3)  
 CSIS 103 Computer Applications for Business I (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)  
 SPCH 100 Speech Communication (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

Elementary and Early Childhood Education Department  
**Lommen 214V, (218) 236-2216**

**Chair:** Roberta Shreve

**Faculty:** Beth Anderson, Solveig Bartz, John Benson, David Cline, Karen Danbom, George Davis, Sandra Gordon, Sarah Smedman, Brian Smith, Cherlyn Sunflower, 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 which includes Curriculum and Instruction and Reading. Descriptions of 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:

1. admission to Teacher Education (see Teacher Education requirements),
2. completion of 45 semester credits,
3. GPA minimum of 2.75 overall and GPA of 2.25 in liberal arts,
4. Verification from supervisor of experience with children/adolescents in a teaching/learning setting,
5. a passing score on the department essay.

Completion of the Pre-Professional Skills Test (PPST) is required before students can enroll in 300 and 400 level education courses. Passing the PPST is mandatory before students will receive Minnesota Licensure.

### 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 of 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 elementary 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 requirement, 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 EECE courses. 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 work 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 primary 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 required for admission into Early Childhood Education, and is required to enroll in any 300/400 level EECE courses.

**There have been significant changes in Teacher Licensure requirements as of spring of 1999. Courses listed in this *Bulletin* apply to students who will graduate after September 1, 2001. Students who will graduate prior to this date are urged to consult with the department. All students should work closely with their academic advisors to monitor other anticipated changes.**

### STUDENT LEARNING OUTCOMES:

#### MSU Art and Science of Teaching

The following performance outcomes are identified as fundamental to the teacher education program at Moorhead State University.

MSU 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;
- 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. See the department or faculty advisor for specific details.

**B.S. DEGREE IN  
ELEMENTARY EDUCATION (102-104 Credits)**
**Core Requirements (18 Credits)**

All students in Elementary Education must complete this Teacher Licensure core and complete a specialty area in Communication and Literature, Mathematics, Science, Social Studies, World Language and Culture, 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)**

All students will take either EECE 341A or 341B and EECE 441A or 441B depending upon their specific licensure needs. Students must take two credits of EECE 467F and one credit of EECE 367J. Additionally, all students must earn ten credits in EECE 485E.

ART 350 Methods and Materials:Art for the Elementary Classroom (3)  
ED 443E Classroom Management/Consultation (3)  
EECE 367J Intermediate Practicum/Elementary Teaching (1-4)  
EECE 388 Classroom Assessment (3)  
EECE 467F Practicum/Elementary Teaching  
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 485E Student Teaching: Elementary  
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)  
EECE 341A Reading and Language Arts I:  
Pre-Primary-Grade 6 (3)  
OR EECE 341B Reading and Language Arts I:  
Kindergarten-Grade 8 (3)  
EECE 441A Children's Literature:Content and Methods,  
Pre-Primary- Grade 6 (3)  
OR EECE 441B Children's Literature:Content and  
Methods,Kindergarten- Grade 8 (3)

**Related Requirements (21 Credits)**

BIOL 105 Exploring Biology (3)  
GEOL 101 Earth Science Today (3)  
MATH 303 Foundations of Number Systems (3)  
MATH 304 Informal Geometry (3)  
MCS 233 Education and Multicultural America (3)  
PHYS 120 Physical Science I (3)  
SPCH 100 Speech Communication (3)

**SPECIALTY AREA IN COMMUNICATION ARTS AND  
LITERATURE (104 Credits)**
**Core Requirements (87 Credits)**

This Specialty Area is intended for students who seek licensure in Kindergarten through Grade 8. Students must also complete the courses listed under "Core Requirements", "Requirements", and "Related Requirements" for the B.S. Degree in Elementary Education.

**Requirements (17 Credits)**

ENGL 491 Teaching English in Secondary Schools (3)  
ENGL 494 Teaching Adolescent Literature and Reading (3)  
ENGL 234 Mythology (3)  
OR ENGL 280 World Literature: East and West (3)  
OR ENGL 372 Survey of American Literature II (4)  
ENGL 286 Practical Writing (3)  
OR ENGL 288 Introduction to Creative Writing (3)  
OR ENGL 394 Advanced Composition (3)  
ENGL 365 Language and Learning (3)  
OR ENGL 493 Grammars of English (3)

**SPECIALTY AREA IN MATHEMATICS (102 Credits)  
Requirements (15 Credits)**

This 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 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)  
MATH 236 Applied Statistics (4)  
OR MATH 335 Intermediate Probability and Statistics I (3)



**SPECIALTY AREA IN SCIENCE (103 Credits)****Requirements (16 Credits)**

This 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 complete any required labs which accompany the listed courses.

BIOL 111 Cell Biology (4)  
 BIOL 303 General Zoology (4)  
 CHEM 155 General Chemistry Laboratory I (1)  
 GEOL 115 Physical Geology (4)  
 PHYS 111L Physics 111 Laboratory 0  
 CHEM 150 General Chemistry I (3)  
 OR CHEM 110 Fundamentals of Chemistry (4)  
 OR PHYS 111 Elementary Physics I (4)

**SPECIALTY AREA IN SOCIAL STUDIES (103 Credits)****Requirements (16 Credits)**

This 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)  
 GEOG 111 World Regional Geography (3)  
 HIST 121 History of the United States to 1877 (4)  
 POL 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 (103 Credits)****Requirements (16 Credits)**

This 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 with equivalent preparation in other languages may substitute those courses for the Spanish courses listed. State of Minnesota licensure requires that prospective teachers of a foreign language demonstrate oral proficiency at the Intermediate High level on the ACTFL scale. This level of proficiency will almost certainly require coursework beyond Spanish 301. Therefore, students who are interested in completing this Specialty Area should consult with the Education Advisor in the Department of Languages. It is highly recommended that students in this Specialty Area also complete SPAN 302, SPAN 401, SPAN 402, and SPAN 421 or 422.

LANG 440 Methods and Materials in Teaching Foreign Languages (4)  
 SPAN 201 Intermediate Spanish I (4)  
 SPAN 202 Intermediate Spanish II (4)  
 SPAN 301 Advanced Spanish Grammar (4)

**SPECIALTY AREA IN PRE-PRIMARY EDUCATION (103 Credits)****Requirements (16 Credits)**

This 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 333 Discovery Learning (3)  
 EECE 334 Play and Development (3)  
 EECE 431 Child Study/ Adaptations for Inclusion (3)  
 EECE 433 Preschool and Kindergarten Curriculum (3)  
 EECE 435 Parent-Professional Relations (3)  
 EECE 467K Practicum: Pre-Primary (1)

**B.S. DEGREE IN EARLY CHILDHOOD EDUCATION (103 Credits)****Core Requirements (18 Credits)**

All students in Early Childhood Education must complete this teacher licensure core as well as courses listed under "Requirements" and "Related Requirements."  
 ED 205 Introduction to Education and Technology (2)  
 ED 205E Early Field Experience (1)  
 ED 294 Educational Psychology (3)  
 ED 310 Social Foundations of Education (3)  
 EECE 230 Child Development for Teachers (3)  
 EECE 291 Foundations of Literacy (3)  
 SPED 320 Educational Services for Individuals with Exceptionalities (3)

**Requirements (67 Credits)**

Students must earn one credit in each of the following courses: EECE 367J, 467I, and 467K. Additionally, students must earn two credits in EECE 469 and ten credits in EECE 485P.  
 ART 350 Methods and Materials: Art for the Elementary Classroom (3)  
 ED 443E Classroom Management/Consultation (3)  
 EECE 280 Introduction to Early Childhood Education (2)  
 EECE 333 Discovery Learning (3)  
 EECE 334 Play and Development (3)  
 EECE 335 Parent-Child Relations in Contemporary Families (3)  
 EECE 341A Reading and Language Arts I: Pre-Primary-Grade 6 (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 441A Children's Literature:Content and Methods,  
 Pre-Primary- Grade 6 (3)  
 EECE 467I Practicum: Infant and Toddler (1-4)  
 EECE 467K Practicum: Pre-Primary (1-4)  
 EECE 469 Internship (1-4)  
 EECE 479 Seminar in Early Childhood Student  
 Teaching (1)  
 EECE 485P Student Teaching: Preschool (1-10)  
 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 (18 Credits)**

BIOL 105 Exploring Biology (3)  
 GEOL 101 Earth Science Today (3)  
 MATH 303 Foundations of Number Systems (3)  
 MCS 233 Education and Multicultural America (3)  
 PHYS 120 Physical Science I (3)  
 SPCH 100 Speech Communication (3)

**MINOR IN EARLY CHILDHOOD  
 EDUCATION (22 Credits)**

**Requirements (19 Credits)**

This minor includes all necessary coursework for licensure in pre-kindergarten. Four credits of EECE 485I or 485P are required and one credit of EECE 467I or 467K. **These requirements apply only to students seeking licensure prior to September 1, 2001.**

EECE 432 Curriculum in Early Childhood Programs (4)  
 EECE 230 Child Development for Teachers (3)  
 EECE 280 Introduction to Early Childhood Education (2)  
 EECE 333 Discovery Learning (3)  
 EECE 334 Play and Development (3)  
 EECE 467I Practicum: Infant and Toddler (1-4)  
 OR EECE 467K Practicum: Pre-Primary (1-4)  
 EECE 485I Student Teaching: Infant /Toddler (1-10)  
 OR EECE 485P Student Teaching: Preschool (1-10)

**Related Requirements (3 Credits)**

SPED 423 Young Children with Disabilities  
 and Their Families (3)

**MINOR IN LANGUAGE AND LITERACY (22 Credits)  
 Requirements (9 Credits)**

Students who earn this minor will have to complete either EECE 341A or 341B and EECE 441A or 441B.

EECE 291 Foundations of Literacy (3)  
 EECE 341A Reading and Language Arts I:  
 Pre-Primary-Grade 6 (3)  
 OR EECE 341B Reading and Language Arts I:  
 Kindergarten-Grade 8 (3)  
 EECE 441A Children's Literature:Content and Methods,  
 Pre-Primary- Grade 6 (3)  
 OR EECE 441B Children's Literature:Content and  
 Methods,Kindergarten- Grade 8 (3)

**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)

## Engineering

Technology Department  
 Hagen 107, (218) 236-2480/2240  
 Chair: Ronald Williams

The Pre-engineering program offers students the opportunity to take their first two years of study for an engineering degree in an environment dedicated to teaching. Those first two years teach students the fundamentals needed throughout their careers-chemistry, physics, mathematics, and engineering mechanics. Moorhead State University provides those classes, plus classes in English, humanities, and the social sciences. Students completing the two-year Pre-engineering sequence transfer to the engineering school of their choice as a third-year student.

Transfer arrangements have been made with the University of Minnesota, North Dakota State University, and several other regional schools of engineering. Program advisors will work closely with students considering other schools to develop a course of study.

Students are referred to the Departments of Physics and Chemistry for descriptions of dual degree options available in cooperation with the University of Minnesota and the University of North Dakota.

**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 150 General Chemistry I (3)  
 CHEM 155 General Chemistry Laboratory I (1)  
 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 (5)  
 PHYS 201 General Physics II (5)

**Electives (17 Credits)**

Seventeen elective credits will be selected in consultation with the Pre-Engineering advisor.

**English**

English Department

**Weld 216, 236-2235**

**Chair:** Sandy Pearce

**Faculty:** Charles Bense, Padmaja Challakere, Sheila Coghill, Alan Davis, John Early, Lin Enger, Laura Fasick, Jill Frederick, Sheila Gullickson, Susan Imbarrato, Gordon Jackson, Gary Litt, Katherine Meiners, Melissa Mowry, Hazel Retzlaff, SuEllen Shaw, John Sherman, Keith Tandy, 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 course work 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. Writing majors may use an English 487 or 488 seminar as their Capstone seminar. All students should consult with their advisors for help in selecting an appropriate Capstone course.

**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 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 (41 Credits)****Core Requirements (19 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 371 Survey of American Literature I (4)  
 ENGL 372 Survey of American Literature II (4)

**EMPHASIS IN LITERATURE (41 Credits)****Core Requirements (19 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 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 (12 Credits)**

Students must take twelve credits in English elective courses. Of the twelve 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 (41 Credits)****Core Requirements (19 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. Four of the credits will be in ENGL 498 which is the capstone course for the writing emphasis.

**Restricted Electives (6 Credits)**

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

**Electives (4 Credits)**

Students must take four credits in English electives.

**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 Writing for Film and TV (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 (3)  
 ENGL 488 Advanced Creative Writing (1-3)

**Electives (6 Credits)**

Students must take six credits in English elective courses.

**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.

**B.S. DEGREE IN ENGLISH: TEACHING (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 (22 Credits)**

**Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major total. Students who will seek licensure later than September 1, 2001, should consult closely with their academic advisor as there will be changes in the licensure requirements.**

ENGL 280 World Literature: East and West (3)  
 ENGL 365 Language and Learning (3)  
 ENGL 394 Advanced Composition (3)  
 ENGL 491 Teaching English in Secondary Schools (3)  
 ENGL 493 Grammars of English (3)  
 ENGL 494 Teaching Adolescent Literature and Reading (3)  
 ENGL 496 Capstone Seminar (4)

**Related Requirements (6 Credits)**

- SPCH 100 Speech Communication (3)  
 SPCH 105 Beginning Oral Interpretation (3)

**Electives (6 Credits)**

Students must earn six credits in English electives. One course must be at the 300 level or above and one course must be at the 400 level.

**MINOR IN ENGLISH: TEACHING (34 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 (18 Credits)**

- ENGL 280 World Literature: East and West (3)  
 ENGL 365 Language and Learning (3)  
 ENGL 394 Advanced Composition (3)  
 ENGL 491 Teaching English in Secondary Schools (3)  
 ENGL 493 Grammars of English (3)  
 ENGL 494 Teaching Adolescent Literature and Reading (3)

**B.A. DEGREE 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 Writing for Film and TV (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 (3)  
 ENGL 488 Advanced Creative Writing (1-3)

**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.

**LICENSURE IN ENGLISH AS A SECOND LANGUAGE (POST-BACCALAUREATE) (49 Credits)****Requirements (34 Credits)**

These requirements apply only to students who seek licensure in ESL prior to September 1, 2001.

Students who will apply for licensure after September 1, 2001 should consult with the ESL Coordinator for program requirements. Students in this program must hold a baccalaureate degree and have completed a minimum of one year of college-level (or four years of high-school level) foreign language. Students must satisfy the Human Relations component as required by the State of Minnesota.

- ANTH 110 Culture and Symbols (3)  
 ANTH 265 Language and Culture (3)  
 ED 460S Student Teaching: Secondary (5)  
 EECE 291 Foundations of Literacy (3)  
 EECE 448 Reading Study Skills in the Content Areas (3)  
 EECE 449 Linguistics in Reading (3)  
 EECE 480E Student Teaching: Elementary (5)  
 ENGL 364 American English (3)  
 ENGL 461 Introduction to Descriptive Linguistics (3)  
 ENGL 492 Transformational Grammar (3)

**Restricted Electives (3 Credits)**

Students must take a minimum of three credits from the following list of courses.

- ENGL 463 History of the English Language (3)  
 SLHS 201 Phonetics (2)  
 SLHS 204 Language Development (4)

**Related Requirements (12 Credits)**

- ED 205 Introduction to Education and Technology  
 ED 205E Early Field Experience (1)  
 ED 294 Educational Psychology (3)  
 HLTH 110 Personal Health (3)  
 SPED 320 Educational Services for Individuals with Exceptionalities (3)

**Recommended (0 Credits)**

The following courses are highly recommended as part of liberal studies credits.

- AMST 217 Introduction to the American Culture (3)
- AMST 317 The Midwest (3)
- HIST 303 History of Africa I (3)
- HIST 304 History of Africa II (3)
- HIST 305 Modern Middle East (3)
- HIST 307 Topics in Asian History (3)
- HIST 308 Topics in African History (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)

**English as a Second Language (ESL)**

See English

**Finance**

See Business

**French**

See Languages

**Gerontology**

Sociology and Criminal Justice Department

Lommen 102, (218) 236-2045

Chair: Joel Charon

Program Coordinator: Nancy Gilliland

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: (1) the study of physical, mental, and social changes; (2) the investigation of societal changes resulting from an aging population; and (3) the application of this knowledge to policy and program development.

**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 electives and a concentration in Anthropology, Economics, Health, Political Science, Psychology, Social Work, or Sociology.

ANTH 302 Cultural Aspects of Aging (3)

NURS 420 Gerontological Nursing (2)

PSY 403 Adulthood and Aging (3)

SW 308 Introduction to Gerontology (3)

OR SOC 308 Introduction to 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 of Social Research (4)

SOC 351 Quantitative Methods (2)

SOC 352 Qualitative Methods (2)

SW 360 Research Methods in Social Work (3)

**Electives (15 Credits)**

Students must choose fifteen credits from the following courses. Students are encouraged to take an internship related to gerontological issues.

ACCT 205 Environment of Law (4)

ACCT 230 Principles of Accounting I (3)

ANTH 248 Theory Through Institutions (4)

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 326 Epidemiology (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 265 Health Psychology (3)

PSY 463 Abnormal Psychology (3)

SOC 215 Population (3)

SOC 235 Sociology of Health and Medicine (3)

SOC 320 Sociology of the Family (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)  
 SW 460 Social Policy (3)  
 SW 490 Topical Seminar in Social Welfare

#### **CONCENTRATION 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 two listed courses, plus six credits of Anthropology electives.

ANTH 110 Culture and Symbols (3)  
 ANTH 111 Human Evolution and Prehistory (3)

#### **CONCENTRATION 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)

#### **CONCENTRATION 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.

HLTH 200 Introduction to Health Education and Health Promotion (2)  
 HLTH 305 Introduction to Nutrition (3)  
 HLTH 315 Health Agencies and Services (3)  
 HLTH 326 Epidemiology (3)  
 HLTH 330 Disease Prevention (2)

#### **CONCENTRATION IN POLITICAL SCIENCE (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 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)

#### **CONCENTRATION 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)

#### **CONCENTRATION IN SOCIAL WORK (48 Credits)**

##### **Core Requirements (36 Credits)**

Students must complete the courses listed as "Core Requirements" 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)

**CONCENTRATION IN SOCIOLOGY (48 Credits)****Core Requirements (36 Credits)**

Students must complete the courses listed as "Core Requirements" 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 205 Social Psychology (3)
- SOC 211 Social Theory (3)
- SOC 310 Dominant-Subordinate Group Relations (3)

**MINOR IN GERONTOLOGY (21 Credits)****Requirements (12 Credits)**

- ANTH 302 Cultural Aspects of Aging (3)
- NURS 420 Gerontological Nursing (2)
- SOC 410 Gerontology: Policy and Practice (4)
- SOC 308 Introduction to Gerontology (3)
- OR PSY 403 Adulthood and Aging (3)

**Electives (9 Credits)**

Students must take nine elective credits. Courses may be selected from those listed. Concordia College and North Dakota State University 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 235 Sociology of Health and Medicine (3)
- SW 403 Health Care Issues and Services (3)
- SW 411 Chemical Dependency (3)
- OR PSY 317 Alcoholism and Drug Abuse (3)

**Graphic Communications**

See *Technology*

**Health**

Health-Physical Education Department  
Nemzek 106, (218) 236-2445

**Chair:** Richard Bynum

**Faculty:** Kari Berg, Bruce Briggs, D. Ellen Cromwell-Cecrle, Nancy Christenson, Wendy Frappier, James Gemar, Randall Smith

The department offers degrees in both health and physical education. Requirements for physical education degrees are listed under Physical Education in this *Bulletin*.

B.S. degrees are offered in Health Education, Community Health, and Health Services Administration.

The Health Services Administration major will prepare students for a variety of entry-level management positions in the growing health care industry. It includes studies in health agencies and services, biology, disease prevention, computer science, financial management, and health care law.

**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 (58 Credits)**  
**Requirements (35 Credits)**

Students must earn at least two credits of internship in HLTH 469.

- HLTH 110 Personal Health (3)
- HLTH 125 First Aid and CPR (2)
- HLTH 200 Introduction to Health Education and Health Promotion (2)
- HLTH 305 Introduction to Nutrition (3)
- HLTH 315 Health Agencies and Services (3)
- HLTH 326 Epidemiology (3)
- HLTH 327 Safety Education and Consumer Protection (3)
- HLTH 330 Disease Prevention (2)
- HLTH 340 Health Methods and Materials (3)



HLTH 412 Education for Sexuality and HIV/AIDS (3)  
 HLTH 415 Design and Evaluation of Community Health Programs (3)  
 HLTH 465 Comprehensive School Health Programs (3)  
 HLTH 469 Internship

**Related Requirements (23 Credits)**

BIOL 103 Humanity and the Ecosystem (3)  
 CHEM 102 Survey of Basic Principles of Chemistry (3)  
 ENGL 387 Technical Report Writing (4)  
 MC 220 Desktop Publishing (3)  
 PE 211 Concepts of Physical Fitness (2)  
 PE 320 Anatomical Kinesiology (3)  
 PE 321 Human Physiology (3)  
 SPCH 100 Speech Communication (3)

**MINOR IN COMMUNITY HEALTH (24 Credits)**

**Requirements (24 Credits)**

Students who seek this minor must also earn a teaching major in another discipline.

HLTH 110 Personal Health (3)  
 HLTH 125 First Aid and CPR (2)  
 HLTH 200 Introduction to Health Education and Health Promotion (2)  
 HLTH 305 Introduction to Nutrition (3)  
 HLTH 315 Health Agencies and Services (3)  
 HLTH 326 Epidemiology (3)  
 HLTH 327 Safety Education and Consumer Protection (3)  
 HLTH 330 Disease Prevention (2)  
 HLTH 412 Education for Sexuality and HIV/AIDS (3)

**B.S. DEGREE IN HEALTH EDUCATION:**

**TEACHING (80 Credits)**

**Requirements (27 Credits)**

Students must fulfill all teacher licensure requirements which will add thirty-three credits to the major.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

HLTH 110 Personal Health (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 465 Comprehensive School Health Programs (3)

**Related Requirements (20 Credits)**

Students must earn twenty credits from the following departments: Biology, Physical Education, Psychology, Sociology, and Speech. The courses listed below are suggested choices.

BIOL 103 Humanity and the Ecosystem (3)  
 PE 211 Concepts of Physical Fitness (2)  
 PE 320 Anatomical Kinesiology (3)  
 PE 321 Human Physiology (3)  
 PSY 113 General Psychology (3)  
 SOC 110 Introduction to Sociology (3)  
 SPCH 100 Speech Communication (3)

**MINOR IN HEALTH EDUCATION:**

**TEACHING (26 Credits)**

**Requirements (26 Credits)**

Students who select this minor must also earn a teaching major in another discipline.

HLTH 110 Personal Health (3)  
 HLTH 125 First Aid and CPR (2)  
 HLTH 305 Introduction to Nutrition (3)  
 HLTH 327 Safety Education and Consumer Protection (3)  
 HLTH 340 Health Methods and Materials (3)  
 HLTH 412 Education for Sexuality and HIV/AIDS (3)  
 HLTH 465 Comprehensive School Health Programs (3)  
 PE 320 Anatomical Kinesiology (3)  
 PE 321 Human Physiology (3)

**B.S. DEGREE IN HEALTH SERVICES (58 Credits)**

**ADMINISTRATION**

**Requirements (32 Credits)**

Students must earn twelve credits in HLTH 469.  
 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)  
 HLTH 469 Internship (2-12)

**Restricted Electives (6 Credits)**

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

ACCT 205 Environment of Law (4)  
 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 (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 205 Social Psychology (3)  
 SOC 235 Sociology of Health and Medicine (3)  
 SOC 308 Introduction to Gerontology (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 Applications for Business I (3)  
 CSIS 446 Decision Support Systems (3)  
 MGMT 360 Principles of Management (3)  
 MGMT 440 Personnel Management (3)  
 MKTG 310 Principles of Marketing (3)  
 PE 321 Human Physiology (3)  
 POL 340 Public Administration (3)

## History

History Department  
 MacLean 302, (218) 236-2812

Chair: Paul Harris

Faculty: Henry Chan, Dianne Farrell, Steven Hoffbeck, I. Kenneth Smemo, Larry Witherell

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 Moorhead State 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)****Core Requirements (11 Credits)**

Students must earn at least three credits in Senior Seminar.

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)

**Requirements (8 Credits)**

Students must complete a one year sequence in Western Civilization or a one year sequence in World History.

HIST 101 Western Civilization I (4)  
 HIST 102 Western Civilization II (4)

– OR –

HIST 104 World History I (4)  
 HIST 105 World History II (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 in History. The elective total of 5 credits in History may vary, depending on the credit value of the History courses which students take to complete other History requirements.

**MINOR IN HISTORY (26 Credits)****Core Requirements (8 Credits)**

HIST 121 History of the United States to 1877 (4)  
 HIST 122 History of the United States since 1877 (4)

**Requirements (8 Credits)**

Students must complete a one year sequence in Western Civilization or a one year sequence in World History.

HIST 101 Western Civilization I (4)  
 HIST 102 Western Civilization II (4)

– OR –

HIST 104 World History I (4)  
 HIST 105 World History II (4)

**Restricted Electives (10 Credits)**

Students must take four 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**

Sociology and Criminal Justice Department  
 Lommen 102, (218) 236-2038  
 Program Coordinator: Michael W. Hughey

The Honors Program exists to reward and encourage superior academic achievement. It is designed to create a community of learning in which students can pursue ideas collectively and learn with and from each other as well as from instructors. Students with a 3.5 GPA or better are invited into the program at the end of their freshman year. Course work usually begins in the sophomore year. Those who complete the Honors Program will have their achievement noted on their transcript.

**HONORS PROGRAM (14 Credits)****Core Requirements (4 Credits)**

HON 200 Honors Colloquium (4)

**Restricted Electives (10 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)

## Humanities

Humanities and Multicultural Studies Department  
MacLean 326, (218) 236-2196

**Chair:** Dieter Berninger

**Faculty:** D.C. Cole, Konrad Czynski, Phyllis May-Machunda, Robert McGahey, Joyce Torgerson

The Humanities and Multicultural Studies Department is the core of a variety of interdisciplinary majors and programs: a B.A. in American Studies (see American Studies); an individualized major in Humanities; a Fine Arts minor; a Humanities minor; an African American Humanities minor; an American Indian Studies minor; a Chicano Studies minor; and a Multicultural Studies minor. (See *Multicultural Studies*.)

### 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 Perspective 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.

## Individualized Major

See *Academic Programs* section of this *Bulletin*

## Industrial Distribution Industrial Management

See *Technology*

## International Business

See *Business*

## Japanese

See *Languages*

## Journalism

See *Mass Communications*

## Languages

Languages Department

MacLean 271, (218) 236-2912

**Chair:** John Hall

**Faculty:** Michael Hasbrouk, James Kaplan, Edith Krause, Jenny Lin, Takanori Mita, Dolores Pons-Hervas, James Weckler

The department offers a B.A. and B.S. major and minor degree program in Spanish, a B.A. major and minor in East Asian Studies and a B.A. in Languages. Three-year courses of study are offered in Chinese and Japanese. A two-year course of study is offered in French. Students may obtain minors in German or French through Tri-College coursework.

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, including 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.

### 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 10 credits of upper-level course work in the department, including Languages 440, Methods of Teaching Foreign Languages. 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. The student who expects to seek a graduate degree is advised to plan an undergraduate curriculum with a minor in a second language or with a double major. It is also advisable to take more than the minimum credits required for the major.

### Study Aboard

It is recommended that all majors in the Department of Languages spend at least one semester in an approved study abroad program. Such an experience can be an invaluable component of the degree.

### Previous Instruction

Students with one year or less of a 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 with three to four years of high school language instruction should enroll in an intermediate course (201 or 202). Those students who have successfully completed four or more years of high school instruction should register for an advanced course, usually 301 (Advanced Grammar).

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.

### 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/Advanced Plus proficiency level, students are able to:

- understand main ideas and most details of connected discourse on a variety of topics in different time frames such as interviews, short lectures on familiar topics, news items and reports dealing with factual information;
- demonstrate emerging awareness of culturally implied meaning.

#### Reading:

At the Advanced Plus proficiency level, students are able to follow essential points of written discourse at normal speed. They are able to:

- Comprehend a variety of authentic, linguistically complex and conceptually abstract literary, cultural,

and expository texts on familiar and unfamiliar subjects, such as descriptions, narration, short stories and a variety of other literary texts, news items, biographical information, personal correspondence, routine business letters and simple technical material;

- Comprehend facts and make appropriate inferences;
- Appreciate the basic aesthetic properties of language and literary style.

#### Writing:

At the Intermediate-Mid/High proficiency level, students are able to meet most practical writing needs. They are able to:

- write simple social correspondences, take notes, compose summaries, narratives and descriptions of a factual nature;
- use a range of vocabulary to express intended meaning with some circumlocution;
- demonstrate good control of the basic syntax and morphology of the target language;
- organize essays to clearly develop main thesis and argumentation showing some awareness of intended audience and appropriate linguistic register.

#### Speaking:

At the Intermediate-Mid/High proficiency level, students can initiate and maintain communication for most uncomplicated social tasks. They are able to:

- successfully handle basic survival needs in the target culture;
- be understood by most speakers of the native language.

#### 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 literary analysis;
- Research and Information Gathering: Students in upper-division literature and culture classes 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 grammar, morphology and syntax 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 LANGUAGES****Requirements (39 Credits)**

Students who wish to pursue the B.A. in Languages must also complete a "primary" major in another academic program. The student will take at least 23 credits of intermediate and advanced language/literature and/or culture/civilization courses in a primary language and at least 16 credits in beginning and intermediate language courses in a secondary language.

**B.A. DEGREE IN SPANISH (38 Credits)****Requirements (26 Credits)**

SPAN 201 Intermediate Spanish I (4)  
 SPAN 202 Intermediate Spanish II (4)  
 SPAN 301 Advanced Spanish Grammar (4)  
 SPAN 302 Spanish Conversation and Composition (4)  
 SPAN 311 Introduction to Spanish Literature (4)  
 SPAN 498 Senior Project (2)  
 SPAN 312 Survey of Iberian Literature (4)  
 OR SPAN 314 Survey of Latin American Literature (4)

**Restricted Electives (12 Credits)**

Students must take twelve credits in Spanish electives from the following list.

SPAN 401 Advanced Conversation and Composition (3)  
 SPAN 402 Survey of Spanish Linguistics (3)  
 SPAN 411 Genres and Themes of Iberian/Latin American Literature (3)  
 SPAN 412 Periods and Authors of Iberian / Latin American Literature (3)  
 SPAN 421 Iberian Culture and Civilization (3)  
 SPAN 422 Latin American Culture and Civilization (3)  
 SPAN 490 Special Topics in Spanish Language, Literature or Culture (3)

**MINOR IN SPANISH (20 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 Advanced Spanish Grammar (4)  
 SPAN 302 Spanish Conversation and Composition (4)  
 SPAN 311 Introduction to Spanish Literature (4)

**Restricted Electives (3 Credits)**

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

**B.S. DEGREE IN SPANISH: TEACHING (75 Credits) Requirements (30 Credits)**

The teaching major is identical to the B.A. program except that students must take Lang 440 and fulfill all teacher licensure requirements which will add thirty-three credits to the major.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

LANG 440 Methods and Materials in Teaching Foreign Languages (4)

SPAN 201 Intermediate Spanish I (4)  
 SPAN 202 Intermediate Spanish II (4)  
 SPAN 301 Advanced Spanish Grammar (4)  
 SPAN 302 Spanish Conversation and Composition (4)  
 SPAN 311 Introduction to Spanish Literature (4)  
 SPAN 498 Senior Project (2)  
 SPAN 312 Survey of Iberian Literature (4)  
 OR SPAN 314 Survey of Latin American Literature (4)

**Restricted Electives (12 Credits)**

Students must take twelve credits from the following list.

SPAN 401 Advanced Conversation and Composition (3)  
 SPAN 402 Survey of Spanish Linguistics (3)  
 SPAN 411 Genres and Themes of Iberian/ Latin American Literature (3)  
 SPAN 412 Periods and Authors of Iberian / Latin American Literature (3)  
 SPAN 421 Iberian Culture and Civilization (3)  
 SPAN 422 Latin American Culture and Civilization (3)  
 SPAN 490 Special Topics in Spanish Language, Literature or Culture (3)

**MINOR IN SPANISH: TEACHING (24 Credits)****Requirements (24 Credits)**

The teaching minor is identical to the non-teaching minor except that students must take Lang 440 and must earn a teaching major in another discipline.

LANG 440 Methods and Materials in Teaching Foreign Languages (4)  
 SPAN 201 Intermediate Spanish I (4)  
 SPAN 202 Intermediate Spanish II (4)  
 SPAN 301 Advanced Spanish Grammar (4)  
 SPAN 302 Spanish Conversation and Composition (4)  
 SPAN 311 Introduction to Spanish Literature (4)

**Restricted Electives (3 Credits)**

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

**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. 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 132 Introduction to Chinese Culture (3)

CHIN 201 Intermediate Chinese I (4)

CHIN 202 Intermediate Chinese II (4)

JAPN 101 Beginning Japanese I (4)

JAPN 102 Beginning Japanese II (4)

JAPN 142 Introduction to Japanese Culture (3)

JAPN 201 Intermediate Japanese I (4)

JAPN 202 Intermediate Japanese II (4)

**Restricted Electives (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 "Requirements" for the B.A. Degree in East Asian Studies.

Normally business minors or majors will not have additional prerequisites to take these courses. Non-business students should note that ECON 202 and ECON 204 are prerequisites for ECON 300; FINC 340 and ACCT 231 and MATH 134 are prerequisites to FINC 445; MKTG 310 is a prerequisite to MKTG 444; and MGMT 360 is a prerequisite to MGMT 458.

**Requirements (12 Credits)**

ECON 300 Global Economic Issues (3)

FINC 445 International Financial Management (3)

MGMT 458 International Management (3)

MKTG 444 International Marketing (3)

**EMPHASIS IN HUMANITIES (40 Credits)****Core Requirements (28 Credits)**

Students must complete the courses listed under "Core Requirements" and "Restricted Electives" for the B.A. Degree in East Asian Studies.

**Requirements (3 Credits)**

ART 338 Non-Western Art (3)

**Restricted Electives (9 Credits)**

Students must earn four 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)

HIST 401 Senior Seminar (3-4)

HIST 497 Individual Study (1-3)

– AND –

Students must earn five credits from the following list of courses:

CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)

CHIN 397 Independent Study in Chinese: Advanced Level (1-2)

HIST 220 Asian-American Culture (2)

HUM 220 Introduction to East-West Humanities (3)

JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)

JAPN 397 Independent Study in Japanese: Advanced Level (1-2)

SPCH 300 Intercultural Communication: U.S./Asia (3)

**EMPHASIS IN LANGUAGE AND CULTURE (40 Credits)****Core Requirements (28 Credits)**

Students must complete the courses listed under "Core Requirements" and "Restricted Electives" for the B.A. Degree in East Asian Studies.

**Restricted Electives (8 Credits)**

Students must complete **either** an approved study Abroad experience in East Asia **or** the following as specified:

Students must complete eight credits from the following list of courses:

CHIN 301 Advanced Chinese Grammar (4)

CHIN 302 Chinese Conversation and Composition (4)

CHIN 390 Topics in Chinese Language, Literature and Culture (1-4)

CHIN 397 Independent Study in Chinese: Advanced 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 (1-2)

**Restricted Electives (4 Credits)**

Students must complete four 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)
- HIST 401 Senior Seminar (3-4)
- HIST 497 Individual Study (1-3)

**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. Equivalent of some of these courses may be taken through Study Abroad programs with approval of the program coordinator.

- CHIN 101 Beginning Chinese I (4)
- CHIN 102 Beginning Chinese II (4)
- CHIN 132 Introduction to Chinese Culture (3)
- CHIN 190 Topics in Chinese Language, Literature, and Culture
- CHIN 201 Intermediate Chinese I (4)
- CHIN 202 Intermediate Chinese II (4)
- CHIN 290 Topics in Chinese Language, Literature, and Culture
- CHIN 297 Independent Study in Chinese: Intermediate level
- CHIN 301 Advanced Chinese Grammar (4)
- CHIN 302 Chinese Conversation and Composition (4)
- CHIN 390 Topics in Chinese Language, Literature and Culture
- CHIN 397 Independent Study in Chinese: Advanced Level
- ECON 300 Global Economic Issues (3)
- ECON 335 Comparative Systems and Economic Development (3)
- FINC 445 International Financial Management (3)
- HIST 301 East Asian History I (3)
- HIST 302 East Asian History II (3)
- HIST 307 Topics in Asian History (3)
- HIST 346 Modern China (3)
- HIST 347 Modern Japan (3)
- HIST 378 Asian-American History (3)
- HIST 401 Senior Seminar
- HIST 497 Individual Study
- JAPN 101 Beginning Japanese I (4)
- JAPN 102 Beginning Japanese II (4)
- JAPN 142 Introduction to Japanese Culture (3)
- JAPN 190 Topics in Japanese Language, Literature, and Culture

- JAPN 201 Intermediate Japanese I (4)
- JAPN 202 Intermediate Japanese II (4)
- JAPN 290 Topics in Japanese Language, Literature, and Culture
- JAPN 297 Independent Study in Japanese-Intermediate Level
- JAPN 301 Advanced Japanese Grammar (4)
- JAPN 301 Advanced Japanese Grammar (4)
- JAPN 302 Japanese Conversation and Composition (4)
- JAPN 390 Topics in Japanese Language, Literature and Culture
- JAPN 397 Independent Study in Japanese: Advanced Level
- MGMT 458 International Management (3)
- MKTG 444 International Marketing (3)
- PHIL 120 World Religions (3)
- SPCH 300 Intercultural Communication: U.S./Asia (3)

**Latin**

*See Classics*

**Legal Assistant**

*See Paralegal*

**Life Science (Teaching)**

*See Biology*

**Management**

*See Business*



## Management Information Systems

Computer Sciences and Information Department and Business Administration Department

**Contact Faculty Members:** John Gaffrey, Computer Science and Information Systems Department (218) 236-2299 and Richard Peschke, Business Administration Department, (218) 236-4659

The MIS program prepares students for a professional career in information systems. Since the MIS graduate becomes a communications bridge between the technically-oriented computer professionals who build information systems and the business-oriented professionals who manage and use information systems, a strong background is needed in both the technical and business area. Hence the curriculum focuses on both the technical and business knowledge and skills needed to develop and manage information systems that capture, store and process data for business operations and create reports for management decision making.

### STUDENT LEARNING OUTCOMES:

Students will demonstrate:

- effective writing skills needed to communicate in a highly technical area;
- good grammar, spelling and punctuation;
- logical organization of ideas;
- good presentation of ideas;
- effective oral skills needed to communicate in a highly technical area;
- logical organization of an oral presentation;
- good delivery of an oral presentation;
- appropriate use of visual aids in an oral presentation;
- effective use of interviewing skills needed to acquire information for analysis and design;
- understand the legal, ethical and social issues in the computing discipline;
- effective use of problem solving skills;
- analyze and model data with entity-relationship diagrams;
- analyze and model processes with data-flow diagrams;
- design and normalize databases to 3rd normal form;
- design and modularize programs using pseudocode;
- implement databases and programs based on the above designs using DBMS and/or programming language;
- understand algorithms;
- understand data structures;
- possess a basic knowledge of the principles and processes of management.

### 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 MANAGEMENT INFORMATION SYSTEMS (81 Credits)

### Requirements (61 Credits)

- ACCT 230 Principles of Accounting I (3)
- ACCT 231 Principles of Accounting II (3)
- CSIS 103 Computer Applications for Business I (3)
- CSIS 150 Introduction to Computers and Programming I (4)
- CSIS 151 Introduction to Computers and Programming II (4)
- CSIS 240 Introduction to Information Systems (3)
- CSIS 250 File Design, Organization and Processing with COBOL (4)
- CSIS 335 Graphical User Interface Programming (3)
- CSIS 345 Analysis and Design of Information Systems (3)
- CSIS 346 Design, Implementation and Support of Information Systems (3)
- CSIS 349 Networks and Data Communications (3)
- CSIS 444 Database Concepts, Design and Implementation (4)
- CSIS 446 Decision Support Systems (3)
- FINC 340 Financial Management (3)
- MGMT 360 Principles of Management (3)
- MGMT 380 Operations Management (3)
- MGMT 424 Management Science (3)
- MKTG 310 Principles of Marketing (3)
- BUS 498 Business Policy (3)
  - OR CSIS 449 Systems Analysis and Design Field Project (3)
  - OR CSIS 469 Internship (3)

### Related Requirements (20 Credits)

- ECON 202 Principles of Economics I: Micro (3)
- ENGL 387 Technical Report Writing (4)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- SOC 205 Social Psychology (3)
- SPCH 100 Speech Communication (3)

## Marketing

See Business

## Mass Communications

Mass Communications Department

**MacLean 260, (218) 236-2983**

**Chair:** Colan T. Hanson

**Faculty:** Marvin Bossart, Jonathan Gilbertson, Martin Grindelund, Wayne Gudmundson, Shelton Gunaratne, William Hall, C. Mark Strand, Susanne Williams

The major in Mass Communications is designed to balance the breadth of liberal education with the depth of a professional program. To accomplish these twin goals, the department requires majors to complete 65 credits of liberal studies courses; and 39 to 54 credits in mass communications coursework as part of the 128 credits required for graduation.

### **The Distributional Requirement (65 credits)**

All Mass Communications degrees must include a minimum of 65 credits in Liberal Studies, to include the following:

Economics: two courses;  
History, Political Science, or Geography: two courses;  
Anthropology, Psychology or Sociology: two courses;  
Foreign Language or Statistics;  
Speech (public speaking).

All of the distributional requirements must be selected from the university's published list of approved liberal studies courses. Students who have already earned a bachelor's degree and are working on a second degree are not required to complete the distributional requirement if they have completed 65 credits of liberal studies.

### **The Common Core (21 credits)**

All students who major in mass communications are required to complete a common core of study including coursework emphasizing mass communications theory, ethics, law and the development of skills in written and visual communications.

### **The Professional Emphasis (18-33 credits)**

In addition to the common core, students who major in mass communications emphasize in one of seven areas: advertising, integrated advertising and public relations, broadcast journalism, online journalism, photojournalism, print journalism or public relations. Courses in the professional emphasis, MC 400 Mass Media Ethics and Issues (3) and MC 401 Communications Law (3), must be completed at MSU.

Transfer and Tri-College University courses which are applied to the major must be approved in writing by the chairperson of the department at the time of admission or prior to taking the course.

### **Advertising**

The advertising emphasis prepares students to research, create ads, design campaigns, and buy or sell media and develop promotions in support of advertising and marketing goals.

### **Broadcast Journalism**

The broadcast journalism emphasis prepares students for work in the news departments at radio and television stations. The study of writing, reporting, photography, editing, production and producing is emphasized.

### **Integrated Advertising and Public Relations**

The integrated advertising and public relations emphasis prepares students to research, create, design campaigns, manage special events and develop promotions in advertising and public relations.

### **Photojournalism**

The photojournalism emphasis prepares students to investigate, report, photograph, edit and produce news and feature documentaries.

### **Print Journalism**

The print journalism emphasis prepares students to investigate, write, report, copy edit news and feature stories.

### **Public Relations**

The public relations emphasis prepares students to research, create public relations materials, design campaigns, and manage special events.

### **Online Journalism**

The online journalism emphasis prepares students for work in news environments where a knowledge of writing, reporting, photographing, editing and producing stories for newspapers, radio, television and other electronic media is necessary.

### **Dual Major: English and Mass Communications**

A dual major in English and Mass Communications is available for those who wish to concentrate in writing. Students who elect this option are not required to complete the distributional requirements in mass communications; however, they are required to complete the university's liberal studies requirements.

### **Minor in Mass Communications**

The minor in mass communications is designed to introduce students to the study of mass communications.

**STUDENT LEARNING OUTCOMES:**

Selective outcomes include:

- correctly identify established beliefs about journalism, advertising and public relations;
- construct an ethics model of mass communications that reflects the norms of the profession;
- complete a written communications campaign document that addresses the standard components of an industry-based campaign prospectus;
- write for the media at a level that is in keeping with the standards of the media industry;
- develop visual materials that can be placed in an exhibition that simulates a professional exhibition;
- develop an ability to work collaboratively on a professional prototype project; and
- develop an entry-level competence in a student's chosen 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. The designated upper level courses include Reporting, Broadcast Journalism, Ad Copywriting, and Public Relations Processes.

**B.S. DEGREE IN MASS COMMUNICATIONS (59-74 Credits)****Core Requirements (21 Credits)**

The core is required of all students who major in one of the Mass Communications concentrations: 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 400 Mass Media Ethics and Issues (3)

MC 401 Communications Law (3)

MC 300 International Communications (3)

**OR** MC 302 History of Mass Communications (3)

**EMPHASIS IN ADVERTISING (65 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**Requirements (24 Credits)**

MC 272 Television Production (3)

MC 303 Advertising Principles (3)

MC 304 Public Relations Principles (3)

MC 306 Advertising Copywriting (3)

MC 320 Layout and Typography (3)

MC 365 Advertising Media Strategy (3)

MC 459 Advertising Campaign Research (3)

MC 460 Advertising Campaign Execution (3)

**EMPHASIS IN BROADCAST****JOURNALISM (62 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**Requirements (21 Credits)**

MC 272 Television Production (3)

MC 308 Broadcast Journalism (3)

MC 309 Reporting (3)

MC 341 Television News Writing (1)

MC 342 Television News Reporting (3)

MC 343 Television News Photography (3)

MC 440 Broadcast Documentary (3)

MC 344 Television News Video Editing (3)

**OR** MC 345 Television News Producing (2-3)

**Recommended (0 Credits)**

MC 372 Television Directing (3)

MC 373 Radio/Television Performance (3)

MC 405 Computer Assisted Reporting (3)

**EMPHASIS IN INTEGRATED ADVERTISING AND PUBLIC RELATIONS (74 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**Requirements (33 Credits)**

- MC 303 Advertising Principles (3)
- MC 304 Public Relations Principles (3)
- MC 306 Advertising Copywriting (3)
- MC 307 Public Relations Processes (3)
- MC 320 Layout and Typography (3)
- MC 365 Advertising Media Strategy (3)
- MC 375 Case Studies in Organizational Public Relations (3)
- MC 423 Marketing Communications (3)
- MC 272 Television Production (3)
  - OR MC 310 Copy Editing (3)
- MC 459 Advertising Campaign Research (3)
  - OR MC 470 Public Relations Campaign Research (3)
- MC 460 Advertising Campaign Execution (3)
  - OR MC 471 Public Relations Campaign Execution (3)

**EMPHASIS IN ONLINE JOURNALISM (74 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**Requirements (33 Credits)**

- MC 301 Online Advertising, News, and PR (3)
- MC 308 Broadcast Journalism (3)
- MC 309 Reporting (3)
- MC 310 Copy Editing (3)
- MC 320 Layout and Typography (3)
- MC 330 Photojournalism (3)
- MC 331 Photo Editing (3)
- MC 343 Television News Photography (3)
- MC 344 Television News Video Editing (3)
- MC 405 Computer Assisted Reporting (3)
- MC 492 Online Journalism Workshop (3)

**Recommended (0 Credits)**

- CSIS 101 Introduction to the Internet (2)
- MC 420 Multimedia Communications (3)

**EMPHASIS IN PHOTOJOURNALISM (62 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**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 320 Layout and Typography (3)
- MC 330 Photojournalism (3)
- MC 343 Television News Photography (3)
- MC 430 Documentary Photography (3)
- MC 308 Broadcast Journalism (3)
  - OR MC 309 Reporting (3)
- MC 331 Photo Editing (3)
  - OR MC 344 Television News Video Editing (3)

**EMPHASIS IN PRINT JOURNALISM (59 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**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 410 Investigative Processes (3)

**EMPHASIS IN PUBLIC RELATIONS (65 Credits)****Core Requirements (21 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mass Communications. All Mass Communications students are also required to earn 20 credits in Liberal Studies areas in addition to completing the University's 45 credit Liberal Studies requirement.

**Requirements (24 Credits)**

- MC 303 Advertising Principles (3)
- MC 304 Public Relations Principles (3)
- MC 307 Public Relations Processes (3)
- MC 310 Copy Editing (3)
- MC 375 Case Studies in Organizational Public Relations (3)
- MC 470 Public Relations Campaign Research (3)
- MC 471 Public Relations Campaign Execution (3)
- MC 320 Layout and Typography (3)
  - OR MC 330 Photojournalism (3)

**Recommended (0 Credits)**

Students are encouraged to enroll in MC 309.

**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)**

Students in this major do not need to meet the distributional requirement (20 Liberal Studies credits in addition to the University's 45 credit Liberal Studies requirement) of the Mass Communications department.

- 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 400 Mass Media Ethics and Issues (3)  
 MC 401 Communications Law (3)  
 MC 300 International Communications (3)

OR MC 302 History of Mass Communications (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 Writing for Film and TV (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 (3)  
 MC 306 Advertising Copywriting (3)  
 OR MC 307 Public Relations Processes (3)  
 OR MC 308 Broadcast Journalism (3)  
 OR MC 309 Reporting (3)

**Electives (19 Credits)**

Students must take 10 elective credits in English courses and 9 elective credits in Mass Communications courses. At least nine of the English elective credits must be at the 300 level or above. Further, at least one course must be in American literature and at least one course must be in British literature. The English electives should be chosen in close consultation with an advisor from the English department. The Mass Communications electives must also be chosen in close consultation with a faculty advisor in the Mass Communications department.

**Mathematics**

Mathematics Department

MacLean 362, (218)-2274

Chair: Don Mattson

Faculty: Sayel Ali, Wayne Chen, Sidney J. Drouilhet, Marvel Froemming, James Hatzenbuehler, Lian Ng, Timothy Peil, Dennis Rhoads, Derald Rothmann, Walter Sizer, Ariyaratna Wijetunga, Vernon Wolff.

The Bachelor of Arts (B.A.) degree in mathematics is designed to prepare students to enter graduate school in mathematics or other disciplines that require a strong background in mathematics. This degree is also appropriate for students seeking a solid liberal arts degree that will enable them to be successful in a wide variety of careers.

The Bachelor of Science (B.S.) degree in mathematics is a professional degree with three different emphases:

**Teaching Emphasis**

This emphasis is for students who intend to teach math 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 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 and business.

Students who major in mathematics often declare a minor in a second technical field such as biology, chemistry, physics, computer science, or business. Minors in mathematics are available to complement any major.

**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 (43 Credits)****Requirements (27 Credits)**

All majors must complete the ETS Major Field Test in Mathematics.

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, and 416 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 (24 Credits)****Requirements (12 Credits)**

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 (50-74 Credits)****Core Requirements (18 Credits)**

Students must complete the ETS Major Field Test in Mathematics.

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 (56 Credits)****Core Requirements (18 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mathematics.

**Requirements (13 Credits)**

MATH 336 Intermediate Probability and Statistics II (4)  
 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)

**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, and 416.

**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 (50 Credits)****Core Requirements (18 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 366 Differential Equations (3)  
 MATH 450 Numerical Analysis I (4)  
 MATH 491 Seminar — Mathematics (1-2)  
 MATH 361 Intermediate Analysis I (4)  
 OR MATH 435 Mathematical Statistics I (4)

**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, and 416.

**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 (74 Credits)****Core Requirements (18 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Mathematics.

Students in this emphasis must fulfill all teacher licensure requirements which will add thirty-three credits to the major total.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

**Requirements (17 Credits)**

- 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)

**Restricted Electives (6 Credits)**

Students must take six 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 (24 Credits)****Requirements (18 Credits)**

- 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 Credits)****Requirements (14 Credits)**

This minor is for Elementary Education majors. MATH 303, MATH 304, and MATH 306 are part of the elementary education major and, thus, these courses are not listed among the requirements for this minor:

- MATH 236 Applied Statistics (4)
- OR** MATH 335 Intermediate Probability and Statistics I (3)
- MATH 261 Calculus I (4)
- MATH 262 Calculus II (4)
- MATH 316 Teaching Mathematics in the Middle Grades (3)

**Restricted Electives (6 Credits)**

Students must take two of the following three courses.

- MATH 323 Multi-Variable and Vector Calculus (4)
- MATH 327 Introduction of Linear Algebra (3)
- MATH 385 Foundations of Geometry (3)

**Medical Technology**

*See Biology*

**Multicultural Studies**

Humanities and Multicultural Studies Department

**MacLean 326, (218) 236-2196**

**Chair:** Dieter Berninger

The Humanities and Multicultural Studies Department is the core of a variety of interdisciplinary majors and programs: a B.A. in American Studies (see American Studies); an individualized major in Humanities; a Fine Arts minor; a Humanities minor; an African American Humanities minor; an American Indian Studies minor; a Chicano Studies minor; and a Multicultural Studies minor.

**MINOR IN AFRICAN AMERICAN****HUMANITIES (19 Credits)****Requirements (7 Credits)**

- MCS 210 African American Humanities: Roots (4)
- MCS 211 Contemporary African American Community (3)

**Restricted Electives (12 Credits)**

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

- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)
- HIST 377 African-Americans in U.S. History (3)
- MCS 301 African American Music (3)
- MCS 311 African American Art (2)

- MCS 325 African American Theatre (3)  
 MCS 390 Topics in Multicultural Studies (1-3)  
 MCS 461 Readings: Multicultural Studies (1-3)  
 MCS 372 Dynamics of Prejudice and Oppression (4)  
 OR PHIL 372 Dynamics of Prejudice and Oppression (4)  
 AMST 201 Origins of MC America (4)  
 OR AMST 202 Modern Multicultural America (4)  
 MUS 215 History of Jazz (3)  
 OR MUS 343 Jazz History (2)

**MINOR IN AMERICAN INDIAN STUDIES (18 Credits)**  
**Requirements (9 Credits)**

- MCS 102 The Contemporary American Indian (3)  
 MCS 202 Traditional American Indian Cultures (3)  
 MCS 218 American Indian Belief Systems (3)  
 OR HUM 218 American Indian Belief Systems (3)

**Restricted Electives (9 Credits)**

Students will choose nine elective credits from the following courses. With prior approval from the MCS department, the nine elective credits may include ENGL 248, HIST 333, and/or HIST 311.

- AMST 201 Origins of MC America (4)  
 ANTH 210 Midwest/Plains Prehistory (3)  
 ANTH 315 North American Archaeology (3)  
 MCS 225 Ojibwe Culture (3)  
 MCS 270 Indian Education: North Dakota (2)  
 MCS 332 Indians of the Southwest (3)  
 MCS 372 Dynamics of Prejudice and Oppression (4)  
 MCS 390 Topics in Multicultural Studies (1-3)  
 MCS 461 Readings: Multicultural Studies (1-3)  
 MCS 469 Internship  
 MCS 219 Plains Indian Cultures (3)  
 OR ANTH 219 Plains Indian Cultures (3)

**MINOR IN CHICANO STUDIES (22 Credits)**  
**Requirements (8 Credits)**

- MCS 103 The Contemporary Chicano (3)  
 MCS 203 Chicano Culture (3)  
 MCS 390 Topics in Multicultural Studies (1-3)

**Electives (14 Credits)**

Students shall choose at least 14 semester credits from the courses listed. Spanish 201 and 202, or the equivalent, are strongly recommended as elective choices. 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 Humanities and Multicultural Studies Department.

- ECON 305 The Economics of Poverty, Discrimination, and Inequality (3)  
 HIST 336 History of Mexico (3)  
 MCS 372 Dynamics of Prejudice and Oppression (4)  
 MCS 461 Readings: Multicultural Studies  
 SOC 310 Dominant-Subordinate Group Relations (3)  
 SOC 350 Methods of Social Research (4)  
 SPAN 201 Intermediate Spanish I (4)  
 SPAN 202 Intermediate Spanish II (4)

**MINOR IN MULTICULTURAL STUDIES (22 Credits)**  
**Restricted Electives (16 Credits)**

Students will choose five courses from the six listed below.

- MCS 102 The Contemporary American Indian (3)  
 MCS 103 The Contemporary Chicano (3)  
 MCS 202 Traditional American Indian Cultures (3)  
 MCS 203 Chicano Culture (3)  
 MCS 210 African American Humanities: Roots (4)  
 MCS 211 Contemporary African American Community (3)

**Electives (6 Credits)**

Students will choose six credits of elective courses which may be taken in the following departments: American Studies, Anthropology, Criminal Justice, Economics, History, and Multicultural 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 Humanities and Multicultural Studies Department.

## Multidisciplinary Studies

New Center for Multidisciplinary Studies  
**Murray Commons 206 — (218) 236-2954**  
**Chair:** Rae Offutt

**Faculty:** Richard Bolton, Thomas Dean, Jerilyn Gess, Mary Ann Hanna, Dennis Jacobs, Margaret Klindworth, Rupa Mitra, Thomas Tammaro

Multidisciplinary Studies offers liberal studies courses to meet B.A., B.S., and A.A. graduation requirements. See the Admissions Section of the *Bulletin* for information on The New Center for Multidisciplinary Studies.

**STUDENT LEARNING OUTCOMES:**

Students will demonstrate:

- improved skills in reading, writing, and mathematical problem solving;
- improved critical thinking skills;
- appropriate confidence in their abilities to succeed in college;
- an historical perspective;
- an awareness of ecological concerns;
- the ability to plan and implement appropriate courses of study or to choose other post-secondary alternatives.



## Music

Music Department

**Roland Dille Center for the Arts 102, (218) 236-2101**

**Chair:** David Ferreira

**Faculty:** Ruth Dahlke, Nathan Davis, Theodore DiSanti, David Eyler, Ross Feller, Glenn Ginn, David Gonzol, Henry Gwiazda, Debora Harris, Luke Howard, Terrie Manno, Michael Missiras, Alan Rawson, Mary Roberts, Rodney Rothlisberger, Charles Ruzicka, John Tesch.

### 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. The Performance major allows for a focus 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. The four emphases for this major are Music Business, Computer Music, Digital Imaging/Audio, and 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.

### 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 examined upon entrance for advanced placement in their chosen degree program

### 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.

## PERFORMANCE AND PROFICIENCY REQUIREMENTS

### Primary Performance Medium

All music major programs require students to choose a principal performance medium. The number of required credits of performance study with this medium and the level of proficiency to attain varies with each program.

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 guides 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 apply during their junior year. The jury may deny advancement to upper-division level and recommend further study after which the student may reapply for upper-division status.

### Secondary Performance Medium

The Composition major, Keyboard Performance major, and Music Industry major must also study a secondary performance area for completion of their programs.

### Piano Performance Study and Piano Proficiency

All major programs have a requirement for piano study. All Bachelor of Science and Bachelor of Music majors are required to pass a proficiency exam demonstrating basic keyboard skills. These exams are administered at the end of each semester. Once the piano proficiency is passed, any remaining Piano Performance requirements may be waived. Class Piano does not count as Piano Performance Study.

### Guitar Proficiency

All Music Education majors are required to pass a proficiency exam demonstrating basic guitar techniques. Successful completion of the course MSU 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.

### Recitals

Bachelor of Music Performance majors are required to present two recitals in their principal 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 works during the senior year. Bachelor of Science Music Education majors are required to present a half recital in their principal 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.

### 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 and Analysis

Students must develop:

- an understanding of the common elements and organizational patterns of music and their interaction; and the ability to employ this understanding in aural, verbal, and visual analyses;
- sufficient knowledge of musical forms, processes, and structures to use this knowledge in compositional, performance, scholarly, pedagogical, and historical contexts, according to the requisites of their specializations;
- the ability to place music in historical, cultural, and stylistic contexts.

#### Composition and Improvisation

Students must develop:

- composition and improvisation skills beyond traditional exercises in beginning theory.

#### Repertory and History

- Students must have opportunities through performance and academic studies to work with music of diverse cultural sources, historical periods, and media.
- All music students must be exposed 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 made 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:

Each music major is required to accumulate four approved writing samples before the student makes application for graduation. A portfolio of writing samples will be kept in the student's department file. Specific information on types of examples and procedures for their submission and approval is available in the Music Department Office.

### CORE REQUIREMENTS IN MUSIC

#### Core Requirements (25 Credits)

This common core of courses is required for all baccalaureate degrees in Music.

- MUS 100 Careers in Music (1)
- MUS 101 Music Materials and Literature I (1)
- MUS 102 Music Materials and Literature II (1)
- MUS 103 Music Reading (2)
- MUS 104 Music Theory (3)
- MUS 105 Ear Training I — Rhythm (1)
- MUS 201 Form and Analysis I (2)
- MUS 202 Instrumentation (1)
- MUS 203 Form and Analysis II (2)
- MUS 205 Ear Training II - Melody (1)
- MUS 206 Ear Training III - Harmony (1)
- MUS 209 Survey of Non-Western Music (2)
- MUS 300 Elements of Conducting (1)
- MUS 301 Music of the 20th Century (3)
- MUS 302 Classic/Romantic Music (3)

**B.A. DEGREE IN MUSIC (71 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (12 Credits)**

Students must earn six credits in performance study. At least two credits must be at the 200 level or above. At least one credit must be piano performance. Students must also complete six credits of ensemble classes.

**Restricted Electives (9 Credits)**

Students must complete two of the listed courses. Also, students must earn at least five credits in Music electives. A maximum of two credits can be from performance and ensemble classes (these must be in addition to the performance/ensemble requirements previously listed). (The other electives must be chosen from courses with a literature, theory, or composition focus.) One credit must be an upper level writing-focused Independent Study or Music Topics class.

MUS 340 Baroque Music (2)  
 MUS 341 Middle Ages and Renaissance Music (2)  
 MUS 342 History of Rock/Pop Music (2)  
 MUS 343 Jazz History (2)

**Related Requirements (25 Credits)**

Students must earn at least twenty-five credits in courses with a liberal arts focus in addition to the requirements of the MSU Liberal Studies program. 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 will be maintained in the Music department.

**B.M. DEGREE IN MUSIC INDUSTRY (78-80 Credits)**

Students in this major will select an emphasis in business, computer music, digital imaging/audio, or film/video music. All students must pass a piano proficiency exam.

**EMPHASIS IN MUSIC BUSINESS (79 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (30 Credits)**

In addition to the courses listed, students must earn eight credits, two of which must be at the 200 level in the primary performance area; two credits in a secondary performance area (either the primary or secondary performance area must be piano); and seven credits in ensemble. 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 261 Music Industry Survey I (2)  
 MUS 262 Music Industry Survey II (2)  
 MUS 365 Practicum (1)  
 MUS 381 Electronic Music (3)  
 MUS 461 Senior Seminar: Current Issues in the Music Industry (2)  
 MUS 469 Internship (3-12)

**Restricted Electives (9 Credits)**

Students must earn nine credits in this area. Students must choose at least two courses from MUS 340-343, and at least one course from MUS 364, MUS 481, or MUS 482. In addition, students must earn two credits in non-performance Music electives.

MUS 340 Baroque Music (2)  
 OR MUS 341 Middle Ages and Renaissance Music (2)  
 OR MUS 342 History of Rock/Pop Music (2)  
 OR MUS 343 Jazz History (2)  
 MUS 364 Film and Video Music (3)  
 OR MUS 481 Audio Production (2)  
 OR MUS 482 Music Synthesis (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 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (35 Credits)**

In addition to the courses listed, students must earn eight credits, two of which must be at the 200 level in the primary performance area; two credits in a secondary performance area (either the primary or secondary performance area must be piano); and seven credits in ensemble. At least three credits of internship (MUS 469) and at least one credit of MUS 485 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 261 Music Industry Survey I (2)  
 MUS 262 Music Industry Survey II (2)  
 MUS 365 Practicum (1)  
 MUS 381 Electronic Music (3)  
 MUS 461 Senior Seminar: Current Issues in the Music Industry (2)  
 MUS 469 Internship (3-12)  
 MUS 481 Audio Production (2)  
 MUS 482 Music Synthesis (2)  
 MUS 485 Projects in Audio Production (1-2)

**Restricted Electives (4 Credits)**

Students must choose two courses from MUS 340-343.

MUS 340 Baroque Music (2)

OR MUS 341 Middle Ages and Renaissance Music (2)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

**Related Requirements (14 Credits)**

CSIS 150 Introduction to Computers and Programming I (4)

CSIS 151 Introduction to Computers and Programming II (4)

CSIS 255 Introduction to C/UNIX (3)

CSIS 257 Object Oriented Programming (3)

OR CSIS 345 Analysis and Design of Information Systems (3)

**EMPHASIS IN DIGITAL IMAGING/AUDIO (77 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (35 Credits)**

In addition to the courses listed, students must earn eight credits, two of which must be at the 200 level in the primary performance area; two credits in a secondary performance area (either the primary or secondary performance area must be piano); and seven credits in ensemble. At least three credits of internship (MUS 469) and at least one credit of MUS 485 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 261 Music Industry Survey I (2)

MUS 262 Music Industry Survey II (2)

MUS 365 Practicum (1)

MUS 381 Electronic Music (3)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

MUS 481 Audio Production (2)

MUS 482 Music Synthesis (2)

MUS 485 Projects in Audio Production (1-2)

**Restricted Electives (4 Credits)**

Students must choose two courses from MUS 340-343.

MUS 340 Baroque Music (2)

OR MUS 341 Middle Ages and Renaissance Music (2)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

**Related Requirements (13 Credits)**

CSIS 150 Introduction to Computers and Programming I (4)

TECH 257 Advanced Desktop Publishing (3)

TECH 356 Multimedia Authoring and

Development (3)

TECH 358 Web Authoring and Development (3)

**EMPHASIS IN FILM/VIDEO MUSIC (80 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (33 Credits)**

In addition to the courses listed, students must earn eight credits, two of which must be at the 200 level in the primary performance area; two credits in a secondary performance area (either the primary or secondary performance area must be piano); and seven credits in ensemble. 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 261 Music Industry Survey I 2

MUS 262 Music Industry Survey II (2)

MUS 364 Film and Video Music (3)

MUS 365 Practicum (1)

MUS 381 Electronic Music (3)

MUS 461 Senior Seminar: Current Issues in the Music Industry (2)

MUS 469 Internship (3-12)

**Restricted Electives (6 Credits)**

Students must choose two courses from MUS 340-343.

Students must take either Mus 481 or Mus 482.

MUS 340 Baroque Music (2)

OR MUS 341 Middle Ages and Renaissance Music (2)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 481 Audio Production (2)

OR MUS 482 Music Synthesis (2)

**Related Requirements (16 Credits)**

CSIS 150 Introduction to Computers and Programming I (4)

MC 272 Television Production (3)

MC 372 Television Directing (3)

MC 374 Producing for Television (3)

SPCH 284 Beginning Filmmaking (3)

**B.M. DEGREE IN MUSIC  
PERFORMANCE (83-91 Credits)**

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. All students must pass the piano proficiency exam.

**OPTION IN JAZZ AND STUDIO MUSIC (83 Credits)  
Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (52 Credits)**

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. In addition, students must earn two credits of piano performance study, eight credits in large instrumental ensemble, and four credits in small instrumental ensemble. Four credits of instrumental arranging are required. Students must complete the following courses and must earn at least two credits in MUS 450. A one credit writing-focused Music Topics course (MUS 390) related to the recital repertoire is required.

- 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 Electronic Music (3)
- MUS 390 Music Topics (1-3)
- MUS 433 Jazz Pedagogy (2)
- MUS 472 Instrumental Arranging (2)
- MUS 481 Audio Production (2)

**Restricted Electives (6 Credits)**

Students must choose four credits from the listed courses. The four credits may not be earned in a single course. Any student who wishes to repeat MUS 484, 485, or 486 must first obtain the permission of the department chair. Additionally, students must earn two credits in music electives. The electives may not be performance study or ensemble with primary instrument.

- MUS 340 Baroque Music (2)
- MUS 341 Middle Ages and Renaissance Music (2)
- MUS 342 History of Rock/Pop Music (2)
- MUS 364 Film and Video Music (3)
- MUS 482 Music Synthesis (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 Credits)  
Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (40 Credits)**

Students must earn eighteen credits of performance study on the principal keyboard instrument. At least twelve credits must be at the 300 level or above. Students must also earn 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. Students must complete the following courses and must earn at least two credits in MUS 450.

- MUS 340 Baroque Music (2)
- MUS 431A Keyboard Pedagogy I (2)
- MUS 431B Keyboard Pedagogy II (1)
- MUS 450 Student Recital (1)

**Restricted Electives (18 Credits)**

Students must earn four 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 seven credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). Students must complete three credits of music electives which cannot be performance study or ensemble with the principal instrument.

A one credit writing-focused music topics course (MUS 390) related to the recital repertoire will be applied to one of the elective areas outlined above. Additionally, students must complete one course from MUS 341-343 and one course from MUS 375-377.

- MUS 341 Middle Ages and Renaissance Music (2)
  - OR MUS 342 History of Rock/Pop Music (2)
  - OR MUS 343 Jazz History (2)
- MUS 375 Band Conducting (2)
  - OR MUS 376 Orchestral Conducting (2)
  - OR MUS 377 Choral Conducting (2)

**OPTION IN VOICE PERFORMANCE (91 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (43 Credits)**

In addition to the courses listed below, students must earn eighteen credits of voice performance study. At least twelve credits must be at the 300 level or above.

Students must also complete four credits of piano performance study, seven credits in large vocal ensemble, and one credit in small vocal ensemble. Students must also earn three credits in elective ensemble courses (no restriction). Students must complete at least two credits of MUS 450.

MUS 191 Diction (2)

MUS 340 Baroque Music (2)

MUS 341 Middle Ages and Renaissance Music (2)

MUS 377 Choral Conducting (2)

MUS 450 Student Recital (1)

**Restricted Electives (15 Credits)**

Students must earn four elective credits in music courses with non-performance focus but which are related to the voice and its repertoire, history, and/or pedagogy (one of these credits must be an Independent Study). Students must earn eight credits of music electives with focus in theory, history, literature, or conducting (Independent Study with this focus is acceptable). Students must also earn three credits of music electives which cannot be vocal performance study or vocal ensembles. A one credit writing-focused Music Topics course (MUS 390) related to the recital repertoire will be applied to one of the elective areas outlined above.

**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 Credits)****Core Requirements (25 Credits)**

Students must complete all courses listed under "Core Requirements in Music."

**Requirements (38 Credits)**

Students must earn eighteen credits of performance study on the principal instrument, at least twelve of which must be at the 300 level or above. In addition, students must earn four credits of piano performance study, eight credits in large instrumental ensemble, one credit in small instrumental ensemble, and three credits of elective ensemble (no restriction). Students must complete the following courses and must earn at least two credits in MUS 450.

MUS 340 Baroque Music (2)

MUS 450 Student Recital (1)

**Restricted Electives (20 Credits)**

Students must earn six credits of music electives with non-performance focus but which are related to the principal instrument and its repertoire, history, and/or pedagogy (one credit must be an Independent Study). Students must also earn seven credits of music electives with focus in theory, history, literature, or conducting (Independent Study is acceptable with this focus). Students are required to earn three credits of music electives which cannot be performance study or ensemble with principal instrument. A one-credit writing-focused Music Topics course (MUS 390) related to the recital repertoire will be applied to one of the elective areas outlined above. Students must complete one course from MUS 341-343 and one course from MUS 375-376.

MUS 375 Band Conducting (2)

OR MUS 376 Orchestral Conducting (2)

MUS 341 Middle Ages and Renaissance Music (2)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

**OPTION IN COMPOSITION (83 Credits)****Core Requirements (25 Credits)**

Students must complete all courses listed under "Core Requirements in Music."

**Requirements (45 Credits)**

Students must earn 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 the secondary performance area (either the primary or secondary performance area must be piano). In addition, students must earn six credits in ensembles, and complete the listed courses.

MUS 340 Baroque Music (2)

MUS 377 Choral Conducting (2)

MUS 381 Electronic Music (3)

MUS 450 Student Recital (1)

MUS 471 Orchestration (2)

MUS 482 Music Synthesis (2)

**Restricted Electives (13 Credits)**

Students must earn six credits of music electives with focus in theory, history, literature, or conducting (one credit must be an Independent Study). Students must also earn three credits of music electives. These credits cannot be in composition study; however one credit can be an additional ensemble. A one credit writing-focused Music Topics course (MUS 390) related to the composition recital will be applied to one of the elective areas outlined above. Students must complete one course from MUS 341-343 and one course from MUS 375-376.

MUS 341 Middle Ages and Renaissance Music (2)

OR MUS 342 History of Rock/Pop Music (2)

OR MUS 343 Jazz History (2)

MUS 375 Band Conducting (2)

OR MUS 376 Orchestral Conducting (2)

**B.S. DEGREE IN MUSIC: TEACHING (99-101 Credits)**

Students choose one of the teaching options for Music Education: Instrumental or Vocal. Students in this major must also pass piano and guitar proficiency exams and present a recital. A Student Teaching Qualifying Exam, taken the semester prior to application for Student Teaching, must be passed before a teaching assignment is arranged. All teacher licensure requirements must be met. Often students choose one semester beyond four years or enrollment in one or more summer sessions to complete this degree. In addition to the listed courses, students must complete the licensure requirements which will add thirty-three credits to the major total.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

**OPTION IN INSTRUMENTAL MUSIC****EDUCATION (97 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (35 Credits)**

Students must earn twelve credits of performance study on the principal instrument. At least two credits must be at the 300 level or above. Students must also earn seven credits in instrumental ensembles. A minimum of two credits must be in small ensembles and a minimum of two credits must be in large ensembles. In addition, students must earn two credits in piano performance study. Students must complete the following courses:  
 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 (2)  
 MUS 340 Baroque Music (2)  
 MUS 450 Student Recital (1)

**Restricted Electives (4 Credits)**

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. Students also must earn one credit in an upper level writing-focused Independent Study or Music Topics class. Students must complete one of the following classes:  
 MUS 375 Band Conducting (2)  
 OR MUS 376 Orchestral Conducting (2)

**OPTION IN VOCAL MUSIC EDUCATION (101 Credits)****Core Requirements (25 Credits)**

Students must complete the courses listed under "Core Requirements in Music."

**Requirements (38 Credits)**

Students must earn twelve credits in voice performance study. At least two credits must be at the 300 level or above. Students must also earn four credits in piano performance study and seven credits of vocal ensembles. Students must complete all the following courses:  
 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 340 Baroque Music (2)  
 MUS 341 Middle Ages and Renaissance Music (2)  
 MUS 377 Choral Conducting (2)  
 MUS 450 Student Recital (1)

**Restricted Electives (1 Credits)**

Students must complete one credit of an upper level writing-focused Independent Study or Music Topics class.

**Related Requirements (4 Credits)**

Students are expected to complete at least one semester of foreign language study.

**MINOR IN MUSIC (24 Credits)****Requirements (16 Credits)**

In addition to the listed courses, students must earn four credits of performance study. At least one of the performance credits must be at the 200 level or above.

Students must also earn four credits of ensemble study. Total credits from the Required and Elective sections must total at least 24.

MUS 110 Musicianship for Non-Majors (2)

MUS 111 The Art of Listening (3)

MUS 210 Survey of Western Music (3)

**Restricted Electives (2 Credits)**

Students must complete one of the following courses:

MUS 215 History of Jazz (3)

MUS 216 World Music Survey (3)

MUS 217 Pop/Rock Music for Non-Majors (2)

MUS 240 American Music (2)

**Electives (5 Credits)**

Students must earn five to six credits in Music electives.

**STUDENT LEARNING OUTCOMES**

The student should demonstrate:

- a perception of the client as a total personality (biological, psychological, social, cultural);
- the ability to problem-solve and make decisions or judgements for nursing actions;
- the ability to use teaching/learning concepts and strategies in working with clients, and utilizes research findings related to area of practice;
- ability to interact and clearly communicate with others;
- critical thinking in analysis and synthesis course papers;
- safe, competent, nursing care to 'well' and 'ill' families;
- assessment and planning of health care for groups and communities;
- self-awareness on both a personal and professional level;
- increased self-awareness at completion of the nursing program;
- the ability to synthesize principles, theories, and concepts from nursing, the natural and social sciences, arts and humanities to enhance nursing practice;
- improvement in critical thinking skills;
- the ability to use critical and analytical thinking in deliberative decision-making;
- the ability to provide nursing care to increasingly complex and diverse client systems;
- the development of goals for realizing one's potential as an individual, professional, and member of society.

**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.N. IN NURSING (40 Credits)****Requirements (36 Credits)**

NURS 305 The Contemporary Professional Nurse (3)

NURS 315 Client Education in Nursing (2)

NURS 318 Ethics in Nursing (2)

NURS 325 Holistic Client Systems (3)

NURS 346 Community Based Nursing (3)

NURS 346L Community Based Nursing Clinical (3)

NURS 350 Advanced Pathophysiology (3)

NURS 362 Transcultural Nursing (2)

NURS 420 Gerontological Nursing (2)

NURS 430 Research in Nursing (3)

NURS 460 Nursing Management/Leadership (3)

NURS 460L Nursing Management/ Leadership Laboratory (1)

NURS 475 Nursing Preceptorship (6)

**Nursing****Murray Commons, (218) 236-2693**

**Director:** Barbara Vellenga

**Faculty:** Jane Bergland, Jane Giedt, Donna Heald, Barbara Matthees, Victoria Teske.

The upper-division nursing program is designed for registered nurses who want to earn the degree, Bachelor of Science in Nursing. The program requires 40 credits in upper-division nursing and can be completed in three semesters.

Admission to the nursing program is limited to individuals who are licensed registered nurses or who are graduate nurses with license pending. Applicants must have completed 21 liberal studies credits before entering the program.

Graduation requirements include 40 upper-division nursing credits, 45 liberal studies credits, lower division nursing credits and elective credits for a total of 128 credits. Credit for previous nursing coursework is given.



**Electives (4 Credits)**

Two courses valued at two credits each from the following courses:

- NURS 403 Sexuality: A Nursing Perspective (2)
- NURS 405 Dynamics of Oncology Nursing (2)
- NURS 407 Nursing Care of the Person with HIV/AIDS (2)
- NURS 409 Adaptation to Chronic Illness (2)
- NURS 411 Women, Nursing, and Health (2)
- NURS 413 Nursing and Health Promotion in Special Populations (2)
- NURS 415 The Changing Family: A Nursing Perspective (2)
- NURS 417 Holistic Nursing (2)
- NURS 490 Topics in Professional Nursing
- NURS 497 Independent Study

## Paralegal

Accounting Department

**Center for Business 115, (218) 236-2587**

**Chair:** George Sanderson

**Program Coordinator:** Larry Nordick

**Faculty:** Judy Streich, Deborah Kukowski

The Paralegal Program is a professional four-year major resulting in a Bachelor of Science degree. The program is guided by a Paralegal Committee composed of university and community members. To complete the major, students must meet the requirements of the Core, the Restricted Electives, and at least one of the four Areas of Emphasis.

**STUDENT LEARNING OUTCOMES:**

Students should demonstrate:

- knowledge of a wide variety of substantive and procedural law, such as contracts, torts, family law, business organizations, civil and criminal litigation, bankruptcy, probate and estate planning, real property, public benefits, and administrative law;
- ability to identify and analyze legal issues;
- ability to research the law using the full range of law reference materials, including computerized legal research;
- ability to draft pleadings, legal memoranda, and briefs based on research and analysis of legal issues;
- effective oral and written communication skills;
- a full understanding of, and appreciation for, the rules of legal ethics, with emphasis on their applicability to paralegals;
- an understanding of the roles and relationships within a legal services delivery team;
- skills in obtaining information through interviewing and investigation.

**UPPER LEVEL WRITING REQUIREMENT:**

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

**B.S. DEGREE IN PARALEGAL (52 Credits)****Core Requirements (28 Credits)**

The core is required of all students who major in one of the Paralegal emphases: Civil Litigation, Criminal Litigation, Probate and Real Estate, or Public Interest.

- ACCT 205 Environment of Law (4)
- PARA 125 Introduction to Paralegal (2)
- PARA 250 Legal Research and Writing I (3)
- PARA 251 Legal Research and Writing II (3)
- PARA 325 Interviewing (3)
- PARA 360 Law Office Systems (3)
- PARA 375 Legal Ethics (3)
- PARA 425 Advanced Legal Research and Writing (3)
- PARA 469 Internship (4-12)

**Restricted Electives (15 Credits)**

This secondary core of restricted electives is required of all students who major in one of the Paralegal emphases: Civil Litigation, Criminal Litigation, Probate and Real Estate, or Public Interest. Students must earn at least fifteen credits from the secondary core.

- ACCT 130 Fundamentals of Accounting
- ACCT 306 Business Entities and Property (3)
- ACCT 307 Commercial Transactions (3)
- PARA 310 Civil Procedure (3)
- PARA 320 Domestic Relations (3)
- PARA 331 Debtor-Creditor and Bankruptcy Law (4)
- PARA 340 Evidence (3)
- PARA 380 Real Property Law (4)
- PARA 435 Personal Injury (3)

**EMPHASIS IN CIVIL LITIGATION (52 Credits)****Core Requirements (28 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 (9 Credits)**

Students in Civil Litigation must take PARA 410 and PARA 340, and one additional course from those listed. Students are encouraged to take as many of the courses as possible, and to try to take at least one course from each of the other major areas to achieve diversity of training. Any courses used to satisfy this area may not be applied to the Restricted Electives section.

- PARA 331 Debtor-Creditor and Bankruptcy Law (4)
- PARA 340 Evidence (3)
- PARA 410 Litigation Methods (3)
- PARA 435 Personal Injury (3)

**Restricted Electives (15 Credits)**

Students need to earn at least fifteen credits from the courses listed as "Restricted Electives" under the B.S. Degree in Paralegal.

**EMPHASIS IN CRIMINAL LITIGATION (52 Credits)**  
**Core Requirements (28 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 (9 Credits)**

Students in Criminal Litigation must take PARA 410 and PARA 340, and one additional course from the following list. Majors are encouraged to take as many of the courses as possible and to try to take at least one course from each major area to achieve diversity of training. Any courses taken to satisfy this area may not be used to satisfy requirements in the Restricted Electives section.

CJ 232 Criminal Law (3)

CJ 430 Minnesota Criminal Law and Procedure (4)

PARA 340 Evidence (3)

PARA 410 Litigation Methods (3)

**Restricted Electives (15 Credits)**

Students need to earn at least fifteen credits from the courses listed as “Restricted Electives” under the B.S. Degree in Paralegal.

**EMPHASIS IN PROBATE AND  
 REAL ESTATE (52 Credits)**

**Core Requirements (28 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 (9 Credits)**

Students in Probate and Real Estate must take PARA 405, and any two other courses from the following list. Students are encouraged to take as many of the courses as possible and to try to take at least one course from each of the major areas to achieve diversity of training. Any courses taken to satisfy this area may not be applied to the requirements of the Restricted Electives section.

ACCT 340 Introduction to Taxation (3)

ACCT 441 Individual Income Tax (3)

PARA 380 Real Property Law (4)

PARA 405 Estate Planning and Probate Methods (3)

PARA 446 Estate, Gift and Trust Taxation (3)

**Restricted Electives (15 Credits)**

Students need to earn at least fifteen credits from the courses listed as “Restricted Electives” under the B.S. Degree in Paralegal.

**EMPHASIS IN PUBLIC INTEREST (52 Credits)**  
**Core Requirements (28 Credits)**

Students need to 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 (9 Credits)**

Students in Public Interest must take PARA 415 and at least two additional courses from the following list. Students are encouraged to take as many of the courses as possible and to try to take at least one course from each of the major areas to achieve diversity of training. Any courses used to satisfy this area may not be applied toward the Restricted Electives section.

PARA 345 Public Benefits I (4)

PARA 346 Public Benefits II (4)

PARA 415 Public Law Methods (3)

PARA 430 Administrative Advocacy (3)

**Restricted Electives (15 Credits)**

Students must earn at least fifteen credits from the courses listed as “Restricted Electives” under the B.S. Degree in Paralegal.

## Pharmacy

Chemistry Department

Hagen 411, (218) 236-2136

**Pre-Pharmacy Advisors:** Shawn G. Dunkirk and  
 Craig Jasperse

MSU offers courses that enable students interested in pharmacy as a profession to complete their first two to three years at MSU 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 one of the pre-pharmacy advisors.

## Philosophy

Philosophy Department  
**Bridges 359, (218) 236-2478**

**Chair:** Theodore Gracyk

**Faculty:** Mark Chekola, Chang-Seong Hong,  
 David Myers, Tracy Scholl

The study of philosophy develops the ability to solve problems, communicate, organize ideas and issues, and analyze complex data. It is a reasoned pursuit of fundamental truths, a quest of 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 capacity to see the world from the perspective of other individuals and cultures; enhances one's ability to perceive the relationships among various field 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 flexibility of the Moorhead State University curriculum makes it possible to start a major in philosophy sometimes 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, political or social philosophy (pre-business), 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 or public relations. Most fields employ people educated in philosophy. Moorhead State's Philosophy Department guides students to become clear thinkers and good writers, skills valued in all professions. The generalist approach of philosophy give graduates the ultimate in flexibility, the capacity 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

Students should demonstrate the ability 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 materials read;
- outline readings.

#### Writing Philosophical Essays

Student should demonstrate the ability 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;
- develop and elaborate on an idea or thesis.

#### Philosophical Discussion

Students should demonstrate the ability to:

- keep comments directed to the issues being discussed, and avoid irrelevant material;
- show respect for others, and for their opinions;
- attempt to understand correctly the opinions of others;
- make effective and clear oral presentations;
- show willingness to change their mind in reaction to points raised in discussions;
- present arguments for their opinions;
- have confidence to express and debate ideas;
- be more concerned with finding the truth than with scoring points or impressing others.

#### Philosophical Knowledge

Students should demonstrate knowledge of:

- major figures and developments in the history of western philosophy, specifically including ancient Greek philosophy and the 17<sup>th</sup> century European philosophy and others;
- major subject areas in philosophy, specifically including ethics and elementary symbolic logic, plus several others;
- some major issues in philosophy, being aware of the variety of theories and arguments related to that issue;

- different approaches to philosophy and alternative philosophical styles, especially those outside the standard Western tradition.

### Evaluation and Constructing Philosophical Arguments

Students should demonstrate the ability to:

- identify and clearly express conclusions and premises of arguments;
- find unstated premises;
- explore the implications of premises and conclusions;
- assess the logical strength of arguments;
- assess the plausibility of premises;
- compare arguments with alternatives;
- recognize and avoid fallacies;
- assess the credibility of sources used.

### Philosophical Research

Students should demonstrate the ability 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 (4 Credits)

Students must earn at least four credits from the following list of courses, and will need departmental approval for application of PHIL 490 and/or PHIL 492.

- PHIL 304 Medieval Philosophy (3)
- PHIL 307 19th Century Philosophy (3)
- PHIL 490 Topics in Philosophy (1-3)
- PHIL 492 Major Philosophers (1-3)

#### Electives (16 Credits)

Students will need to earn at least sixteen credits of electives, ten 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 courses.

Students will need departmental approval for application of PHIL 490 and/or PHIL 492.

- 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 490 Topics in Philosophy (1-3)
- 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.

## Physical Education

Health-Physical Education Department

Nemzek 106, (218) 236-2445

Chair: Richard Bynum

### STUDENT LEARNING OUTCOMES:

The following student outcomes for the B.A. program are consistent with recommendations of the American College in Sports Medicine.

The student should be able to demonstrate:

- an understanding of human functional anatomy and biomechanics;
- knowledge of the role of biomechanical factors in the development of injuries;
- ability to describe common exercise movements and identify the major muscle groups involved in each.
- a knowledge of basic exercise physiology;
- an understanding of the basic principles involved in muscular strength, endurance, and flexibility training;
- an understanding of the special problems of human development and aging and the effect of the aging process on the structure and function of the human organism at rest, during exercise, and recovery;
- ability to list several motivational techniques used to promote behavior change in the initiation, adherence or return to exercise and other health lifestyle behaviors;
- an understanding of the basic behavioral psychology, group dynamics, and learning techniques;
- identify risk factors which may require consultation with medical or allied health professionals prior to participation in physical activity;

- and understanding of the pathophysiology of the major chronic diseases and how these processes are influenced by physical activity;
- and identify appropriate techniques for health appraisal and use of fitness evaluations;
- competence in basic life support and implementation of first aid procedures which may be necessary during or after exercise;
- an understanding of the risks associated with exercise participation and knowledge of emergency procedures, first aid, and evacuation plans;
- an understanding of the concepts of exercise;
- a knowledge of class organization and exercise leadership;
- the ability to design and implement individualized and group exercise programs;
- an understanding of the principles of weight management and nutrition;
- an understanding of his/her role in administration and program management.

Students completing the B.S. (teaching) program should be able to demonstrate:

- knowledge and skill regarding fundamental motor skills, sports and games, lifelong leisure activities, dance and rhythms, and exercise and health-related fitness so they can plan, implement and evaluate physical education programs;
- knowledge about human movement from physiological, anatomical, mechanical, motor behavioral, developmental, historical, sociological, psychological, and philosophical perspectives relevant to physical education in the schools such that they can plan, implement, and evaluate physical education programs;
- pedagogical knowledge regarding the role of physical education in schools and society, one's personal philosophy of physical education, socialization of physical education teachers, adapted physical education, and physical education programming so that they can plan, implement and evaluate physical education programs;
- skill and knowledge regarding planning the teaching-learning process, management of physical education classes, analysis of motor performance, assessment of students in physical education, and evaluating and teaching learning process.

#### **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 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.

#### **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.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

AT 220 Prevention and Care of Athletic Injuries (2)  
 HLTH 125 First Aid and CPR (2)  
 PE 191 Activities: Dance (2)  
 PE 192 Activities: Gymnastics (1)  
 PE 193 Activities Course: Elementary School (2)  
 PE 194 Activities Course: Non-Traditional (1)  
 PE 200 Foundations of Physical Education (3)  
 PE 211 Concepts of Physical Fitness (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 360 Elementary Methods in Physical Education (3)  
 PE 361 Secondary Methods in Physical Education (3)  
 PE 420 Biomechanics (3)  
 PE 421 Physiology of Exercise (3)  
 PE 452 Adapted Physical Education (3)  
 PE 474 Tests and Measurements in Physical Education (3)  
 PE 495 Administration of Physical Education (3)  
 PE 160 Swimming I (1)  
**OR** PE 161 Swimming II (1)

#### **Electives (4 Credits)**

In addition to the courses listed below, students must earn two credits from PE 112, PE 114, PE 116, or PE 124.

**EMPHASIS IN FITNESS AND  
SPORT SCIENCE (55 Credits)****Core Requirements (36 Credits)**

This core is required of all students who major in this emphasis. All students in this field must also complete a nineteen credit concentration in fitness or sport science. Students in this emphasis must earn at least two credits in PE 469.

- AT 220 Prevention and Care of Athletic Injuries (2)
- HLTH 125 First Aid and CPR (2)
- HLTH 305 Introduction to Nutrition (3)
- HLTH 330 Disease Prevention (2)
- PE 211 Concepts of Physical Fitness (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)

**CONCENTRATION IN FITNESS (19 Credits)  
Requirements (19 Credits)**

Students who choose the concentration in Fitness should complete nineteen credits from the following courses. Students should choose their courses in close consultation with their academic advisor.

- ACCT 230 Principles of Accounting I (3)
- HLTH 110 Personal Health (3)
- HLTH 200 Introduction to Health Education and Health Promotion (2)
- MGMT 360 Principles of Management (3)
- MKTG 310 Principles of Marketing (3)
- PE 100 Aerobic Dance (1)
- PE 102 Weight Training I (1)
- PE 364 Teaching Aerobic Dance (3)
- PE 474 Tests and Measurements in Physical Education (3)

**Recommended (0 Credits)**

The following courses are recommended for students in the fitness or sports science concentrations, but are not required.

- CSIS 103 Computer Applications for Business I (3)
- ENGL 387 Technical Report Writing (4)
- SPCH 100 Speech Communication (3)

**CONCENTRATION IN SPORTS SCIENCE (19 Credits)  
Requirements (19 Credits)**

Students should choose their elective courses in close consultation with their academic advisor.

- BIOL 323 Human Anatomy (4)
- BIOL 349 Human Physiology (4)
- CHEM 110 Fundamentals of Chemistry (4)
- CHEM 180 Introduction to Organic and Biochemistry (4)
- MATH 236 Applied Statistics (4)
- PHYS 111 Elementary Physics I (4)

**Recommended (0 Credits)**

The following courses are recommended but not required.

- CSIS 103 Computer Applications for Business I (3)
- ENGL 387 Technical Report Writing (4)
- SPCH 100 Speech Communication (3)

**MINOR IN PHYSICAL EDUCATION:****TEACHING (26 Credits)****Requirements (26 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.

- PE 191 Activities: Dance (2)
- PE 193 Activities Course: Elementary School (2)
- HLTH 125 First Aid and CPR (2)
- PE 192 Activities: Gymnastics (1)
- 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 452 Adapted Physical Education (3)

### MINOR IN COACHING (19 Credits)

#### Requirements (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).

AT 220 Prevention and Care of Athletic Injuries (2)

HLTH 125 First Aid and CPR (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)

PE 379 Coaching Volleyball (3)

### LICENSURE IN DEVELOPMENTAL AND ADAPTED PHYSICAL EDUCATION (24 Credits)

#### Requirements (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 D/APE (3)

PE 454 Curriculum in Developmental/Adapted  
Physical Education (3)

SPED 412 Mental Retardation (3)

SPED 461 Learning Disabilities (3)

SPED 471 Behavior and Environment Management (3)

PE 456L Lab Curriculum and Assessment  
for Severely Handicapped (1)

PE 469 Internship (2-12)

### Physical Science (Teaching)

See Chemistry

### Physics and Astronomy

Physics-Astronomy Department

Hagen 313, (218) 236-2141

Chair: Gerald Hart

Faculty: Vijendra Agarwal, Matthew Craig,  
Roger Sipson, David Weinrich, Linda Winkler, Walter  
Worman,

The Department of Physics/Astronomy offers a Bachelor's Degree in Physics. The physics major prepares students for a wide variety of careers based on an undergraduate degree and also prepares students who plan on attending graduate or professional schools. The major strengths of the physics program include its emphasis on active learning using computers as tools for data collection and analysis, undergraduate research and internship opportunities.

The Physics/Astronomy Department also allows students to choose several options to match their priorities and goals. These flexible and practical options are designed to maximize student preparation for careers for their choice. The department chair will be happy to provide information about these options.

#### Dual Degree Option (Physics and Engineering)

An option involving completion of a Bachelor of Science in Physics at Moorhead State University and a Bachelor of Science in Mechanical, Civil, or Electrical Engineering at the University of Minnesota is available. This curriculum has been designed so that students can complete both programs in a total of five years. After successful completion of the first three years of study at Moorhead State University, the remaining course work is completed at the Institute of Technology at the University of Minnesota. The Chair of the Physics Department and the Pre-engineering Advisor will work with students to design a curriculum to be taken at the two institutions to fulfill the requirements for both degrees. Other physics major/minor combinations are also possible.

#### 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;
- ability to apply the computer to physics problem solving and modeling;
- 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 (67 Credits)****Requirements (33 Credits)**

Students may substitute PHYS 111 and 112, plus an approved two credit elective, for PHYS 200 and 201.

PHYS 200 General Physics I (5)  
 PHYS 201 General Physics II (5)  
 PHYS 305 Experimental Physics I (1)  
 PHYS 306 Experimental Physics II (1)  
 PHYS 322 Elementary Modern Physics (4)  
 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 455 Senior Project (2)

**Related Requirements (19 Credits)**

ENGL 387 Technical Report Writing (4)  
 MATH 261 Calculus I (4)  
 MATH 262 Calculus II (4)  
 MATH 323 Multi-Variable and Vector Calculus (4)  
 MATH 366 Differential Equations (3)

**Electives (15 Credits)**

Students must earn twelve elective credits in Physics at the 300 level or higher.

**EMPHASIS IN BUSINESS (82 Credits)****Requirements (48 Credits)**

Students may substitute PHYS 111 and 112, plus an approved elective, for PHYS 200 and 201.

ACCT 205 Environment of Law (4)  
 ACCT 230 Principles of Accounting I (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 5  
 PHYS 201 General Physics II 5  
 PHYS 305 Experimental Physics I (1)  
 PHYS 306 Experimental Physics II (1)  
 PHYS 322 Elementary Modern Physics (4)  
 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 455 Senior Project (2)

**Restricted Electives (15 Credits)**

In addition to the courses listed above, student must earn an additional 12 credits in physics at the 300 level or higher, 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)**

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 (16 Credits)**

Students may substitute PHYS 111 and 112, plus an approved two credit elective, for PHYS 200 and 201.

PHYS 200 General Physics I 5  
 PHYS 201 General Physics II 5  
 PHYS 305 Experimental Physics I (1)  
 PHYS 306 Experimental Physics II (1)  
 PHYS 322 Elementary Modern Physics (4)

**Electives (8 Credits)**

Students must earn eight elective credits in Physics courses at the 300 level or higher.

**MINOR IN PHYSICS: TEACHING (20 Credits)****Requirements (18 Credits)**

All teacher licensure requirements must be completed to earn this minor. Students may substitute PHYS 111 and 112, plus an approved two credit elective, for PHYS 200 and 201.

PHYS 200 General Physics I 5  
 PHYS 201 General Physics II 5  
 PHYS 305 Experimental Physics I (1)  
 PHYS 322 Elementary Modern Physics (4)  
 PHYS 350 Computational Methods for Physical Science (3)

**Electives (2 Credits)**

Students must earn at least two credits in Physics electives at the 300 level or higher.



**MINOR IN ASTRONOMY (28 Credits)****Requirements (10 Credits)**

AST 102 Solar System Astronomy (3)  
**OR** AST 104 Stellar Astronomy (3)  
 AST 380 Celestial Mechanics (2)  
 AST 390 Projects in Advanced Astronomy (2)  
 AST 410 Astrophysics (2)

**Related Requirements (18 Credits)**

Students may substitute PHYS 111 and 112, plus an approved two credit elective, for PHYS 200 and 201.  
 PHYS 200 General Physics I 5  
 PHYS 201 General Physics II 5  
 PHYS 322 Elementary Modern Physics (4)  
 PHYS 330 Intermediate Mechanics (4)

## Political Science

Political Science Department  
 MacLean 362, (218) 236-2942

**Chair:** Philip Baumann

**Faculty:** Andrew Conteh, James Danielson,  
 Barbara Headrick, 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 (70 Credits)****Requirements (24 Credits)**

All students must take at least one senior seminar.  
 POL 120 American National Government and Politics (3)  
 POL 160 International Relations (3)  
 POL 210 Introduction to Political Science (3)  
 POL 310 Political Science Research Methods (3)  
 POL 315 Political Thought (3)  
 POL 490 Senior Seminar in Political Science (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)

**Restricted Electives (7 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 340 or (3) MATH 236 and MATH 238.

**Related Requirements (24 Credits)**

Students must take at least two courses in at least two of the following areas: American Studies or Multicultural Studies, Anthropology or Sociology, Economics, Geography, History, Mass Communications or Speech, Philosophy, and Psychology. Related requirement electives must total at least 24 credits.

**Electives (15 Credits)**

Students must take sufficient electives in Political Science courses to bring the total Political Science credits to 39.

**MINOR IN POLITICAL SCIENCE (21 Credits)****Requirements (6 Credits)**

POL 120 American National Government and Politics (3)  
 POL 210 Introduction to Political Science (3)

**Electives (15 Credits)**

Students must earn at least fifteen credits of Political Science electives, nine of which must be at the 300 level or above.

## Psychology

Psychology Department

**Bridges 360, (218)236-2802**

**Chair:** Gary Nickell

**Faculty:** Magdalene Chalkia, Derick Dalhouse, Ernest W. Hallford, Richard Kolotkin, Olivia Melroe, Elizabeth Nawrot, Margaret Potter, Phillip Rice, Lisa Stewart, Christine Smith.

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 (43 Credits)

#### Requirements (19 Credits)

- PSY 113 General Psychology (3)
- PSY 131 Introductory Psychology Laboratory (1)
- PSY 202 Developmental Psychology (3)
- PSY 231 Psychological Statistics and Methodology I (3)
- PSY 232 Psychological Statistics and Methodology II (3)
- PSY 261 Personality (3)
- PSY 481 Seminar in Psychology (3)

#### Restricted Electives (15 Credits)

Students must take at least three courses from the 300 level classes listed below and two courses from the 400 level classes listed below.

- PSY 320 Social Psychology (3)
- PSY 342 Learning and Memory (3)
- PSY 345 Physiological Psychology (3)
- PSY 348 Cognition and Perception (3)
- PSY 420 Experimental Social Psychology (3)
- PSY 442 Experimental Learning (3)
- PSY 445 Experimental Physiological Psychology (3)
- PSY 448 Experimental Cognition and Perception (3)
- PSY 449 Experimental Topics in Psychology (3)

#### Electives (9 Credits)

Students must take at least nine elective credits in Psychology courses, six of which must be at the 300 level or above.

### MINOR IN PSYCHOLOGY (25 Credits)

#### Requirements (10 Credits)

With departmental approval, students may substitute MATH 134 or SOC 350 for PSY 231.

- PSY 231 Psychological Statistics and Methodology I (3)
- PSY 113 General Psychology (3)
- PSY 131 Introductory Psychology Laboratory (1)
- PSY 202 Developmental Psychology (3)
- OR PSY 261 Personality (3)

#### Restricted Electives (6 Credits)

Students must take two of the following courses.

- PSY 320 Social Psychology (3)
- PSY 342 Learning and Memory (3)
- PSY 345 Physiological Psychology (3)
- PSY 348 Cognition and Perception (3)

#### Electives (9 Credits)

Nine elective credits in Psychology are required. At least six of the nine must be at the 300 or 400 level.

## Public Relations

*See Mass Communications*

## Science

Students may obtain a B.S. (Teaching) degree in Life Science or in Physical Science. 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 Biology for Life Science and Chemistry for Physical Science. These licenses are in effect for students who will graduate prior to September 1, 2001.

## Secondary and Kindergarten—Grade 12 Education

Secondary and Kindergarten—Grade 12 Education Office  
**Lommen 212, (218) 236-2217**

**Director:** Mary Worner

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

### Areas of Study

Kindergarten through Grade 12 disciplines include Art, Music, and Physical Education. Secondary Education disciplines include the majors of English, Theatre Arts, Health, Mathematics, Life Science, Physical Science, Spanish, and Social Studies.

### Secondary/K-12 Requirements

Students interested in obtaining licensure to teach Secondary/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

1. Complete 100 and 200 level education core courses with grade of "C" or higher in each course;
2. Liberal Studies GPA of 2.25;
3. Cumulative GPA of 2.5;
4. Take the pre-Professional Skills Tests (PPST);
5. Submit application for admission to teacher Education.

### Student Teaching Requirements

1. Admission and Retention in Teacher Education (SARTE) including a cumulative GPA of 2.5;
2. GPA of 2.5 in education core courses with grade of "C" or higher in each course;
3. Major GPA of 2.5;
4. Complete program requirements in major, including methods courses;
5. Submit application for student teaching by posted deadline.

### Licensure Requirements

1. Complete program requirements including the sequence of field experiences;
2. Pass the Pre-Professional Skills Tests (PPST);
3. Submit application for licensure.

### Performance Outcomes

The following performance outcomes are identified as fundamental to the teacher education program at MSU.

MSU 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.

### Core Requirements (33 Credits)

**These requirements are for licensure in Minnesota after September 1, 2001. Consult with your advisor if applying for licensure prior to this date.**

- 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 America (3)
- SPCH 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)

## Social Studies

History Department

MacLean 302, (218)236-2812

**Program Coordinators:** Steven Hoffbeck, Mary Worner

Successful completion of the Social Studies major leads to certification from the State of Minnesota to teach in grades 6 through 12.

The major has four components:

1. Core requirements, also known as distribution requirements. These courses expose majors to the various disciplines that comprise Social Studies. All students must complete the 28-credit requirement listed below.
2. Emphasis. Majors must choose one discipline as their emphasis. Requirements for each discipline are listed below.
3. Secondary emphasis. Majors must choose one discipline as their secondary concentration. Concentration requirements for each discipline are listed below.
4. Teacher licensure requirements. These requirements are common to all secondary education majors and are listed under Secondary Education.

Students should carefully study and understand all of these components and choose their course of study in consultation with their advisor. In selecting primary and secondary emphases, students should consider their own interests and aptitudes and the needs of the job market in secondary schools. While History is the foundation of Social Studies in the schools and is the most frequently taught subject in Social Studies, other areas are also taught at the secondary level, often depending on the size of the school. In Minnesota, high schools most 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.

**SOCIAL STUDIES (90-96 Credits)**  
**B.S. DEGREE IN SOCIAL STUDIES**  
**Core Requirements (28 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.

**There may be significant changes in the teacher licensure requirements in this major after September 1, 2001. Students who graduate and are licensed prior to that date will not be affected by the changes, but students who will graduate after September 1, 2001 are urged to consult closely with their academic advisors about the anticipated changes in course requirements.**

ANTH 110 Culture and Symbols (3)  
 ECON 202 Principles of Economics I: Micro (3)  
 GEOG 111 World Regional Geography (3)  
 GEOG 310 United States and Canada (3)  
 HIST 121 History of the United States to 1877 (4)  
 HIST 122 History of the United States since 1877 (4)  
 POL 105 Making Sense of Politics (3)  
 PSY 113 General Psychology (3)  
 SOC 111 Social Problems (2)

OR SOC 110 Introduction to Sociology (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 111 Human Evolution and Prehistory (3)  
 ANTH 265 Language and Culture (3)  
 ANTH 300 Archaeology (3)  
 ANTH 270 Human Biological Variation (3)

OR ANTH 275 Fossil Humans (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 (18 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 204 Principles of Economics II: Macro (3)  
 ECON 300 Global Economic Issues (3)

ECON 301 Introduction to Economic Literature and Methodology (3)  
 ECON 302 Intermediate Microeconomic Theory (3)  
 ECON 304 Intermediate Macroeconomic Theory (3)  
 ECON 317 History of Economic Thought (3)

**Electives (6 Credits)**

Students must complete at least six credits of Economics electives.

**PRIMARY EMPHASIS IN HISTORY (20 Credits)**  
**Requirements (11 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. Students must complete a one year sequence in Western Civilization or a one year sequence in World History.

HIST 101 Western Civilization I (4)  
 HIST 102 Western Civilization II (4)

– OR –

HIST 104 World History I (4)  
 HIST 105 World History II (4)

– AND –

HIST 401 Senior Seminar (3-4)

**Restricted Electives (9 Credits)**

Students must take electives at the 300 level 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.

**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 (25 Credits)  
Requirements (10 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 131 Introductory Psychology Laboratory (1)  
 PSY 202 Developmental Psychology (3)  
 PSY 231 Psychological Statistics and Methodology I (3)  
 PSY 261 Personality (3)

**Restricted Electives (15 Credits)**

Students must complete fifteen elective credits in Psychology courses. Six of the elective credits must be at the 300 level or above and at least two of the courses must be chosen from the following list:  
 PSY 320 Social Psychology (3)  
 PSY 342 Learning and Memory (3)  
 PSY 345 Physiological Psychology (3)  
 PSY 348 Cognition and Perception (3)

**PRIMARY EMPHASIS IN SOCIOLOGY (25 Credits)  
Requirements (14 Credits)**

This is the primary emphasis in Sociology for the Social Studies degree. Students who choose Sociology as their primary emphasis must complete 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 111 Social Problems (2)  
 SOC 205 Social Psychology (3)  
 SOC 211 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. SOC 418 is highly recommended as an elective.

**SECONDARY EMPHASIS:  
ANTHROPOLOGY (9 Credits)  
Requirements (3 Credits)**

This is the secondary emphasis in Anthropology for the Social Studies degree.  
 ANTH 111 Human Evolution and Prehistory (3)

**Electives (6 Credits)**

Students must choose at least six credits of Anthropology electives.

**SECONDARY EMPHASIS: ECONOMICS (10 Credits)  
Requirements (9 Credits)**

This is the secondary emphasis in Economics for the Social Studies degree.

ECON 204 Principles of Economics II: Macro (3)  
 ECON 300 Global Economic Issues (3)  
 ECON 301 Introduction to Economic Literature and Methodology (3)

**Electives (1 Credit)**

Students must choose at least one credit of Economics electives.

**SECONDARY EMPHASIS: GEOGRAPHY (9 Credits)  
Requirements (6 Credits)**

This is the secondary emphasis in Geography for the Social Studies degree.

GEOG 110 Introductory Physical Geography (3)  
 GEOG 225 Conservation (3)

**Electives (3 Credits)**

The elective credits are to be earned in a regional study course.

**SECONDARY EMPHASIS- HISTORY (10 credits)  
Requirements (4 Credits)**

This is the secondary emphasis in History for the Social Studies degree.

HIST 102 Western Civilization II (4)  
 OR HIST 105 World History II (4)

**Restricted Electives (6 Credits)**

Students must take courses at the 300 level or above distributed as follows: one course in European, American, or Canadian history; one course in the history of either Asia, Africa, Latin America, or the modern Middle East.

**SECONDARY EMPHASIS: POLITICAL  
SCIENCE (9 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 (3 Credits)**

Students must earn at least three credits in Political Science electives.

**SECONDARY EMPHASIS:  
PSYCHOLOGY (10 Credits)  
Requirements (1 Credit)**

This is the secondary emphasis in Psychology for the Social Studies degree.

PSY 131 Introductory Psychology Laboratory (1)

**Restricted Electives (9 Credits)**

Students must complete nine elective credits in Psychology, including at least one course at the 300 or 400 level, and at least one of the following courses:

PSY 202 Developmental Psychology (3)

**OR** PSY 261 Personality (3)

**SECONDARY EMPHASIS: SOCIOLOGY (9 Credits)**

Students who have taken SOC 111 in the Primary Emphasis must take SOC 110.

SOC 110 Introduction to Sociology (3)

**OR** SOC 111 Social Problems (2)

SOC 211 Social Theory (3)

SOC 310 Dominant-Subordinate Group Relations (3)

## Social Work

Social Work Department

**Lommen 83, (218) 236-2632**

**Chair:** James Svobodny

**Faculty:** Richard DuBord, Jeffrey Dongvillo, Shawn Ginther, Mary Schroeder.

The Moorhead State University 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 exempted from Moorhead State University's Liberal Studies requirement. However, social work majors who do not have the equivalent of two courses (minimum of five semester credits) from Division F: Multicultural and Global Studies of the Liberal Studies requirement, must take such course work from MSU. 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:**

1. The student must obtain a grade of "C" or higher on ALL required related area courses.
2. The student must have an overall MSU GPA of 2.5 or higher at the time of application for admission.
3. The student must have completed or be enrolled in SW 250 and SW 330, or their approved equivalents at other colleges or universities.
4. The student must complete a self-evaluation essay.
5. The student must complete a writing examination. Students lacking the necessary writing skills will be allowed to take the writing exam at the time of the next admissions. If a student receives his/her letter and is denied admission based on failure to meet writing skills standards, the letter will outline a plan of improvement. This plan might include taking English 286 - Practical Writing, working with the Write Site, or reconsidering the choice of major.
6. 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 and a 2.5 GPA must be earned in all Social Work and related requirement courses prior to internship and prior to graduation. You 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 practice;
- acquire skills necessary for entry level social practice;
- be knowledgeable about the National Association of Social Work Code of Ethics and to 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 460 Social Policy (3)

SW 469 Internship (12)

SW 470 Senior Seminar (3)

**Related Requirements (31 Credits)**

SOC 350 Methods of Social Research (4)

BIOL 104 Human Biology (3)

ECON 100 The American Economy (3)

HIST 241 History of Social Welfare (3)

POL 120 American National Government and Politics (3)

POL 340 Public Administration (3)

PSY 113 General Psychology (3)

PSY 202 Developmental Psychology (3)

SOC 110 Introduction to Sociology (3)

SOC 205 Social Psychology (3)

**Electives (3 Credits)**

In addition to the required courses, students must take three credits of Social Work electives at the 400 level.

**MINOR IN SOCIAL WELFARE (46 Credits)****Requirements (6 Credits)**

A minor in Social Welfare is not accepted by the Council on Social Work Education as adequate preparation for entry level social work practice; neither does a minor in Social Welfare qualify students to take state licensure examinations. This minor is offered solely for students' learning in the area of social services. Students who seek a minor in Social Welfare must complete BIOL 104, PSY 113, PSY 202, and SOC 110 prior to enrolling in SW 330.

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

SW 330 Human Behavior and the Social Environment (3)

**Related Requirements (12 Credits)**

BIOL 104 Human Biology (3)

PSY 113 General Psychology (3)

PSY 202 Developmental Psychology (3)

SOC 110 Introduction to Sociology (3)

**Electives (9 Credits)**

Students must take at least nine credits of Social Work electives chosen from those listed as requirements for the major. Social Work majors will be given priority for class enrollment. Required or elective courses for a social work major may be taken as electives for the social welfare minor. (An internship in a related major does not meet the elective requirements.)

**Sociology**

Sociology and Criminal Justice Department

Lommen 102, (218) 236-2045

**Chair:** Joel Charon

**Faculty:** Jan Fiola, Nancy Gilliland, Mark Hansel, Michael Hughey, Susan Humphers-Ginther, Ray Kawaguchi, David Olday, Joel Powell-Dahlquist, Denis Stead

The sociology major focuses on the study of society, social inequality, organization, social problems, social institutions, and social interaction. As sociology majors, students investigate a wide range of topics such as minorities, family, crime, class, population, and religion. Students are encouraged to develop writing and social research skills, as well as a broad understanding of society and organization.

**STUDENT LEARNING OUTCOMES:**

Students are expected to exhibit an:

- understanding of the content of sociology;
- ability to apply the concepts of sociology to social issues;
- ability to think critically;
- understanding of social research, including the ability to apply research findings to social issues;
- ability to organize ideas, evidence, information and argument;
- ability to use library and/or community resources;
- ability to communicate orally and/or in writing concerning social issues.

**UPPER LEVEL WRITING REQUIREMENT:**

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



**B.A. DEGREE IN SOCIOLOGY (45 Credits)****Requirements (26 Credits)**

- SOC 110 Introduction to Sociology (3)  
 SOC 111 Social Problems (2)  
 SOC 112 Social Deviance (2)  
 SOC 205 Social Psychology (3)  
 SOC 211 Social Theory (3)  
 SOC 350 Methods of Social Research (4)  
 SOC 412 Sociology of Complex Organizations (3)  
 SOC 450 Issues in Sociology (4)  
 SOC 351 Quantitative Methods (2)  
 OR SOC 352 Qualitative Methods (2)

**Electives (19 Credits)**

Twenty credits of Sociology electives are required for the major, with the following exceptions: students may take from one to eight credits of internship, but such credits may not be applied toward the forty-five credits required for the major; students may apply up to four credits of Anthropology courses, with departmental approval, toward the Sociology major; and students may apply up to three credits from Readings courses toward the major.

**MINOR IN SOCIOLOGY (24 Credits)****Requirements (8 Credits)**

- SOC 110 Introduction to Sociology (3)  
 SOC 211 Social Theory (3)  
 SOC 111 Social Problems (2)  
 OR SOC 112 Social Deviance (2)

**Electives (16 Credits)**

Students must take sixteen credits of Sociology electives.

**Spanish**

See Languages

**Special Education**

Special Education Department  
**Lommen 205, (218) 236-2297**

**Chair:** Linda Svobodny

**Faculty:** Paul Beare, Deanne Borgeson, Mark Mostert, Susan Severson, Susan Sze

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 student teaching or practicum field experience in Special Education (SPED 451, 467, 468, 567, 568, 667, 668, 669) require a minimum GPA of 2.75 in SPED prefix course work.

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. PSY 113, PSY 202, and SPCH 100 are related requirements that may be completed as part of liberal studies curriculum.

**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****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.

These requirements are for students who will graduate after September 1, 2001. Students who graduate earlier should consult with their advisor for specific 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)  
 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)
- SPED 494 Legal/Social Foundations of Special Education (3)

**Related Requirements (11 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.

- MCS 233 Education and Multicultural America (3)
- PSY 113 General Psychology (3)
- PSY 202 Developmental Psychology (3)
- SPCH 100 Speech Communication (3)

**DD OPTION (81 Credits)****Core Requirements (33 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
- 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 341A Reading and Language Arts I: Pre-Primary-Grade 6 (3)
- MATH 306 Mathematics for Special Education (3)

**E/BD OPTION (78 Credits)****Core Requirements (33 Credits)**

All students must complete the courses listed as "Core Requirements," "Requirements," and "Related Requirements" under the B.S. Degree in Special Education.

**Requirements (35 Credits)**

Students must earn at least 10 credits in SPED 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 341A Reading and Language Arts I: Pre-Primary-Grade 6 (3)
- MATH 306 Mathematics for Special Education (3)

**ECSE OPTION (79 Credits)****Core Requirements (33 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 473.
- EECE 291 Foundations of Literacy (3)
- EECE 334 Play and Development (3)
- EECE 433 Preschool and Kindergarten Curriculum (3)
- EECE 473 Practicum in Early Childhood Education (2-10)

**P/HD OPTION (81 Credits)****Core Requirements (33 Credits)**

All students must complete the courses listed as "Core Requirements," "Requirements," and "Related Requirements" under the B.S. Degree in Special Education.

**Requirements (38 Credits)**

Students must earn 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 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 341A Reading and Language Arts I: Pre-Primary-Grade 6 (3)
- MATH 306 Mathematics for Special Education (3)

**SLD OPTION (78 Credits)****Core Requirements (33 Credits)**

All students must complete the courses listed as "Core Requirements," "Requirements," and "Related Requirements" under the B.S. Degree in Special Education.

**Requirements (35 Credits)**

- Students must earn at least 10 credits in SPED 451B unless they have already received teacher certification.
- SPED 413 Instructional Strategies (3)
  - SPED 445 Remedial and Corrective Reading (3)
  - SPED 451B Student Teaching: SLD (8-10)
  - SPED 461 Learning Disabilities (3)
  - SPED 463 Assessment Strategies (3)
  - SPED 463L Assessment Lab (1)
  - SPED 464 Educational Planning and Adaptation for Students with Learning Problems (3)
  - SPED 467A Secondary Practicum: Mild Disabilities (3)
  - SPED 470 Transitional Planning (3)
  - SPED 475 Informal Assessment/Teaching Strategies: Students with Learning Disabilities (3)

**Related Requirements (10 Credits)**

- ED 343 Curricular Issues (3)
- ED 367 Practicum: General Education (1)
- EECE 341A Reading and Language Arts I: Pre-Primary-Grade 6 (3)
- MATH 306 Mathematics for Special Education (3)

## Speech Communication and Theatre Arts

Speech Communication and Theatre Arts Department  
**Chair:** David Wheeler

**Faculty:** James Bartruff, Timothy Borchers, Craig Ellingson, Virginia Gregg, Lynn Harter, Theodore Larson, B. Scott Titsworth.

The B.A. Speech Communication degree is designed for the student who wishes to develop proficiency in the theories and techniques of the speech communication field. It provides preparation for work in professional communications, telecommunications, film, or graduate study. The B.A. Theatre Arts degree is designed for the student who wishes to pursue a broadly based humanistic theatre arts background. It provides preparation for work in professional theatre or graduate study.

The B.S. Speech Communications and Theatre Arts degree is designed for the student interested in secondary level teaching opportunities. It should be pursued in conjunction with a second teaching major in a related field such as English.

**STUDENT LEARNING OUTCOMES:**

- Students will write correctly and effectively.
- Students will make effective oral presentations.

**BA degree, Professional Communication Emphasis**

Students will:

- effectively create, deliver, and analyze persuasive and informative public addresses;
- imaginatively and effectively make oral presentations of literature;
- demonstrate knowledge and understanding of communication theories;
- demonstrate knowledge and understanding of history, practices and analysis of rhetoric and rhetorical criticism, argumentation, debate, and persuasion;
- demonstrate knowledge and understanding of the theory, practices and analysis of communication in interpersonal, small group and intercultural situations;
- demonstrate a beginning level of knowledge and understanding about the history, literature, and practices of theatre arts and telecommunications.

**BA degree, Film and Telecommunication Emphasis (Television Track)**

Students will:

- effectively create, deliver, and analyze persuasive and informative public addresses;
- imaginatively and effectively make oral presentations of literature;
- demonstrate knowledge and understanding of communication theories;
- demonstrate a beginning level of knowledge and understanding about the history, literature, and practices of television;
- demonstrate imaginative and technically competent skills while producing, directing, and performing in a television studio environment.

**BA degree, Film and Telecommunication Emphasis (Film Track)**

Students will:

- effectively create, deliver, and analyze persuasive and informative public addresses;
- imaginatively and effectively make oral presentations of literature;
- demonstrate knowledge and understanding of communication theories;
- demonstrate a beginning level of knowledge and understanding about the history, literature, and practices rhetoric, theatre arts, and telecommunication;
- demonstrate knowledge and understanding of the history, theory, and practices of films and film making;
- demonstrate imaginative and technically competent skills while writing, producing, and directing their own films.

**BA degree, Theatre Arts: Acting Emphasis**

Students will demonstrate:

- knowledge, technical proficiency, and artistic creativity with theatre dance forms and styles;
- knowledge, technical proficiency, and artistic creativity about scenic design and technical theatre methods;
- knowledge and understanding of the history, literature, and theory of drama and the theatre;
- a beginning level of knowledge, technical proficiency, and artistic creativity about theatre directing;
- knowledge, technical proficiency, and artistic creativity about acting;
- experience, commitment, and artistic creativity with theatre arts production.

**BA degree, Theatre Arts: Directing Emphasis**

Students will demonstrate:

- knowledge, technical proficiency, and artistic creativity with theatre dance forms and styles;
- knowledge and understanding about the history, literature, and theory of the drama and the theatre;

- a beginning level of knowledge, technical proficiency, and artistic creativity about acting;
- a beginning level of knowledge, technical proficiency, and artistic creativity about theatre directing;
- knowledge, technical proficiency, and artistic creativity about scenic and lighting design and technical theatre methods;
- experience, commitment, and artistic engagement with theatre arts production.

**BS Teaching Degree**

Students will:

- effectively create, deliver, and analyze persuasive and informative public addresses;
- imaginatively and effectively make oral presentations of literature;
- demonstrate knowledge and understanding about the history, practices, and analysis of rhetoric, argumentation, and debate;
- demonstrate knowledge and understanding about the history, literature, and theory of drama and the theatre;
- demonstrate knowledge, technical proficiency, and artistic creativity about acting and directing in the theatre;
- demonstrate knowledge and understanding about the history, literature, and practices of either film or telecommunications;
- demonstrate experience, commitment, and artistic creativity with theatre arts production and forensics competition;
- demonstrate knowledge and technical proficiency with secondary level teaching methods in speech communication and theatre 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 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 is required for graduation. Students must enroll in SPCH 160 for four semesters to earn the total 25 credits required.

SPCH 100 Speech Communication (3)

SPCH 140 Dance for the Stage I (3)

SPCH 160 Theatre Practicum (1)

SPCH 220 Introduction to Theatre (3)

SPCH 230 Principles of Acting (3)

SPCH 235 Principles of Stage Directing (3)

SPCH 255 Technical Theatre Methods (3)

SPCH 496 Senior Seminar (3)

**EMPHASIS IN ACTING (49 Credits)****Core Requirements (25 Credits)**

All courses listed as "Core Requirements" under B.A. Degree in Theatre Arts must be taken.

**Requirements (18 Credits)**

SPCH 322 Development of Drama I (3)  
 SPCH 323 Development of Drama II (3)  
 SPCH 331 Scene Study (3)  
 SPCH 332 Movement and Voice for the Actor (3)  
 SPCH 355 Scene Design I (3)  
 SPCH 430 Acting Styles (3)

**Electives (6 Credits)**

Students must take six credits in speech electives which are at the 300 level or higher.

**EMPHASIS IN DIRECTING (49 Credits)****Core Requirements (25 Credits)**

All courses listed as "Core Requirements" for B.A. Degree in Theatre Arts must be taken.

**Requirements (18 Credits)**

SPCH 322 Development of Drama I (3)  
 SPCH 323 Development of Drama II (3)  
 SPCH 331 Scene Study (3)  
 SPCH 332 Movement and Voice for the Actor (3)  
 SPCH 335 Advanced Stage Directing (3)  
 SPCH 355 Scene Design I (3)

**Electives (6 Credits)**

Students must take six credits of speech electives which are at the 300 level or higher.

**EMPHASIS IN TECHNICAL THEATRE (49 Credits)****Core Requirements (25 Credits)**

All courses listed as "Core Requirements" for B.A. Degree in Theatre Arts must be taken.

**Requirements (18 Credits)**

SPCH 322 Development of Drama I (3)  
 SPCH 323 Development of Drama II (3)  
 SPCH 335 Advanced Stage Directing (3)  
 SPCH 355 Scene Design I (3)  
 SPCH 356 Advanced Technical Theatre Methods/  
 Lighting (3)  
 SPCH 450 Scene Design (3)

**Electives (6 Credits)**

Students must take six credits of speech electives which are at the 300 level or higher.

**MINOR IN THEATRE ARTS (26 Credits)****Requirements (20 Credits)**

SPCH 100 Speech Communication (3)  
 SPCH 140 Dance for the Stage I (3)  
 SPCH 160 Theatre Practicum (1)  
 SPCH 220 Introduction to Theatre (3)  
 SPCH 230 Principles of Acting (3)  
 SPCH 235 Principles of Stage Directing (3)  
 SPCH 255 Technical Theatre Methods (3)

**Electives (6 Credits)**

Students must take six credits in speech electives which are at the 300 level or higher.

**MINOR IN THEATRE DANCE (24 Credits)****Requirements (16 Credits)**

SPCH 140 Dance for the Stage I (3)  
 SPCH 240 Dance for the Stage II (3)  
 SPCH 324 Musical Theatre History (3)  
 SPCH 332 Movement and Voice for the Actor (3)  
 SPCH 340 Principles of Choreography (3)  
 SPCH 440 Dance Production (1)

**Electives (3 Credits)**

Students must take three credits in speech electives which are at the 300 level or higher.

**Related Requirements (5 Credits)**

PE 320 Anatomical Kinesiology (3)  
 MUS 110 Musicianship for Non-Majors (2)  
 OR MUS 111 The Art of Listening (3)

**MINOR IN THEATRE ARTS: TEACHING (25 Credits)****Requirements (22 Credits)**

This minor can only be awarded in combination with at least one teaching major. Because of changes in Minnesota teaching certification, this minor will not meet licensure requirements after September 1, 2001.

SPCH 100 Speech Communication (3)  
 SPCH 160 Theatre Practicum (1)  
 SPCH 220 Introduction to Theatre (3)  
 SPCH 230 Principles of Acting (3)  
 SPCH 235 Principles of Stage Directing (3)  
 SPCH 255 Technical Theatre Methods (3)  
 SPCH 332 Movement and Voice for the Actor (3)  
 SPCH 415 Teaching Methods: Speech and Theatre (3)

**Electives (3 Credits)**

Students must take three credits in a Theatre elective at the 300 level or above.

**B.A. DEGREE IN  
SPEECH COMMUNICATION (49 Credits)  
Core Requirements (21 Credits)**

The core is required of all students majoring in one of the Speech Communication concentrations: Film and Telecommunication or Professional Communication. A grade of "C" or higher in SPCH 496 is required for graduation.

SPCH 100 Speech Communication (3)  
SPCH 105 Beginning Oral Interpretation (3)  
SPCH 210 Introduction to Communication Theory (3)  
SPCH 220 Introduction to Theatre (3)  
SPCH 270 Introduction to Telecommunications (3)  
SPCH 310 Rhetorical Theory (3)  
SPCH 496 Senior Seminar (3)

**EMPHASIS IN PROFESSIONAL  
COMMUNICATION (49 Credits)  
Core Requirements (21 Credits)**

All courses listed as "Core Requirements" for the B.A. Degree in Speech Communication must be taken.

**Requirements (22 Credits)**

SPCH 161 Forensics (1)  
SPCH 211 Argumentation and Debate (3)  
SPCH 300 Intercultural Communication: U.S./Asia (3)  
SPCH 308 Small Group Communication (3)  
SPCH 311 Principles of Persuasion (3)  
SPCH 312 Rhetorical Criticism (3)  
SPCH 315 Interpersonal Communication (3)  
SPCH 400 Advanced Public Speaking (3)

**Electives (6 Credits)**

Students must take six credits of Speech electives which are at the 300 level or above.

**EMPHASIS IN FILM AND  
TELECOMMUNICATION (49 Credits)  
Core Requirements (21 Credits)**

All courses listed as "Core Requirements" under B.A. Degree in Speech Communication must be taken.

**Requirements (13 Credits)**

SPCH 162 R/TV/Film Practicum (1)  
SPCH 272 Television Production (3)  
SPCH 280 History of Film (3)  
SPCH 281 Film Appreciation (3)  
SPCH 372 Television Directing (3)

**Restricted Electives (9 Credits)**

Students must take nine credits in the Television Track (373, 374, and 472) or in the Film Track (284, 385, and 486).

SPCH 284 Beginning Filmmaking (3)  
SPCH 373 Radio-Television Performance (3)  
SPCH 374 Producing for Television (3)  
SPCH 385 International Cinema (3)  
SPCH 472 Advanced TV Production (3)  
SPCH 486 Techniques of Film Directing (3)

**Electives (6 Credits)**

Students must take six credits in Speech electives which are at the 300 level or above.

**MINOR IN SPEECH COMMUNICATION (26 Credits)  
Requirements (18 Credits)**

SPCH 100 Speech Communication (3)  
SPCH 105 Beginning Oral Interpretation (3)  
SPCH 210 Introduction to Communication Theory (3)  
SPCH 220 Introduction to Theatre (3)  
SPCH 270 Introduction to Telecommunications (3)  
SPCH 310 Rhetorical Theory (3)

**Electives (8 Credits)**

Students must take eight credits in speech electives which are at the 300 level or above.

**MINOR IN SPEECH COMMUNICATION:  
TEACHING (25 Credits)**

**Requirements (19 Credits)**

This minor can be awarded only in combination with at least one teaching major. Because of changes in Minnesota teaching certification, this minor will not meet licensure requirements after September 1, 2001.

SPCH 100 Speech Communication (3)  
SPCH 105 Beginning Oral Interpretation (3)  
SPCH 211 Argumentation and Debate (3)  
SPCH 310 Rhetorical Theory (3)  
SPCH 415 Teaching Methods: Speech and Theatre (3)  
SPCH 161 Forensics (1)  
OR SPCH 162 R/TV/Film Practicum (1)  
SPCH 270 Introduction to Telecommunications (3)  
OR SPCH 280 History of Film (3)

**Electives (6 Credits)**

Students must choose six credits in Speech electives at the 300 level or above.

**B.S. DEGREE IN SPEECH COMMUNICATION AND  
THEATRE ARTS: TEACHING (73 Credits)**

**Requirements (34 Credits)**

The Bachelor of Science degree in Speech Communication and Theatre Arts is designed for the student who wishes to pursue a career in the teaching profession. An additional area of study is strongly recommended. English is common but other areas of study can be recommended by a faculty advisor. Students in this major must fulfill all teacher licensure requirements which will add thirty-three credits to the major. Because of changes in Minnesota teaching certification, this major will not meet licensure requirements after September 1, 2001.

- SPCH 100 Speech Communication (3)
- SPCH 105 Beginning Oral Interpretation (3)
- SPCH 160 Theatre Practicum (1)
- SPCH 211 Argumentation and Debate (3)
- SPCH 220 Introduction to Theatre (3)
- SPCH 230 Principles of Acting (3)
- SPCH 235 Principles of Stage Directing (3)
- SPCH 255 Technical Theatre Methods (3)
- SPCH 310 Rhetorical Theory (3)
- SPCH 332 Movement and Voice for the Actor (3)
- SPCH 415 Teaching Methods: Speech and Theatre (3)
- SPCH 161 Forensics 1
  - OR SPCH 162 R/TV/Film Practicum (1)
- SPCH 270 Introduction to Telecommunications (3)
  - OR SPCH 280 History of Film (3)

**Electives (6 Credits)**

Students must take three credits of electives in Speech courses and three credits of electives in Theatre courses. These six credits of electives must be at the 300 level or higher.

**Speech/Language/Hearing Science**

Speech/Language/Hearing /Science Department  
**Grier 100, (218) 236-2286**

**Chair:** K. Dale Gronhovd

**Faculty:** Patrick Coppens, Louis De Maio,  
Bruce Hanson, LaRae McGillivray, Marie Swanson,  
Arne Teigland

The academic programs offered in speech, language, and hearing at Moorhead State University are designed for students who are interested in the normal and disordered processes of human communication. A major in this area is part of the preparation for clinical, teaching, research or service careers in speech-language pathology, audiology, and communication science. The major is also appropriate for those who will pursue careers in hearing conservation, education of the hard of hearing, or deaf 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 Science, 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.

**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 Moorhead State University 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. Moorhead State University's program is accredited by the American Speech-Language-Hearing Association's Educational Standards Board.

Admission to any graduate program at Moorhead State University is limited to those who qualify by virtue of their undergraduate grade point average, Graduate 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 (62 Credits)****Requirements (51 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 (2)  
 SLHS 307 Acoustics and Instrumentation (2)  
 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 391 Research Methods in Speech-Language-Hearing Sciences (2)  
 SLHS 402 Neuroanatomy and Physiology of Communication (3)  
 SLHS 421 Voice Science and Disorders (3)  
 SLHS 424 Fluency Disorders (3)  
 SLHS 446 Clinical Experience (3)  
 SLHS 448 Program Management in Speech-Language Pathology (2)  
 SLHS 473 Rehabilitation Audiology (3)  
 SLHS 496 Senior Project (1)

**Related Requirements (11 Credits)**

- ENGL 387 Technical Report Writing (4)  
 MATH 236 Applied Statistics (4)  
 SPCH 100 Speech Communication (3)

**EMPHASIS IN PRE-AUDIOLOGY (62 Credits)****Requirements (39 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 (2)  
 SLHS 307 Acoustics and Instrumentation (2)  
 SLHS 343 Clinical Procedures (3)  
 SLHS 372 Audiometry (3)  
 SLHS 391 Research Methods in Speech-Language-Hearing Sciences (2)  
 SLHS 402 Neuroanatomy and Physiology of Communication (3)  
 SLHS 446 Clinical Experience (3)  
 SLHS 473 Rehabilitation Audiology (3)  
 SLHS 496 Senior Project (1)

**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 (3)  
 SOC 308 Introduction to Gerontology (3)

**MINOR IN SPEECH-LANGUAGE-HEARING SCIENCES (21 Credits)**

A minor in SLHS is not equivalent to a Speech Pathology Assistant degree.

**Requirements (13 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 (2)

**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

There have been significant changes in Teacher Licensure requirements as of spring of 1999. Courses listed in this *Bulletin* apply to students who will apply for Minnesota licensure after September 1, 2001. Students who will apply for licensure in Minnesota prior to this date are urged to consult with their department. All students should work closely with their academic advisors to monitor other anticipated changes.

See Elementary and Early Childhood Education, Secondary and Kindergarten — Grade 12 Education, Special Education, and specific Secondary and Kindergarten — Grade 12 teaching fields for requirements specific to the various degrees. The requirements described below apply to all teaching licensures. All Moorhead State University education programs are accredited by NCATE (the National Council for Accreditation of Teacher Education).

### Teacher Education Requirements

To be eligible for graduation and/or licensure in any teacher education major, the candidate shall fulfill all of the following requirements:

- A. admission to teacher education and retention in good standing,
- B. completion of a professional education sequence of courses appropriate to the level of teacher preparation,
- C. sequence of early field experiences, and
- D. student teaching.

### 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 following rubrics: ED, EECE, and SPED.

To be admitted to Elementary and Early Childhood Education programs students must:

1. complete 100 and 200 level courses in the Core Requirement section with a grade of C or higher;
2. have a GPA of 2.5 in Liberal Studies;
3. have a cumulative GPA of 2.75;
4. take the Pre-Professional Skills Tests (PPST);
5. submit verification of prior teaching experiences with groups of children/adolescents;
6. achieve a passing score on the EECE written essay;
7. submit application for admission to Teacher Education.

To be admitted to Secondary and Kindergarten—Grade 12 and Special Education programs students must:

1. Complete 100 and 200 level courses in the Core Requirement section with a grade of C or higher;
2. have a GPA of 2.25 in Liberal Studies;
3. have a cumulative GPA of 2.5;
4. Take the pre-Professional Skills Tests (PPST);
5. Submit application for admission to Teacher Education.

Students who fail to maintain an overall GPA of 2.5 will be suspended from the program. Appeal processes are handled by the Teacher Education Admission and Retention Committee (TEARC).

**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, supervising teacher, or administrator of a school to which a student is assigned may request the TEARC to review the fitness of any student enrolled in a teacher education curriculum.

### Professional Education Sequence

Any curriculum leading to graduation and/or licensure with a teaching major shall include courses in the professional preparation of teachers designated by the appropriate MSU Teacher Education Department to comply with requirements of the Minnesota State Board of Teaching. These Board of Teaching regulations are in the process of revision. Please consult the department.

### 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. Placement is in area schools. 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 and application forms are available from the Field Experiences Office, Lommen 212.

The requirements for admission to student teaching include:

- A. admission and retention in teacher education, including a cumulative GPA of 2.5 or higher (see SARTE requirements);
- B. GPA of 2.5 in education core courses with a grade of C or higher in each course;

- C. GPA of 2.5 in liberal studies;
- D. GPA of 2.5 in major;
- E. completion of program requirements including methods courses;
- F. 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.

Student teaching placements will be based on available classroom teachers; travel may be necessary. Transportation, food, lodging and liability insurance are arranged and paid for by the student.

Student teaching will be scheduled for a block of time during each semester. Student teachers will follow the calendar of the school in which they are placed during the assignment.

#### License Programs and Applications

Completion of a degree including a teaching major and teacher education requirements will normally qualify for licensure. However, several majors (e.g., music, early childhood education, special education) 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) or one of the Teacher Education Departments (Lommen Hall) early in the senior year and return it to the Records Office as soon as possible after securing all signatures to prevent any delay in processing the license application.

Application forms for Minnesota licenses are available at the Records Office. Forms for other states should be requested from the appropriate state agencies.

Completed applications and checks or money orders for state license fees are submitted to the Records Office where they will be processed and forwarded after verification.

Moorhead State University is authorized to endorse license applications to other states only for students who have fulfilled all requirements for approved license programs in Minnesota.

#### STUDENT LEARNING OUTCOMES:

MSU 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.

## Technology

Department of Technology  
**Hagen 103, (218) 236-2104**  
**Chair:** Ronald Williams  
**Faculty:** Norma Andersen, Aziz Kian, Michael Ruth,  
 Scott Seltveit, Wade Swenson

People who like to work with emerging technologies, or like the "hands-on" approach to problem solving may be interested in a career major in the Department of Technology. Students can learn about computer graphics, virtual reality, total quality management, logistics, supply chain management, electronic commerce, layout and design of manufacturing or industrial plants, or how to manage a construction project. These career choices are available in the Department of Technology.

More information is available on the Department of Technology Home Page @ (<http://techweb.moorhead.msus.edu>) or Moorhead State University's Home Page @ (<http://www.moorhead.msus.edu>). Moorhead State University offers the only Industrial Technology program in Minnesota, and one of only 45 nationally, that is accredited by the National Association of Industrial Technology (NAIT).

The B.S. Degree in Construction Management is accredited by the American Council of Construction Education (ACCE).

Students enrolled in any of the departmental programs must fulfill the program's core and, where applicable, the concentration requirements. All students must also satisfy the university liberal studies requirements, part of

which are designated as related required courses. The students are provided with the opportunity to take a number of free elective courses.

### **B.S. Construction Management (CM)**

Construction Managers are leaders and problem solvers who are able to produce results in a team-oriented environment. Construction Managers plan, schedule, budget, and manage all the activities associated with a construction project. They evaluate various construction methods to determine the most cost-effective plans and schedules. MSU's Construction Management graduates are project managers, estimators, field engineers, job superintendents, schedulers, safety engineers, or you can secure employment in the building materials supply industry. Students should have strong analytical, technical, management, and communication skills. Construction is one of the nation's largest industries, and employment studies have shown the demand for construction managers will increase by 47% in the next ten years.

#### **STUDENT LEARNING OUTCOMES:**

- **Communication Skills:** The student will be able to apply oral, written, graphic, and listening skills as each is a critical component of effective communication.
- **Technical Skills:** The student will be able to implement the various forms of technology inclusive in the management of the construction process, utilizing current equipment, computers, and electronic data processing through use of word processing, data bases, and spreadsheets applications, as well as the information highway.
- **Scientific Skills:** The student will be able to apply scientific knowledge of the mathematical, physical, and construction sciences to the economic utilization of materials and forces of nature affecting construction practice.
- **Management/Marketing Concepts and Skills:** The student will be able to apply the principles and philosophy of management systems, cost accounting, and economics to the construction industry, including the interpretation of contracts, the values of team building, and the Construction Code of Conduct established by the industry through the assistance of the American Institute of Constructors. The student graduating from the program will be considered a construction service provider and marketer of construction skills and knowledge.
- **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 and Cost Control:** The student will be able to complete the estimating, cost accounting, and bidding sequence necessary for construction job acquisition and completion.
- **Interpretation of Construction Plans:** The student will be able to perform quantity take-off, interpret construction specifications, identify appropriate codes, identify site conditions, apply value engineering, and develop detailed project proposals.
- **Construction Budgeting:** The student will be able to prepare complete cost control processes including the ability to establish a budget, prepare cost reports, and forecast expenditures.
- **Schedule and Control Techniques:** The student will be able to prepare a complete construction project schedule, develop a procurement time table, and establish a project manual and plan showing the logical sequence of activities and time duration in order to monitor progress and update schedules.
- **Construction Safety:** The student will be able to execute construction safety standards including the ability to interpret the OSHA construction standards, establish safety and health procedures on the job site, and perform hazard material and process analysis.
- **Construction Surveying and Project Layout:** The student will be able to apply the established procedures for identifying distance and elevations from known points and layout the project in accordance with plot plans, site information, and local building criteria.
- **Project Administration:** The student will be able to identify the appropriate construction management principles necessary to complete the site plans, evaluating vendors and subcontractors, writing field purchase orders, change orders, subcontract agreements, shop drawings, as built drawings, daily logs/job dairies, construction reports, and progress payment requests.

### **B.S. Graphic Communications (GC)**

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 or multimedia.

The **digital design** 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 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.

**B.S. Industrial Technology**

Includes options in Industrial Distribution (ID), Industrial Management (IM), and General Technology (GT). The options in IM and ID are accredited by the National Association of Industrial Technology (NAIT).

**Option in Industrial Distribution (ID)**

Industrial Distribution graduates are “behind the scenes” specialists in wholesale distribution and logistics (how products get from a manufacturer to a local supplier). The definition of a “product” ranges from the items normally associated with manufacturing and construction requirement/materials to many others such as food products, pharmaceuticals, soft goods, etc. The types of jobs available to Industrial Distribution graduates are far ranging, including several management opportunities (operations, warehousing, branch), manufacturing representatives, product specialists, and a variety of inside and outside sales positions. The curriculum provides a blend of technology and business related classes to prepare graduates to be immediately productive, skills that are in great demand.

**Option in Industrial Management (IM)**

Industrial Management graduates are highly trained technical managers who improve performance related to better product reliability and efficiency. The high demand for Industrial Management graduates is a result of many firms re-engineering and re-organizing their companies to facilitate contemporary management systems and technologies. Employment opportunities available in total quality management, production management and scheduling, inventory control, production planning, manufacturing management, work station design and industrial safety.

**Option in General Technology (GT)**

The General Technology option is designed for transfer students who have earned an Associate of Applied Science degree, an Associate of Science degree, or a technical diploma from an accredited institution in a field of study related to Industrial Technology. Students identifying Industrial Technology—General Technology as their intended major at Moorhead State University will transfer a minimum of 30 technical credits which will be used as the technical portion of the IT BS major. **This 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 educational outcomes endorsed by an Industrial advisory board.** Demand for technical management college graduates with an extensive technical expertise and an understanding of business operations is projected to remain at a very high level.

**Minors Offered**

Students can select a minor in either Construction Management or Industrial Management. For students in business, accounting, or a related area, the selection of an Industrial Technology minor may prove a valuable edge in today's tight job market.

**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 CONSTRUCTION MANAGEMENT (96 Credits)****Requirements (67 Credits)**

In addition to the courses listed below, students will need to earn at least three credits in TECH 490.

- ACCT 230 Principles of Accounting I (3)
- ENG 200 Surveying (3-4)
- ENG 243 Engineering Mechanics I - Statics (3)
- MGMT 360 Principles of Management (3)
- TECH 113 Engineering Graphics/CAD (3)
- TECH 128 Introduction to Construction Management (1)
- TECH 201 Construction Materials and Processes (3)
- TECH 215 Architectural Planning and Codes (3)
- TECH 321 Construction Cost Analysis (3)
- TECH 325 Construction Estimating I (3)
- TECH 326 Mechanical/Electrical Systems (3)
- TECH 328 Construction Planning and Scheduling (3)
- TECH 329 Construction Equipment and Methods (3)
- TECH 385 Process Leadership (3)
- TECH 394 Computer Applications for Engineers and Technologists (3)
- TECH 422 Construction Law and Contracting (3)
- TECH 423 Construction Estimating II (3)
- TECH 424 Soil Mechanics (3)
- TECH 426 Construction Project Control (3)
- TECH 427 Construction Project Administration (3)
- TECH 493 Occupational Safety and Health (3)
- TECH 496 Construction Management Capstone Project (3)

**Restricted Electives (9 Credits)**

Select nine 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 (20 Credits)**

In addition to the courses listed below, students must earn four credits from CHEM 150 and 155 or PHYS 111, or GEOL 115 and 115L.

- CSIS 103 Computer Applications for Business I (3)
- ECON 202 Principles of Economics I: Micro (3)
- MATH 229 Fundamentals of Applied Mathematics (3)
- MATH 234 Introduction to Probability and Statistics (4)
- SPCH 100 Speech Communication (3)

**MINOR IN CONSTRUCTION  
MANAGEMENT (21 Credits)**

**Requirements (21 Credits)**

In addition to the listed courses, students must earn at least three credits in Construction Management electives. Students must choose their electives in consultation with their faculty advisor.

- TECH 325 Construction Estimating I (3)
- TECH 328 Construction Planning and Scheduling (3)
- TECH 380 Methods Improvement (3)
- TECH 428 Project Management (3)
- TECH 482 Quality Planning and Implementation (3)
- TECH 493 Occupational Safety and Health (3)

**B.S. DEGREE IN GRAPHIC  
COMMUNICATIONS (64-67 Credits)**

**Core Requirements (38 Credits)**

This core is required of all students majoring in one of the Graphic Communications options: Digital Design or Multimedia Production.

- ART 125 Foundation Design I (4)
- ART 126 Foundation Design II (4)
- TECH 113 Engineering Graphics/CAD (3)
- TECH 150 Survey of Graphic Communications Industry (3)
- TECH 252 Introduction to Desktop Publishing (3)
- TECH 256 Introduction to Multimedia (3)
- TECH 257 Advanced Desktop Publishing (3)
- TECH 452 Graphic Communications Estimating (3)
- TECH 459 Graphic Communications Final Project 6
- ART 130 Introduction to Photography (4)
  - OR MC 230 Photography (3)
  - MC 272 Television Production (3)
  - OR SPCH 272 Television Production (3)

**OPTION IN MULTIMEDIA  
DEVELOPMENT (67 Credits)**

**Core Requirements (38 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Graphic Communications.

**Requirements (21 Credits)**

- In addition to the courses listed below, students must also take either TECH 356 and TECH 456 or TECH 316 and TECH 416.
- TECH 216 (3)D CAD (3)
  - CSIS 150 Introduction to Computers and Programming I (4)
  - MUS 381 Electronic Music (3)
  - MUS 481 Audio Production (2)
  - TECH 358 Web Authoring and Development (3)

**Electives (8 Credits)**

Students must take three courses from the following list:

- MC 303 Advertising Principles (3)
- MUS 364 Film and Video Music (3)
- MSU 482 Music Synthesis (2)
- SPCH 255 Technical Theatre Methods (3)
- SPCH 284 Beginning Filmmaking (3)
- SPCh 355 Scene Design I (3)
- SPCH 372 Television Directing (3)
  - OR MC 372 Television Directing (3)

**OPTION IN DIGITAL DESIGN (64 Credits)**

**Core Requirements (38 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Graphic Communications.

**Requirements (20 Credits)**

- Students must enroll in ART 300B twice and earn at least eight semester credits in this course.
- ART 152 Introduction to Pictorial Illustration (4)
  - ART 154 Introduction to Graphic Design (4)
  - ART 200B Graphic Design Studio (4)
  - ART 300B Graphic Design Studio

**Electives (6 Credits)**

Select two courses from the following list:

- MC 303 Advertising Principles (3)
- MC 330 Photojournalism (3)
- MC 331 Photo Editing (3)
- MC 430 Documentary Photography (3)

**B.S. DEGREE IN INDUSTRIAL  
TECHNOLOGY (60-86 Credits)**

**Core Requirements (27 Credits)**

- 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 GENERAL TECHNOLOGY (60 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.

**OPTION IN INDUSTRIAL DISTRIBUTION (82 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Industrial Technology.

**Requirements (32 Credits)**

MKTG 310 Principles of Marketing (3)  
 MKTG 315 Industrial Marketing (3)  
 MKTG 419 Distribution Management (3)  
 TECH 113 Engineering Graphics/CAD (3)  
 TECH 145 Introduction to Industrial Distribution (1)  
 TECH 230 Manufacturing Processes (3)  
 TECH 274 Survey of Electronics Technology (4)  
 TECH 285 Fluid Power Technology (3)  
 TECH 346 Industrial Distribution Operations (3)  
 TECH 376 Industrial Process Control (3)  
 TECH 485 Production and Inventory Management (3)  
 OR MGMT (3)80 Operations Management (3)

**Related Requirements (23 Credits)**

CHEM 150 General Chemistry I (3)  
 CHEM 155 General Chemistry Laboratory I (1)  
 CSIS 103 Computer Applications for Business I (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 101 Introduction to Physics (3)  
 SPCH 100 Speech Communication (3)

**OPTION IN INDUSTRIAL MANAGEMENT (86 Credits)****Core Requirements (27 Credits)**

Students must complete the courses listed as "Core Requirements" under the B.S. Degree in Industrial Technology.

**Requirements (32 Credits)**

TECH 111 Technology and Society (2)  
 TECH 113 Engineering Graphics/CAD (3)  
 TECH 116 Computer-Aided Drafting (2)  
 TECH 230 Manufacturing Processes (3)  
 TECH 274 Survey of Electronics Technology (4)  
 TECH 285 Fluid Power Technology (3)

TECH 332 CNC Part Programming (3)  
 TECH 334 Material Science (3)  
 TECH 376 Industrial Process Control (3)  
 TECH 483 Facility Design (3)  
 TECH 485 Production and Inventory Management (3)  
 OR MGMT 380 Operations Management (3)

**Related Requirements (27 Credits)**

In addition to the courses listed below, students must complete either the Chemistry sequence of CHEM 150, 155, 160, and 165 or the Physics sequence of PHYS 111 and 112.

CSIS 103 Computer Applications for Business I (3)  
 ECON 202 Principles of Economics I: Micro (3)  
 MATH 143 Trigonometry (3)  
 MATH 229 Fundamentals of Applied Mathematics (3)  
 MATH 234 Introduction to Probability and Statistics (4)  
 SPCH 100 Speech Communication (3)

**MINOR IN INDUSTRIAL MANAGEMENT (21 Credits)****Requirements (21 Credits)**

In addition to the listed courses, students must earn at least three credits in Industrial Management electives. Students must choose their electives in consultation with their faculty advisor.

TECH 230 Manufacturing Processes (3)  
 TECH 380 Methods Improvement (3)  
 TECH 482 Quality Planning and Implementation (3)  
 TECH 483 Facility Design (3)  
 TECH 493 Occupational Safety and Health (3)  
 TECH 485 Production and Inventory Management (3)  
 OR MGMT 380 Operations Management (3)

**Theatre**

See Speech Communication

## University Studies

Continuing Studies Office

811 11<sup>th</sup> Street South, 236-2182

**Program Advisors:** Judy Lacher and 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.

- 43 credits of the degree program must be at the 300-400 levels;
- 30 credits of the last 64 credits and 8 of the last 12 credits must be earned at MSU;
- Major may be declared as late as the semester prior to graduation, but not before attaining junior standing;
- Both the partial major or rubric and the additional single rubric or concentration must include courses with at least a 2.0 GPA;
- Areas of the concentration are proposed by the advisor and student and approved by the dean as a part of the degree program;
- Students will meet MSU graduation requirements, including the upper-level writing requirements.

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.

### **Requirements (128 Credits):**

MSU Liberal studies requirements: 45 credits

A partial major program or rubric: 36 credits

Additional single rubric course work or an area of concentration: 21 credits

Free electives: 26 credits

### **Electives (9 Credits)**

Students may only select two elective courses from the same academic rubric. Other courses may be allowed with prior approval of the program coordinator.

- ANTH 303 Cross Cultural Gender (3)
- ART 408 Women and Art (3)
- BIOL 300 Biology of Women (3)
- ENGL 246 Women in Literature (3)
- ENGL 248 Introduction to American Ethnic Literature (3)
- HIST 350 Women in European History (4)
- HIST 375 Women in United States History (3)
- HUM 312 Women and the Humanities (3)
- HUM 395 Topics in Women's Studies (3)
- HUM 410 Directed Readings in Women's Studies
- MC 496 Mass Communications Seminar (3)
- MCS 372 Dynamics of Prejudice and Oppression (4)
- MDS 232A Women's Roles and Socialization in 19th and 20th Century America (2)
- MDS 232B Women's Roles and Socialization in 19th and 20th Century America (1)
- PE 294 Women and Sport (3)
- PHIL 290 Special Topics in Philosophy
- PHIL 372 Dynamics of Prejudice and Oppression (4)
- PSY 320 Social Psychology (3)
- SOC 219 Sociology of Sexual Behavior (2)
- SOC 235 Sociology of Health and Medicine (3)
- SOC 310 Dominant-Subordinate Group Relations (3)
- SOC 320 Sociology of the Family (3)
- SOC 333 Sociology of Gender (3)
- SOC 416 Violence in the Family (3)

## Women's Studies

English Department

Weld 216, (218) 236-2235

**Program Coordinator:** Hazel Retzlaff

### **WOMEN'S STUDIES CURRICULUM**

The minor in Women's Studies provides students an opportunity for interdisciplinary learning related to women in society. Students are expected to interrelate various kinds of knowledge and perspectives from the natural and social sciences, humanities, and education.

### **MINOR IN WOMEN'S STUDIES (18 Credits)**

#### **Requirements (9 Credits)**

PHIL 314 Introduction to Feminist Theory (3)

WS 247 Women's Studies (3)

WS 412 Seminar in Women's Studies (3-4)

**OR** PHIL 495 Topics in Feminist Theory (3)

# Course Descriptions

The Course Description section lists undergraduate courses offered at Moorhead State University as of June 1999, arranged in alphabetical order by subject. The first line indicates the department offering the course, course number, liberal studies (the specific liberal studies category is enclosed in brackets), course title, and credit value. The second line indicates the semester the course will be offered. The paragraph below each course describes content and lists required prerequisites.

The first digit of each course number suggests the year of study in which the course should normally be taken: 100–Freshman; 200–Sophomore; etc. Numbers below 100 designate remedial or technical courses which are not applicable to college degree requirements.

## Accounting

### **ACCT 130 Fundamentals of Accounting (1-3)**

**Fall:** All Years **Spring:** All Years

General purpose accounting and reporting issues and procedures that affect small businesses and their operators. May not be applied to any business major.

### **ACCT 190 Topics in Accounting (1-3)**

**Fall:** Demand **Spring:** Demand

This course may be repeated since content may vary.

### **ACCT 205 Environment of Law (4)**

**Fall:** All Years **Spring:** All Years

Introduction to the American legal system, ethics, administrative law, antitrust, employment, torts and product liability, contracts and international business.

### **ACCT 230 Principles of Accounting I (3)**

**Fall:** All Years **Spring:** All Years

Introduction to the content and concepts underlying the financial and managerial information prepared by management for use by investors, creditors, and managers.

### **ACCT 231 Principles of Accounting II (3)**

**Fall:** All Years **Spring:** All Years

Continuation of ACCT 230 topics.

**Prerequisite:** ACCT 230

### **ACCT 290 Topics in Accounting (1-4)**

**Fall:** Demand **Spring:** Demand

This course may be repeated since content may vary.

### **ACCT 306 Business Entities and Property (3)**

**Fall:** All Years **Spring:** All Years

Study of agency law and business organizations (including all forms of partnership, corporations and limited liability companies), corporate financing, property (real, personal and intellectual), bailments, trusts and estates, and insurance law. **Prerequisite:** ACCT 205

### **ACCT 307 Commercial Transactions (3)**

**Fall:** Demand **Spring:** Demand

Detailed study of Uniform Commercial Code (sales, contracts, commercial paper and secured transactions), creditors' remedies, bankruptcy, professional responsibilities, and securities regulation.

**Prerequisite:** ACCT 205

### **ACCT 315 Accounting Systems (3)**

**Fall:** All Years **Spring:** All Years

Developing, organizing, and using accounting data in a computerized environment; emphasis on accounting applications using computerized spreadsheets, databases, and general ledger software.

**Prerequisite:** ACCT 230, CSIS 103

### **ACCT 320A Employment Law A (2)**

**Fall:** Demand **Spring:** Demand

An exploration of the legal nature of the employment relationship including contract and liability issues and major stages of the employment relationship, including hiring, evaluation and termination. Students who enroll in this course may not receive credit for ACCT 320B or 320C.

### **ACCT 320B Employment Law B (3)**

**Fall:** Demand **Spring:** Demand

An exploration of the legal nature of the employment relationship including contract and liability issues and major stages of the employment relationship, including hiring, evaluation and termination. Coverage includes antidiscrimination law and the Family and Medical Leave Act. Students who enroll in this course may not receive credit for ACCT 320A or 320C.

### **ACCT 320C Employment Law C (4)**

**Fall:** Demand **Spring:** Demand

An exploration of the legal nature of the employment relationship including contract and liability issues and major stages of the employment relationship, including hiring, evaluation and termination. Coverage includes antidiscrimination law and the Family and Medical Leave Act as well as government regulation topics such as labor law, workplace standards, workers' compensation, and pension and benefits law. Students who enroll in this course may not receive credit for ACCT 320A or 320B.



**ACCT 330 Intermediate Accounting I (3)****Fall:** All Years **Spring:** Demand

Review of the accounting process, workpaper preparation, error identification, and accounting standards research. Review of basic financial statements. Analysis of conceptual framework, cash, receivables, inventories, fixed assets and leases.

**Prerequisite:** ACCT 231 **AND** ACCT 315 **OR** MGMT 370**ACCT 331 Intermediate Accounting II (3)****Fall:** Demand **Spring:** All Years

Financial statement analysis. Valuation and analysis of investments, liabilities, owners' equity/EPS, accounting changes, disclosures, foreign currency and international issues. Emphasis also placed on communication skills.

**Prerequisite:** ACCT 330**ACCT 340 Introduction to Taxation (3)****Fall:** All Years **Spring:** All Years

Outline of federal tax system: tax elements of business planning, including capital investment and employment decisions.

**ACCT 350 Cost Accounting (3)****Fall:** All Years **Spring:** Demand

Emphasis on costing systems, including job order and process costing, joint and operation costing, ABC, variable costing and standard costing with variance analysis. **Prerequisite:** ACCT 231 **AND** ACCT 315 **OR** MGMT 370

**ACCT 390 Topics in Accounting (1-3)****Fall:** Demand **Spring:** Demand

This course may be repeated since content may vary.

**ACCT 420 International Accounting (3)****Fall:** All Years

Focus on current applied managerial and financial methodologies in the international environment. Theoretical and philosophical arguments will be presented and discussed concerning the world-wide diversity of accounting policies.

**Prerequisite:** ACCT 231**ACCT 430 Advanced Accounting (3)****Spring:** All Years

Study of consolidations, partnerships, theory, recent standards, and other advanced topics. Course will also include an integrative project or case.

**Prerequisite:** ACCT 331**ACCT 431 Non-Profit Accounting (3)****Fall:** All Years

Study of accounting, legal, and tax issues of governmental and other not-for-profit entities. Course will also include an integrative project or case.

**Prerequisite:** ACCT 330**ACCT 441 Individual Income Tax (3)****Spring:** All Years

Fundamentals of federal income tax preparation for individuals. **Prerequisite:** ACCT 340

**ACCT 443 Corporate/Partnership Tax (3)****Fall:** All Years

Tax planning and return preparation for corporations, S corporations, and partnerships.

**Prerequisite:** ACCT 340**ACCT 446 Estate, Gift and Trust Taxation (3)****Fall:** All Years

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of estate planning.

**Prerequisite:** ACCT 340**ACCT 460 Audit I (3)****Fall:** All Years **Spring:** Demand

Fundamentals of external and internal auditing. Audit purpose, ethical and legal considerations, planning, internal control, and evidence requirements. Course will also include an integrative project or case.

**Prerequisite:** ACCT 331**ACCT 461 Audit II (3)****Spring:** Demand

Detailed study of existing and emerging attestation, assurance and accounting services provided by certified public accountants. Coverage will include statistical sampling, report writing, and ethical and legal considerations. **Prerequisite:** ACCT 460

**ACCT 469 Internship (1-12)****Fall:** Demand **Spring:** Demand

Practical experience with a local or regional firm.

**ACCT 490 Topics in Accounting (1-3)****Fall:** Demand **Spring:** Demand

This course may be repeated since content may vary.

**ACCT 495 Advanced Topics in Business Law (1-3)****Spring:** Demand

In-depth study of a particular area of business law. Content of course will vary with instructor. May be taken more than once since content will vary.

**Prerequisite:** ACCT 205**American Studies****AMST 201 [F1] Origins of MC America (4)****Fall:** All Years

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

**AMST 202 [F1] Modern Multicultural America (4)****Spring:** All Years

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

**AMST 217 [D1] Introduction to the American Culture (3)****Fall:** All Years

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

**AMST 221 [D1] 20th Century I (4)****Fall:** All Years

A study of representative works of literature, art, architecture and music as they reflect central themes of the 20th century to World War II.

**AMST 222 [D1] 20th Century II (4)****Spring:** All Years

From 1940 to present.

**AMST 317 [D] The Midwest (3)****Fall:** Demand **Spring:** Demand

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

**Prerequisite:** AMST 217**AMST 390 Topics in American Culture (1-3)****Fall:** Demand

An interdisciplinary approach to a selected issue or era in American life. Topics vary.

**AMST 417 Seminar: Violence in American Culture (4)****Spring:** Odd Years

Course focuses on violence in American culture. Selected problems in American culture, employing the objectives and approach of interdisciplinary studies. Emphasis upon student research and writing.

**Prerequisite:** AMST 217, AMST 317**AMST 419 Success in American Society (4)****Fall:** All Years

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

**Prerequisite:** AMST 217**AMST 420 Directed Reading in American Studies (1-3)****Fall:** Demand **Spring:** Demand

Tutorial in American Studies. **Prerequisite:** AMST 217

**AMST 469 Student Internship (3-12)****Fall:** Demand **Spring:** Demand**Prerequisite:** AMST 217**Anthropology****ANTH 110 [F] Culture and Symbols (3)****Fall:** All Years **Spring:** All Years

Introduction to the concept of culture and to the study of language.

**ANTH 111 [C] Human Evolution and Prehistory (3)****Fall:** All Years **Spring:** All Years

The focus of this course is the biological and cultural evolution of humankind. The evolution of humans is covered along with a review of the archeological record through the emergence of civilization.

**ANTH 210[F1] Midwest/Plains Prehistory (3)****Fall:** Even Years

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

**ANTH 210R Recitation (1)****Fall:** Demand**ANTH 210W Writing Intensive (1)****Fall:** Demand**ANTH 216 [C] Prehistoric Cultures (3)****Fall:** Odd Years

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

**ANTH 216R Recitation (1)****Fall:** Demand**ANTH 216W Writing Intensive (1)****Fall:** Demand**ANTH 217 [C] Social Evolution (3)****Spring:** Even Years

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

**ANTH 217R Recitation (1)****Spring:** Demand**ANTH 217W Writing Intensive (1)****Spring:** Demand**ANTH 219 [F1] Plains Indian Cultures (3)****Fall:** Demand **Spring:** Demand

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

**ANTH 248 [C] Theory Through Institutions (4)****Fall:** Demand **Spring:** Demand

Presentation of the major theoretical schools in anthropology (Evolutionism, Ecological, Functional, Cognitive, and Postmodernism) as applied to economic, political and kinship institutions from a cross-cultural perspective. These three major institutions will be looked at individually and as an integrated system with various levels of societies. **Prerequisite:** ANTH 110

**ANTH 248R Recitation (1)****Fall:** Demand **Spring:** Demand**ANTH 248W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**ANTH 260 Anthropological Linguistics (3)****Spring:** Demand

Analysis of phonology, morphology, syntax and grammar of non-Indo-European speech families.

**Prerequisite:** ANTH 110**ANTH 260R Recitation (1)****Spring:** Demand**ANTH 260W Writing Intensive (1)****Spring:** Demand**ANTH 265 Language and Culture (3)****Spring:** Demand

The relationship between language and culture with emphasis on historical linguistics, sociolinguistics, psycholinguistics, and ethnolinguistics.

**Prerequisite:** ANTH 110**ANTH 265R Recitation (1)****Spring:** Demand**ANTH 265W Writing Intensive (1)****Spring:** Demand**ANTH 270 [B] Human Biological Variation (3)****Spring:** Demand

This course examines from an evolutionary perspective, the biological and physiological variation of modern humans. Principles of evolutionary biology and population genetics are used to explain the incidence and distribution of various human traits.

**Prerequisite:** ANTH 111**ANTH 270R Recitation (1)****Spring:** Demand**ANTH 270W Writing Intensive (1)****Spring:** Demand**ANTH 275 [B] Fossil Humans (3)****Fall:** All Years **Spring:** Demand

This course provides a descriptive survey of the human fossil record. Particular emphasis is placed on critical examination of theories concerning origins, adaptation, diversity, and continuing evolution of humans, as well as application of evolutionary principles to the fossil record.

**Prerequisite:** ANTH 111**ANTH 275R Recitation (1)****Fall:** Demand **Spring:** Demand**ANTH 275W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**ANTH 280 Forensic Anthropology (4)****Fall:** Demand

This course focuses on the application of anthropological principles to death scene investigations involving a buried body or skeletal remains. The primary emphasis is on (1) skeletal identification, (2) identification of the victim, (3) determination of the cause, manner, and time of death, and (4) collection of crime scene evidence using standard archaeological techniques. **Prerequisite:** ANTH 111

**ANTH 290 Topics in Anthropology (2-3)****Fall:** Demand **Spring:** Demand

Topics from the subdisciplines of anthropology.

**Prerequisite:** ANTH 110, ANTH 111**ANTH 290R Recitation (1)****Fall:** Demand **Spring:** Demand**ANTH 290W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**ANTH 300 Archaeology (3)****Fall:** Even Years

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

**ANTH 300R Recitation (1)****Fall:** Demand**ANTH 300W Writing Intensive (1)****Fall:** Demand**ANTH 302 [F] Cultural Aspects of Aging (3)****Fall:** Demand

A survey of various cultures' definitions of aging and the elderly, their treatment, status, and responsibilities.

Examines age as a variable of classification and assignment within a society. **Prerequisite:** ANTH 110

**ANTH 302R Recitation (1)****Fall:** Demand**ANTH 302W Writing Intensive (1)****Fall:** Demand**ANTH 303 [F] Cross Cultural Gender (3)****Spring:** Demand

A survey of gender roles in various cultures. This class examines the relationship of gender to kinship, economics, political and biological factors. It also addresses culture change and the effect on gender role assignments. **Prerequisite:** ANTH 110

**ANTH 303R Recitation (1)****Spring:** Demand**ANTH 303W Writing Intensive (1)****Spring:** Demand**ANTH 306 Cross-Cultural Illness and Care (3)****Fall:** Demand **Spring:** Demand

Medical anthropology. A survey of the distributions of illness throughout the world with emphasis on the definitions, treatments, and practitioners as well as the cultural settings producing them.

**Prerequisite:** ANTH 110**ANTH 306R Recitation (1)****Fall:** Demand **Spring:** Demand**ANTH 306W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**Prerequisite::****ANTH 315 [F1] North American Archaeology (3)****Spring:** Odd Years

An overview of the prehistory of North America from the end of the Ice Age. **Prerequisite:** ANTH 111

**ANTH 315R Recitation (1)****Spring:** Demand**ANTH 315W Writing Intensive (1)****Spring:** Demand**ANTH 320 Human Osteology (4)****Spring:** Demand

This course is designed to acquaint the student with each bone of the normal adult human skeleton. The uses of anthropometric instruments will be demonstrated as well as the methods for estimating age, gender, ancestry, and population dynamics.

**Prerequisite:** ANTH 111**ANTH 321 Bioarchaeology (4)****Fall:** Demand **Spring:** Demand

This course examines the reconstruction from skeletal populations of subsistence patterns, diet, disease, demography, and physical activity. The material builds on concepts introduced in the Human Osteology course and is focused at the population level of analysis rather than the individual level. **Prerequisite:** ANTH 320

**ANTH 380 [F] Traditional Cultures (3)****Spring:** Even Years

An examination of traditional cultures before widespread westernization, including a review of the anthropological literature, such as ranking, non-market exchange and systems of production, domestic organization, power, authority, and traditional religious systems.

**Prerequisite:** ANTH 110**ANTH 380R Recitation (1)****Spring:** Demand**ANTH 380W Writing Intensive (1)****Spring:** Demand**ANTH 390 Topical Course in Anthropology (1-3)****Fall:** Demand **Spring:** Demand

Study of various topics in anthropology. This course may be repeated as topics vary.

**ANTH 445 Seminar in Anthropology (4)****Fall:** Demand **Spring:** Demand

Selected topics in Anthropology. Students are expected to do a research project in a subject related to the topic of the course. May be repeated when topic varies.

**ANTH 450 Field Work in Anthropology (6)**

An applied course in archaeology involving excavations at archaeological sites during the summer months.

Emphasis on lab and field techniques including map reading, photography, excavation techniques, artifact processing and analysis.

**ANTH 451 Archaeology Lab (2-4)****Spring:** All Years

Laboratory training in archaeology including inventory, treatment and curation of collections, basic laboratory drawing, photography, data entry and reporting. Students will work on collections from regional archaeological sites.

**ANTH 469 Internship in Anthropology (2-10)****Fall:** All Years **Spring:** All Years**ANTH 497 Reading in Anthropology (1-5)****Fall:** All Years **Spring:** All Years

Selected readings in anthropology under the close supervision of a member of the department.

**Art****ART 100 [D] Elements of Art (2)****Fall:** All Years **Spring:** All Years

Basic principles of creative design. Experimental use of various media in drawing and painting.

**ART 101 Basic Drawing I (4)****Fall:** All Years

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

**ART 102 Basic Drawing II (4)****Spring:** All Years

Intermediate visual inquiry using representational and imaginative studies. Use of composition, color and contemporary concepts of drawing emphasized. Wet media and figure drawing included.

**ART 125 Foundation Design I (4)****Fall:** All Years **Spring:** All Years

Introduction to elements and principles of visual language, color, form/shape, line, space and texture as they relate to basic design. The course will include an introduction to constructive, perceptual, symbolic and expressive aspects of color within a variety of relationships.

**ART 126 Foundation Design II (4)****Spring:** All Years

A continuation of Basic Design I with an introduction to visual organization, volume, plane, linear volume, organic-biomorphic, texture, light art, translucency, kinetic and reflection.

**ART 130 Introduction to Photography (4)****Fall:** All Years **Spring:** All Years

Introduction to photographic equipment, materials, processes, and philosophy. Includes experiments with paper, film, small camera operation, roll-film processing, enlarging, mounting, and matting.

**Prerequisite:** ART 101, ART102, ART125, ART126**ART 150 Introduction to Ceramics (4)****Fall:** All Years **Spring:** All Years

Historical, technical and aesthetic aspects of the materials and methods of ceramics, functional and nonfunctional. **Prerequisite:** ART 101, ART 102, ART 125, ART126

**ART 152 Introduction to Pictorial Illustration (4)****Fall:** All Years **Spring:** All Years

Study of basic concepts of pictorial illustration. Traditional and contemporary trends in image making also adaptable for publishing in narrative. Content exploration in the areas of advertising, editorial and scientific illustration. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

**ART 154 Introduction to Graphic Design (4)****Fall:** All Years **Spring:** All Years

Studio inquiry into the nature of graphic design. Including: Visual problem-solving, introduction to typography, symbols, lettermarks, logotypes, publication design and diagrams, as well as client/designer relations, studio operations and production procedures for print media. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

**ART 156 Introduction to Painting (4)****Fall:** All Years **Spring:** All Years

Contemporary and historical approaches to painting; materials, techniques and theoretical bases of 20th century art. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

**ART 157 Introduction to Printmaking (4)****Fall:** All Years **Spring:** All Years

Historic development of relief printing, intaglio, lithography and serigraphy. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

**ART 160 Introduction to Sculpture (4)****Fall:** All Years **Spring:** All Years

Survey of the materials, methods and techniques of sculpture. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

**ART 162 Introduction to Watercolor (3)****Fall:** Demand **Spring:** Demand

Techniques and creative expression in water media. Emphasis on transparent watercolor. Representational and non-objective approach. **Prerequisite:** ART 101, ART 102, ART 125, ART 126

**ART 170 [D1] Art Appreciation: Content and Form (3)****Fall:** All Years **Spring:** All Years

Visual art as reference and expression in human society; form and materials used by artists.

**ART 200 Individualized Studies (4)****Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

**ART 200A Ceramics Studio (4)****Fall:** All Years **Spring:** All Years

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

**ART 200B Graphic Design Studio (4)****Fall:** All Years **Spring:** All Years

In-depth studio investigations in selected areas of graphic image making and planning, i.e. symbols, typography, diagrams, displays, packaging, and illustrative and photographic applications.

**ART 200C Painting Studio (4)****Fall:** All Years **Spring:** All Years

Investigation of painting in areas of particular interest to the student based on an initial contractual agreement between the student and the instructor. Emphasis upon introductory level technical skills, media investigation and concepts.

**ART 200D Printmaking Studio (4)****Fall:** All Years **Spring:** All Years

Development of the technical facility and appropriate imagery in any one of the traditional printmaking media such as relief printing, intaglio, lithography or serigraphy. The scope of work and media will be determined in a contractual agreement between the student and instructor.

**ART 200E Sculpture Studio (4)****Fall:** All Years **Spring:** All Years

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

**ART 200F Photography Studio (4)****Fall:** All Years **Spring:** All Years

This course addresses aesthetic and technical concerns in photography. Instruction includes darkroom experimentation with papers, toners, and films and experimentation with lighting techniques. Special emphasis is given to projects involving the development of camera vision and conceptual ideas.

**Prerequisite:** ART 130**ART 200H Drawing Studio (4)****Fall:** All Years **Spring:** All Years

Investigation of drawing in areas of particular interest to the student based on initial contractual agreement between student and instructor. Emphasis on continued refinement of introductory level technical skills, media investigation and concept.

**ART 200L Pictorial Illustration Studio (4)****Fall:** All Years **Spring:** All Years

Development of conceptual skills in order to visualize a variety of narrative concepts in pictorial form. Further technique investigation and experimentation.

**ART 206 Studio Lighting and Color (3)****Spring:** Even Years

This course will introduce the student to the principles of lighting and the development of color materials used in a studio setting. In addition, large-format equipment will be utilized to produce quality images in black and white and color.

**ART 220 Papermaking (4)****Fall:** Demand **Spring:** Demand

Survey of materials, methods and techniques of hand papermaking.

**ART 225 Fiber/Textile Design (4)****Fall:** Demand **Spring:** Demand

Introduction to a variety of surface and three-dimensional design techniques as they apply to textiles and fiber materials and forms. Printing on fabric, dyeing, batik, applique, weaving, basketry, felting and papermaking will be explored. A survey of textile history and past and contemporary artists is also addressed.

**ART 233 [D1] History of Art I: Prehistory through the Middle Ages (4)****Fall:** All Years

Survey of architecture, painting, and sculpture in their historical and cultural contexts from prehistory through the Middle Ages.

**ART 234 [D1] History of Art II: Renaissance through Modern (4)****Spring:** All Years

Survey of architecture, painting and sculpture in their historical and cultural contexts from the renaissance to the contemporary world.

**ART 252 Life Drawing (4)****Fall:** All Years **Spring:** Demand

Studies from live models emphasizing interpretation and anatomical accuracy. May be repeated up to 9 credits.

**ART 253 Advanced Life Drawing (4)****Fall:** Demand **Spring:** All Years

Advanced study emphasizes figure in composition using a variety of media. May be repeated up to 9 credits.

**ART 262 Watercolor (3)****Fall:** Demand **Spring:** Demand

Creative painting in transparent and opaque watercolor. Painting problems and solutions.

**Prerequisite:** ART 162**ART 268 Glass Construction (4)****Fall:** All Years **Spring:** All Years

Survey of history, materials, processes and techniques of glass.

**ART 290 Topics in Art (1-3)****Fall:** All Years **Spring:** All Years

Studio, seminar or discussion of topics not included in other art courses. Up to three credits may be applied to the major.

**ART 298 Gallery Management (1-2)****Fall:** Demand **Spring:** Demand

A study of the design installation and lighting of exhibitions of art, documentation, public relations, publicity and financial management. Repeatable to 6 credits.

**ART 300 Individualized Studies (1-6)****Fall:** All Years **Spring:** All Years

Individualized instruction in media not regularly offered in studio concentrations.

**ART 300A Ceramics Studio (1-6)****Fall:** All Years **Spring:** All Years

300 level courses continue exploration of the wider number of directions that are possible with clay and glazes. Handbuilding techniques are used to explore more sculptural concerns. **Prerequisite:** Art 150

**ART 300B Graphic Design Studio (1-6)****Fall:** All Years **Spring:** All Years

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

**ART 300C Painting Studio (1-6)****Fall:** All Years **Spring:** All Years

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

**ART 300D Printmaking Studio (1-6)****Fall:** All Years **Spring:** All Years

Refinement of technical skills and conceptual quality appropriate to a particular media as relief printing, intaglio printing, lithography or serigraphy.

Experimentation in color printing and combination of processes. The scope of the work and media will be determined in a contractual agreement between the student and the instructor.

**ART 300E Sculpture Studio (1-6)****Fall:** All Years **Spring:** All Years

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

**ART 300F Photography Studio (1-6)****Fall:** All Years **Spring:** All Years

Refinement of technical facility and concentration to the subjects of portraits, characterization of individuals and architectural forms. Experimentation with hand coloring techniques. The scope of the work and the media will be determined in a contractual arrangement between the student and the instructor.

**ART 300H Drawing Studio (1-6)****Fall:** All Years **Spring:** All Years

Refinement of previously acquired introductory knowledge and experimentation at the intermediate level, based on initial contractual agreement between student and instructor. Continued investigation of media, including color, and increased conceptual emphasis.

**Prerequisite:** ART 152**ART 300L Pictorial Illustration Studio (1-6)****Fall:** All Years **Spring:** All Years

Development of systems concept for a variety of illustration topics, with the goal to clearly articulate a concept in visual language to a client and the intended audience.

**ART 301 Technical Ceramics (4)****Spring:** All Years

Hands-on technical aspects of kiln building and clay/glaze calculation. Alternative primitive firing techniques and resourcing of materials and natural clay deposits are explored.

**ART 320 [D] Philosophy of the Arts (3)****Fall:** Demand **Spring:** Demand

Philosophical questions in fine arts. Topics include the nature of art and aesthetic experience and criticism.

**Prerequisite:** PHIL 101 OR PHIL 105**ART 325 Art Methods K-12 (3)****Fall:** All Years

Study of the developmental stages of children's art making, lesson planning techniques, curriculum development, classroom management, assessment, utilizing art museum/gallery resources, art for special populations, and multicultural issues. Students develop a philosophy of art, art making, and the teaching of art.

**ART 329 Photographic Silk Screen Printing (1-3)****Fall:** Demand **Spring:** Demand

Directed studio investigation of the screen printing process via photo-sensitive stencil methods.

**ART 338 [F] Non-Western Art (3)****Fall:** Demand **Spring:** Demand

Survey of the principal art forms of Africa, Oceania and Pre-Columbian America and the Arts of India, China and Japan with emphasis on their cultural and philosophical context.

**ART 350 Methods and Materials: Art for the Elementary Classroom (3)****Fall:** All Years **Spring:** All Years

Students investigate materials and techniques for creating meaningful expression in the visual arts. Theoretical topics include: developmental stages of children's art making, lesson planning, curriculum development, assessment, organizing museum/gallery experiences for children and integrating art into the elementary curriculum. **Prerequisite:** ED 205, ED 205E, ED 294

**ART 352 Life Drawing Anatomy (4)****Fall:** All Years **Spring:** All Years

Study from life models of human structure relative to surface manifestations of movement, age and posture. May be repeated for up to 9 credits.

**ART 390 Topics in Art (1-3)****Fall:** All Years **Spring:** All Years

Studio, seminar or discussion of topics not included in other art courses. Up to three credits may be applied to the major.

**ART 400 Individualized Studies (1-6)****Fall:** Demand **Spring:** Demand

Individualized instruction in media not regularly offered in studio concentrations.

**ART 400A Ceramics Studio (1-6)****Fall:** All Years **Spring:** All Years

400 level contracts are usually issued to senior majors in Ceramics. The work done by these students is most often connected to the senior exhibition and extends students to produce work of their highest capabilities.

**Prerequisite:** ART 300A**ART 400B Graphic Design Studio, Contracted Work (1-6)****Fall:** Demand **Spring:** Demand

Advanced studio work with contracted visual problems and production. These investigations may be initiated by the student, commissioned on or off campus or developed under design direction of the instructor, i.e. visual identity, publication design, art exhibition promotion and/or other university publication design.

**Prerequisite:** ART 300B

**ART 400C Painting Studio (1-6)****Fall:** Demand **Spring:** Demand

Further development of conceptual and formal qualities of painting in media or medium of particular interest to the student based on previous investigation and initial contractual agreement between student and instructor. Emphasis on the development of a cohesive body of work showing coordination of technical, formal and conceptual issues in the context of personal imagery.

**Prerequisite:** ART 300C**ART 400D Printmaking Studio (1-6)****Fall:** All Years **Spring:** All Years

Further development of conceptual and formal qualities of creative work in a selected printmaking media such as relief printing, intaglio printing, lithography or serigraphy, with emphasis on consistency of small editions. The scope of the work and media will be determined in a contractual agreement between the student and instructor. **Prerequisite:** ART 300D

**ART 400E Sculpture Studio (1-6)****Fall:** All Years **Spring:** All Years

Exploration of sculpture concepts and media in preparation for the Senior Exhibition.

**Prerequisite:** ART 300E**ART 400F Photography Studio (1-6)****Fall:** All Years **Spring:** All Years

Further development of conceptual and formal qualities in selected non-silver process photographic projects, plus color photography and processing. The scope of the work and the media will be determined in contractual arrangement between the student and the instructor.

**Prerequisite:** ART 300F**ART 400H Drawing Studio (1-6)****Fall:** All Years **Spring:** All Years

Further development of conceptual and formal qualities of drawing in media or medium of particular interest to the student based on previous investigation and initial contractual agreement between student and instructor. Emphasis on the development of a cohesive body of work showing coordination of technical, formal and conceptual issues in the context of personal imagery.

**Prerequisite:** ART 300H**ART 400L Pictorial Illustration Studio (1-6)****Fall:** All Years **Spring:** All Years

Further development of conceptual and formal qualities of illustration in media, selected appropriate to the subjects. Emphasis on conclusive, clear pictorial statement. **Prerequisite:** ART 300L

**ART 402 Advanced Methods: Art (3)****Spring:** All Years

Developing, planning, and presenting art experiences to K-12 students will be the primary component of this course. Topics concerning the art room environment, safety, ordering supplies, current topics in art education, and professional preparation are also addressed.

**Prerequisite:** ART 325**ART 408 Women and Art (3)****Fall:** Demand **Spring:** Demand

This course explores the history of women as artists as well as the history of women as the subject of art in the west. Topics may vary.

**ART 410 Ancient Art (4)****Fall:** Demand **Spring:** Demand

History of architecture, painting, and sculpture in Ancient Greece, Etruria and Rome.

**Prerequisite:** ART 233, ART 234**ART 411 Medieval Art (4)****Fall:** Demand **Spring:** Demand

History of the art and architecture of the Byzantine and Western Medieval cultures.

**Prerequisite:** ART 233, ART 234**ART 420 Renaissance Art (4)****Fall:** Demand **Spring:** Demand

Renaissance and Mannerist art and architecture in Italy and Northern Europe, 1300-1600.

**Prerequisite:** ART 233, ART 234**ART 421 Baroque Art (4)****Fall:** Demand **Spring:** Demand

Seventeenth- and Eighteenth-Century European painting, architecture, and sculpture.

**Prerequisite:** ART 233, ART 234**ART 425 Art History Abroad (2-4)****Fall:** Demand **Spring:** Demand**Prerequisite:** ART 233, ART 234**ART 430 Nineteenth Century Art (4)****Fall:** Demand **Spring:** Demand

Painting, sculpture and architecture of the 19th century, including Neoclassicism, Realism, Romanticism, Impressionism, and Post Impressionism.

**Prerequisite:** ART 233, ART 234**ART 431 Twentieth-Century Art (4)****Fall:** Demand **Spring:** Demand

Painting, sculpture and architecture from the beginning of the twentieth century to the present.

**Prerequisite:** ART 233, ART 234**ART 433 Modern Architecture (3)****Fall:** Demand **Spring:** Demand

Architecture of the late 19th and 20th centuries. The materials, techniques and forms of the architectural conception. **Prerequisite:** ART 233, ART 234

**ART 434 American Art (4)****Fall:** Demand **Spring:** Demand

Survey of architecture, painting and sculpture in America from Colonial times to the present.

**Prerequisite:** ART 233, ART 234



**ART 450 Contemporary Art, Design, and Theory (4)****Spring:** All Years

This seminar course is designed as a capstone course for art majors. Emphasis will be placed on major art movements and theoretical concepts from 1945 to the present day. **Prerequisite:** ART 233, ART 234

**ART 451A Ceramic Studio (4-12)****Fall:** All Years

Assuming that the accepted student has mastered all of the preceding experiences and has presented a portfolio of high competency demonstration, the hours devoted to the major level BFA program involves one with a concentration in a single-minded project in ceramics—decorating, glazing, firing, formal elements and/or sets and other. **Prerequisite:** ART 400A

**ART 451B Graphic Design Studio (4-12)****Fall:** All Years

Senior project preparation for BFA candidacy fulfillment, portfolio preparation, and project presentation.

**Prerequisite:** ART 400B**ART 451C Painting Studio (4-12)****Fall:** All Years

In-depth problem analysis and conceptual refinement of personal imagery in selected painting media, as well as continued development of a cohesive body of work.

Emphasis on preparation for professional presentation or exhibition in preparation for further career development, either in formal setting or in the field.

**Prerequisite:** ART 400C**ART 451D Printmaking Studio (4-12)****Fall:** All Years

In-depth problem analysis and high quality technical refinement of editions. Development of personal imagery in a cohesive portfolio of fine prints. The scope of the work and media will be determined in a contractual arrangement between the student and the instructor.

**Prerequisite:** ART 400D**ART 451E Sculpture Studio (4-12)****Fall:** All Years

In-depth problem analysis and conceptual refinement of personal imagery in selected sculpture media, as well as continuing development of a cohesive body of work.

Emphasis on preparation for professional presentation or exhibition preparation for further career development, either in formal setting or in the field.

**Prerequisite:** ART 400E**ART 451F Photography Studio (4-12)****Fall:** All Years

In-depth problem analysis and high quality technical refinement of prints. Development of personal imagery and conceptual approach in a cohesive visual investigation, documented in a portfolio of photographic works. The scope of the work and media will be determined in a contractual arrangement between student and instructor. **Prerequisite:** ART 400F

**ART 451H Drawing Studio (4-12)****Fall:** All Years

In-depth problem analysis and conceptual refinement of personal imagery, as well as continued development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition in preparation for further career development, either in formal setting or in the field. **Prerequisite:** ART 400H

**ART 451L Pictorial Illustration Studio (4-12)****Fall:** All Years

In-depth problem analysis and conceptual refinement of personal imagery in selected illustration media, as well as continued development of a cohesive body of work.

Emphasis preparation for professional presentation in preparation for further development either in a formal setting or in the field. **Prerequisite:** ART 400L

**ART 452A Ceramic Studio (4-12)****Spring:** All Years

Assuming that the accepted student has mastered all of the preceding experiences and has presented a portfolio of high competency demonstration, the hours devoted to the major level BFA program involves one with a concentration in a single-minded project in ceramics—decorating, glazing, firing, formal elements and/or sets and other. **Prerequisite:** ART 400A

**ART 452B Graphic Design Studio (4-12)****Spring:** All Years

Senior project preparation for BFA candidacy fulfillment, portfolio preparation, and project presentation.

**Prerequisite:** ART 400B**ART 452C Painting Studio (4-12)****Spring:** All Years

In-depth problem analysis and conceptual refinement of personal imagery in selected painting media, as well as continued development of a cohesive body of work.

Emphasis on preparation for professional presentation or exhibition in preparation for further career development either in formal setting or in the field.

**Prerequisite:** ART 400C**ART 452D Printmaking Studio (4-12)****Spring:** All Years

In-depth problem analysis and high quality technical refinement of editions. Development of personal imagery in a cohesive portfolio of fine prints. The scope of the work and media will be determined in a contractual arrangement between the student and the instructor.

**Prerequisite:** ART 400D

**ART 452E Sculpture Studio (4-12)****Spring:** All Years

In-depth problem analysis and conceptual refinement of personal imagery in selected sculpture media, as well as continuing development of a cohesive body of work.

Emphasis on preparation for professional presentation or exhibition preparation for further career development, either in formal setting or in the field.

**Prerequisite:** ART 400E

**ART 452F Photography Studio (4-12)****Spring:** All Years

In-depth problem analysis and high quality technical refinement of prints. Development of personal imagery and conceptual approach in a cohesive visual investigation, documented in a portfolio of photographic works. The scope of the work and media will be determined in a contractual arrangement between student and instructor. **Prerequisite:** ART 400F

**ART 452H Drawing Studio (4-12)****Spring:** All Years

In-depth problem analysis and conceptual refinement of personal imagery, as well as continued development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition in preparation for further career development, either in formal setting or in the field. **Prerequisite:** ART 400H

**ART 452L Pictorial Illustration Studio (4-12)****Spring:** All Years

In-depth problem analysis and conceptual refinement of personal imagery in selected illustration media, as well as continued development of a cohesive body of work. Emphasis preparation for professional presentation in preparation for further development, either in a formal setting or in the field. **Prerequisite:** ART 400L

**ART 453A Ceramic Studio (4-12)****Fall:** Demand **Spring:** Demand

Assuming that the accepted student has mastered all of the preceding experiences and has presented a portfolio of high competency demonstration, the hours devoted to the major level BFA program involves one with a concentration in a single-minded project in ceramics-decorating, glazing, firing, formal elements and/or sets and other. **Prerequisite:** ART 452A

**ART 453B Graphic Design Studio (4-12)****Fall:** Demand **Spring:** Demand

Senior project preparation for BFA candidacy fulfillment, portfolio preparation, and project presentation.

**Prerequisite:** ART 452B**ART 453C Painting Studio (4-12)****Fall:** Demand **Spring:** Demand

In-depth problem analysis and conceptual refinement of personal imagery in selected painting media, as well as continued development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition in preparation for further career development, either in formal setting or in the field.

**Prerequisite:** ART 452C**ART 453D Printmaking Studio (4-12)****Fall:** Demand **Spring:** Demand

In-depth problem analysis and high quality technical refinement of editions. Development of personal imagery in a cohesive portfolio of fine prints. The scope of the work and media will be determined in a contractual arrangement between the student and the instructor. **Prerequisite:** ART 452D

**ART 453E Sculpture Studio (4-12)****Fall:** Demand **Spring:** Demand

In-depth problem analysis and conceptual refinement of personal imagery in selected sculpture media, as well as continuing development of a cohesive body of work.

Emphasis on preparation for professional presentation or exhibition preparation for further career development, either in formal setting or in the field.

**Prerequisite:** ART 452E**ART 453F Photography Studio (4-12)****Fall:** Demand **Spring:** Demand

In-depth problem analysis and high quality technical refinement of prints. Development of personal imagery and conceptual approach in a cohesive visual investigation documented in a portfolio of photographic works. The scope of the work and media will be determined in a contractual arrangement between student and instructor. **Prerequisite:** ART 452F

**ART 453H Drawing Studio (4-12)****Fall:** Demand **Spring:** Demand

In-depth problem analysis and conceptual refinement of personal imagery, as well as continued development of a cohesive body of work. Emphasis on preparation for professional presentation or exhibition in preparation for further career development, either in formal setting or in the field. **Prerequisite:** ART 452H

**ART 453L Pictorial Illustration Studio (4-12)****Fall:** Demand **Spring:** Demand

In-depth problem analysis and conceptual refinement of personal imagery in selected illustration media, as well as continued development of a cohesive body of work. Emphasis preparation for professional presentation in preparation for further development, either in a formal setting or in the field. **Prerequisite:** ART 452L

**ART 455 [C] Psychology of the Arts (3)****Fall:** Demand **Spring:** Demand

An understanding of the relationship of the fundamental principles of psychology to the arts is developed from the formal beginning of psychology to the present.

**Prerequisite:** PSY 113**ART 469 Student Internship (2-12)****Fall:** All Years **Spring:** All Years

A one semester self-directed exploration or professional experience with an artist, designer, illustrator, art museum or studio.

**ART 480 BFA Seminar (3)****Fall:** All Years

Consideration of social, economic and legal concerns of the contemporary visual artist. Topics include: Art law, copyright law, portfolio development, exhibition preparation, and other issues pertinent to performance in the professional art world. This course may be taken at any time during the 5th year for BFA credit.

**ART 490 Topics in Art (1-3)****Fall:** All Years **Spring:** All Years

Studio, seminar or discussion of topics not included in other art courses. Up to three credits may be applied to the major.

**ART 497 Topics in Art I (1-6)****Fall:** All Years **Spring:** All Years

Studies selected from art history, theory of ceramics, drawing, graphic design, painting, photography, printmaking, sculpture, watercolor, and illustration.

**AST 390 Projects in Advanced Astronomy (2)****Fall:** Demand **Spring:** Demand

Consideration of special problems or the study of introductory topics at a more advanced level. May be repeated for credit with consent of instructor for no more than three times or six credits.

**AST 410 Astrophysics (2)****Fall:** Demand **Spring:** Demand

Mathematical consideration of various topics in introductory astrophysics. Topics may vary slightly depending on interests of instructor and participants.

**Astronomy****AST 101 Observational Astronomy (2)****Fall:** Demand **Spring:** Demand

Non-technical introduction to naked-eye astronomy and observing with small telescopes. The course is primarily project-oriented. Includes laboratory.

**AST 102 [B1] Solar System Astronomy (3)****Fall:** All Years **Spring:** All Years

An introduction to the history of astronomy, the Sun, the origin of the solar system, and the study of the planets.

**AST 104 [B1] Stellar Astronomy (3)****Fall:** All Years **Spring:** All Years

An introduction to stars, stellar evolution, galaxies and the origin and structure of the universe. The course also includes a discussion of instrumentation currently used in astronomical investigations.

**AST 190 Topics in Astronomy (1-3)****Fall:** Demand

A study of a specific area of astronomy. This course may be repeated as course content may vary.

**AST 200 [B] Cosmology (3)****Fall:** Demand **Spring:** Demand

Theoretical principles and observational evidence regarding the large-scale structure and evolution of the universe. **Prerequisite:** AST 104

**AST 260 [B] Planetary Science (3)****Fall:** Demand **Spring:** Demand

A synthesis of current knowledge of the members of the solar system and the origin and evolution of planetary system. Includes laboratory. **Prerequisite:** AST 102 OR AST 104 OR GEOL 115

**AST 350 Astrophotography (1)****Fall:** Demand **Spring:** Demand

Use of the camera, telescope, Schmidt camera and other instruments for taking photographs of celestial objects. **Prerequisite:** AST 104, MC 230

**AST 380 Celestial Mechanics (2)****Fall:** Demand **Spring:** Demand

Principles of celestial mechanics, central force motion, two body problem, n body problem, prediction and determination of orbits, perturbations. **Prerequisite:** PHYS 330

**Athletic Training****AT 120 Introduction to Athletic Training (2)****Fall:** All Years

This course is designed to introduce the student to the profession of athletic training and the certified trainer as a health care provider. Various aspects of Moorhead State University's athletic training program are discussed.

**AT 220 Care and Prevention of Athletic Injuries (2)****Fall:** All Years **Spring:** All Years

This course provides students with the basic principles of athletic training. Students will learn: prevention, recognition, and treatment of athletic injuries; organization and administration of athletic training programs; and basic taping techniques.

**AT 320 Organization and Administration of Athletic Training (3)****Fall:** All Years

This course is designed to prepare the student athletic trainer for the development and administration of various procedures, records, forms, budgets, and professional contracts needed to successfully manage an athletic training program. **Prerequisite:** AT 120, AT 220, Admission to AT major

**AT 321 Athletic Training Techniques (3)****Fall:** All Years

The students will learn advanced taping/strapping techniques, fabrication, fitting, and maintenance of special pads, splints, and braces used in athletics. Development and implementation of emergency management procedures and ambulatory methods for the injured athlete will be covered.

**Prerequisite:** AT 220, HLTH 125, Admission to AT major

**AT 322 Athletic Injury Assessment (3)****Spring:** All Years

This course is an in-depth study of athletic injury assessment techniques involving musculoskeletal and neurovascular structures of the body. Content includes the application of theoretical concepts with practical experience in the areas of care and prevention of athletic injuries and injury/illness assessment.

**Prerequisite:** AT 321, Admission to AT major

**AT 323 Athletic Training Modalities (3)****Fall:** All Years

This course will investigate tissue repair, physiology of hot and cold treatments, therapeutic modalities, and therapeutic exercise relevant to athletic injury management. **Prerequisite:** AT 322, Admission to AT major

**AT 324 Athletic Injury Rehabilitation (2)****Spring:** All Years

A study of therapeutic exercise and reconditioning techniques applied to various athletic injuries, including modes of muscular/cardiovascular strength and endurance, and range of motion exercises.

**Prerequisite:** AT 323, Admission to AT major**AT 325 Athletic Training Practicum I (2)****Spring:** All Years

This course is designed to give the students supervised clinical experiences in athletic Training. The students will perform athletic injury assessments on the MSU athletes under the supervision of NATA certified athletic trainers. A minimum of 250 supervised hours are required.

**Prerequisite:** AT 322, Admission to AT major**AT 326 Athletic Training Practicum II (2)****Fall:** All Years

This course is a continuation of AT 325 with an emphasis on manual muscle testing techniques. The students also receive supervised clinical experience in Athletic Training in an affiliated high school setting under the supervision of NATA certified athletic trainers. A minimum of 250 supervised hours are required. **Prerequisite:** AT 322, AT 325, Admission to AT major

**AT 327 Athletic Training Practicum III (2)****Spring:** All Years

This course is a continuation of AT 325 and 326 with an emphasis on rehabilitation techniques utilized in the athletic training room setting and in an affiliated sports medicine clinic. The students receive supervised clinical experience in Athletic Training under the supervision of NATA certified athletic trainers and physical therapists. A minimum of 250 supervised hours are required.

**Prerequisite:** AT 325, AT 326, Admission to AT major**AT 420 Athletic Training Seminar (3)****Spring:** All Years

This seminar will cover a broad range of current issues and research in the athletic training profession. This is the final preparation for the student for the national certification examination. In addition, the mechanics of resume writing, interviewing, and job searching will be examined. **Prerequisite:** AT 320, AT 327, Admission to AT major.

**AT 425 Athletic Training Practicum IV (2)****Spring:** All Years

This course is a continuation of AT 325, AT 326, and AT 327 with an emphasis on supervised surgical and clinical orthopedic/podiatric injuries. The students receive supervised clinical experience in Athletic Training under the supervision of NATA certified athletic trainers, physicians, exercise physiologists, and physical therapists. A minimum of 250 supervised hours are required. **Prerequisite:** AT 325, AT 326, AT 327, Admission to AT major

**Biology****BIOL 102 [B1] Matter and Life (3)****Fall:** All Years **Spring:** All Years

Biological principles with emphasis on the chemical and physical basis for life at the cellular level. Includes topics on genetics and evolution. For non-science majors. Majors or minors in any area of biology should take BIOL 111 instead.

**BIOL 103 [B] Humanity and the Ecosystem (3)****Fall:** All Years **Spring:** All Years

Survey of general ecology emphasizing human impact on the environment, including population and pollution. For non-science majors.

**BIOL 104 [B] Human Biology (3)****Fall:** All Years **Spring:** All Years

Biological basis of human structures and functions with references to genetics, development, nutrition and disease. For non-science majors.

**BIOL 105 [B1] Exploring Biology (3)****Spring:** Even Years

Principles of biology with emphasis on human biology, basic concepts in ecology and the impact of specific environmental problems. For non-science majors. This course may be particularly appropriate for prospective elementary teachers. With lab.

**BIOL 111 [B1] Cell Biology (4)****Fall:** All Years

Fundamental concepts of the structure, function and reproduction of cells.

**BIOL 226 Field Biology of Plants (3)****Fall:** All Years

An introduction to plant identification, ethnobotany and ecology. Laboratory activities and field trips will focus on the local flora and vegetation.

**BIOL 236 [B1] Introduction to Microbiology (3)****Spring:** All Years

Concepts and application of microbiology. For paramedical, health, physical education, agriculture majors. Not for medical technology, cytotechnology, biology majors, minors. This course includes a lab. **Prerequisite:** BIOL 102 OR CHEM 150 OR BIOL 104 OR BIOL 111 OR CHEM 110 OR CHEM 150

**BIOL 241 [B] Principles of Human Genetics (3)****Fall:** Demand **Spring:** Demand

An introduction to human genetics for the non-biology major. Without lab. BIOL 102 OR BIOL 104 OR BIOL 111 recommended

**BIOL 300 Biology of Women (3)****Fall:** Demand **Spring:** Demand

A study of the gender-related aspects of the biology and behavior of women, including a critical examination of research in this field. Not applicable toward a major or minor in any area of biology. **Prerequisite:** BIOL 104

**BIOL 303 [B1] General Zoology (4)****Spring:** All Years

A survey of the major phyla of invertebrates and the major classes of vertebrates including comparative structure and function of representative organisms and systems. With lab. **Prerequisite:** BIOL 111

**BIOL 305 [B1] General Botany (4)****Fall:** All Years

Survey of the major groups of fungi, algae, and plants, with an emphasis upon the structure, physiology, growth and reproduction of the angiosperms.

**Prerequisite:** BIOL 111**BIOL 310 Comparative Vertebrate Anatomy (3)****Fall:** All Years

Detailed morphological study of vertebrates from the lamprey to humans. This course includes a lab.

**Prerequisite:** BIOL 303**BIOL 323 Human Anatomy (4)****Fall:** All Years

Anatomical structure of the human body, from individual organ systems to the integrated whole.

**Prerequisite:** BIOL 111 OR BIOL 303**BIOL 325 Plant Taxonomy (3)****Spring:** Odd Years

Identification, principles of classification and phylogeny of the vascular plants with emphasis on the angiosperms. With lab and field work.

**BIOL 341 Genetics (4)****Fall:** All Years **Spring:** All Years

A survey of the modern molecular and classical Mendelian principles underlying biological inheritance. With lab. **Prerequisite:** BIOL 111

**BIOL 345 Principles of Ecology and Evolution (4)****Fall:** All Years

The structure and function of ecological systems and the major principles of evolution and speciation. With lab and field work which will emphasize local species and ecosystems. **Prerequisite:** BIOL 303, BIOL 305 AND BIOL 341

**BIOL 347 Plant Physiology (3)****Spring:** All Years

Structure and function of higher plants with emphasis on molecular and cellular physiology as related to whole plant functions. Topics include growth and development, photosynthesis, and environmental aspects of plant physiology. With Lab. **Prerequisite:** BIOL 305, CHEM 160, CHEM 165

**BIOL 349 Human Physiology (4)****Spring:** All Years

The study of human physiology from cellular homeostasis through organ systems. Includes the study of normal function, regulation, and integration of organ systems, and the implications of abnormal function.

**Prerequisite:** BIOL 111 OR BIOL 303, CHEM 160, CHEM 165 OR CHEM 180, CHEM 185**BIOL 350 Microbiology (4)****Fall:** All Years

Covers concepts of basic and applied microbiology, emphasizing bacteriology and introducing virology and immunology. Laboratory covers basic microbiological techniques, identification of unknowns as well as a group research project. With lab.

**Prerequisite:** BIOL 111, BIOL 303 OR BIOL 305, CHEM 160, CHEM 165. BIOL 341 is recommended.**BIOL 360 Cell and Vertebrate Systems Physiology (4)****Spring:** All Years

Cellular physiology including protein function, membrane function, signal transduction and electrical properties of cells and a comparative overview of vertebrate organ system function, regulation, and integration. **Prerequisite:** BIOL 111, BIOL 303, CHEM 160, CHEM 165

**BIOL 365 Developmental Biology (3)****Fall:** All Years **Spring:** All Years

A study of the mechanisms of development in a variety of biological systems, with analyses of changes from conception through aging. With lab.

**Prerequisite:** BIOL 303**BIOL 372 Aquatic Biology (4)****Fall:** Odd Years

A general overview of aquatic ecosystems, their individual components and how they interact. This includes basic water chemistry, invertebrate and vertebrate aquatic animals, algal and vascular aquatic plants and aquatic resource management.

**Prerequisite:** BIOL 111, BIOL 303, CHEM 160, CHEM 165 OR CHEM 180, CHEM 185

**BIOL 385 Molecular Biology (4)****Fall:** All Years

Molecular biology of the gene with emphasis on gene structure and expression in eukaryotes. With lab. Laboratory will focus on techniques used for analysis and manipulation of DNA (to include restriction analysis, PCR, DNA sequencing, and DNA subcloning.) BIOL 350 is recommended. **Prerequisites:** BIOL 111, BIOL 341, CHEM 160, CHEM 165

**BIOL 402 Principles of Animal Behavior (3)****Fall:** Odd Years

The genetic, ecological, evolutionary and physiological aspects of animal behavior including the historical background, kin selection, communication, aggression, navigation, and reproductive behavior. With lab.

**Prerequisite:** BIOL 341, BIOL 345**BIOL 430 Immunology (2)****Spring:** All Years

Covers components and functioning of the immune system: emphasizes the experimental process and relationship between basic research and clinical application. Lab optional. **Prerequisite:** BIOL 350, CHEM 160, CHEM 165

**BIOL 435 Immunology Laboratory (1)****Spring:** All Years

Selected methods in antibody-antigen assays and cellular immunology. Concurrent registration in BIOL 430 is required.

**BIOL 438 Pathogenic Microbiology (3)****Spring:** All Years

A survey of the major pathogens causing infectious disease in humans. Emphasis on bacterial pathogens including their cultivation, identification, and pathogenicity. With lab. **Prerequisite:** BIOL 350, BIOL 341 Recommended.

**BIOL 440 Middle School/Secondary Science Teaching Methods (3)****Spring:** All Years

Materials and methods appropriate for middle/junior and senior high school science classes and laboratories. Same as CHEM 440 and PHYS 440. Junior standing in a science education program is required.

**BIOL 455 Wildlife Ecology (3)****Fall:** Even Years

The application of ecological principles to the management of wildlife populations. Population dynamics and field techniques are stressed. With lab and field work. **Prerequisite:** BIOL 345

**BIOL 460 Medical Technology Clinical Education (8-12)****Fall:** All Years **Spring:** All Years

Clinical education in a school of medical technology in an affiliated hospital. Year-long sequence requires a total of 36 credits.

**BIOL 465 Cytotechnology Clinical Education (8-12)****Fall:** All Years **Spring:** All Years

Clinical education in a school of cytotechnology in an affiliated school or clinic. Year-long sequence requires a total of 36 credits.

**BIOL 469 Student Internship in Biology (3-12)****Fall:** Demand **Spring:** Demand

A supervised work experience generally involving research in a governmental agency or the private sector.

**BIOL 470 Undergraduate Laboratory Teaching (1)****Fall:** All Years **Spring:** All Years

Students will serve as undergraduate laboratory teaching assistants in selected biology classes under the supervision of a faculty mentor.

**BIOL 475 Biotechniques I (4)****Fall:** All Years

Advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell culture taught in a research setting. Students will work in teams to prepare research proposals. Same as CHEM 475.

**Prerequisite:** Completion of biotechnology core courses and senior standing in the program**BIOL 476 Biotechniques II (4)****Spring:** All Years

This is the second in the sequence of two semester courses in advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell culture. Research teams will conduct research based on proposals approved during the prerequisite Biotechniques I. Same as CHEM 476.

**Prerequisite:** BIOL 475**BIOL 477 Biotechnology Seminar (1)****Spring:** All Years

Oral presentations by students based on critical evaluations of the scientific literature and research conducted in team-based research projects during Biotechniques II. Concurrent with BIOL 476.

**Prerequisite:** BIOL 475**BIOL 484 Biology Seminar (1)****Fall:** All Years **Spring:** All Years

Oral presentations by students and staff based on critical evaluation of scientific literature and/or independent research.

**BIOL 497 Undergraduate Research In Biology (1-3)****Fall:** All Years **Spring:** All Years

Individual research; project and its format must be accepted by the research advisor prior to registration.

## Business

### **BUS 160 Introduction to Modern Business (3)**

**Fall:** All Years **Spring:** All Years

This course is a survey of business, introducing the major operations of a business, including production, marketing, finance and human resources management. This course also examines the economic, social, and political environment of business. This course cannot be used to satisfy major or minor requirements in any area of business.

### **BUS 498 Business Policy (3)**

**Fall:** All Years **Spring:** All Years

Integrates material learned in the functional business areas through the solving of business policy cases. Capstone course to be taken during student's last semester.

## Chemistry

### **CHEM 102 [B] Survey of Basic Principles of Chemistry (3)**

**Fall:** All Years **Spring:** All Years

Fundamentals of chemistry and applications in modern society. Suitable for those who have had no high school chemistry. Credit not applicable to a chemistry major or minor.

### **CHEM 103 Topics in Introductory Chemistry (1-3)**

**Fall:** Demand **Spring:** Demand

Study of some elementary aspects of chemistry and chemical concepts as applied to topical interest. Designed for the non-science major. Credit not applicable to a chemistry major or minor.

**Prerequisite:** CHEM 102

### **CHEM 104 [B] Environmental Chemistry (3)**

**Spring:** All Years

Study of chemical processes in the environment.

**Prerequisite:** CHEM 102

### **CHEM 110 [B] Fundamentals of Chemistry (4)**

**Fall:** All Years

Introduction to basic chemical principles. Intended for students requiring a year sequence in general, organic, and biochemistry.

### **CHEM 150 [B1] General Chemistry I (3)**

**Fall:** All Years

Fundamental principles of chemistry. Concurrent registration in CHEM 155 required. High school or college algebra recommended.

### **CHEM 155 [B1] General Chemistry Laboratory I (1)**

**Fall:** All Years

Laboratory techniques of general chemistry including qualitative and quantitative analysis. To be taken concurrently with CHEM 150.

### **CHEM 160 [B1] General Chemistry II (3)**

**Spring:** All Years

Fundamental principles of chemistry. Concurrent registration in CHEM 165 required.

**Prerequisite:** CHEM 150

### **CHEM 165 [B1] General Chemistry Laboratory II (1)**

**Spring:** All Years

Laboratory techniques of general chemistry including qualitative and quantitative analysis. To be taken concurrently with CHEM 160. **Prerequisite:** CHEM 155

### **CHEM 180 [1] Introduction to Organic and Biochemistry (4)**

**Spring:** All Years

Introduction to organic chemistry and structure and metabolism of carbohydrates, lipids, proteins, and nucleic acids. Concurrent registration with CHEM 185.

**Prerequisite:** CHEM 110

### **CHEM 185 [B1] Introduction to Organic and Biochemistry Lab (1)**

**Spring:** All Years

To be taken concurrent with CHEM 180. Experiments exploring properties of selected functional groups, enzymes as diagnostic reagents and isolation and properties of carbohydrates, lipids, proteins and nucleic acids.

### **CHEM 300 Inorganic Chemistry I (3)**

**Fall:** All Years

Aspects of bond theory, periodicity, acid-base chemistry, redox chemistry, reaction kinetics, energetics and chemistry of the elements. **Prerequisite:** CHEM 160

### **CHEM 350 Survey of Organic Chemistry: Part I (3)**

**Fall:** All Years

Introduction to the classification, structure, reactions, and reaction mechanisms of carbon compounds.

**Prerequisite:** CHEM 160

### **CHEM 355 Organic Chemistry Laboratory I (1)**

**Fall:** All Years

Techniques for the purification, synthesis, and characterization of organic compounds and the study of organic reactions. **Prerequisite:** CHEM 155

### **CHEM 360 Survey of Organic Chemistry: Part II (3)**

**Spring:** All Years

The structure, nomenclature, reactions, reaction mechanisms, and synthesis of carbon compounds that contain oxygen and nitrogen. **Prerequisite:** CHEM 350

### **CHEM 365 Organic Chemistry Laboratory II (1)**

**Spring:** All Years

Purification, synthesis, and identification of organic compounds, and the study of organic reactions.

**Prerequisite:** CHEM 355

**CHEM 380 Analytical Chemistry I (3)****Spring:** All Years

(2 lecture credits, 1 laboratory credit) Analytical applications of chemical equilibrium. Introduction to separation techniques and spectroscopic methods of analysis and separations. QA/QC addressed.

**Prerequisite:** CHEM 160, CHEM 165**CHEM 400 Biochemistry I (3)****Fall:** All Years

A survey of the chemistry and metabolism of living systems. Topics include structure, function and chemistry of biomolecules, and introduction to metabolism and metabolic pathways.

**Prerequisite:** CHEM 350**CHEM 405 Biochemistry Laboratory I (1)****Fall:** All Years

Representative experiments in the quantitation, isolation and metabolism of naturally occurring substances.

Techniques include: assay development, column chromatography, protein and nucleic acid isolation and analysis, protein electrophoresis, and enzymology.

**Prerequisite:** CHEM 380**CHEM 410 Biochemistry II (3)****Spring:** All Years

A survey of the chemistry and metabolism of living systems and nucleic acids biochemistry. Topics include biosynthetic biochemical pathways and nucleic acids biochemistry, protein synthesis and recombinant DNA theory. **Prerequisite:** CHEM 400

**CHEM 415 Biochemistry Laboratory II (1)****Spring:** Odd Years

Course builds on acquired skills and presented techniques of CHEM 405. New techniques include: use of radionuclides in biochemical research, affinity and high performance liquid chromatography, electrophoresis and an introduction to recombinant techniques. **Prerequisite:** CHEM 405

**CHEM 420 Inorganic Chemistry II (3)****Spring:** All Years

Transition metal chemistry, valence bond, molecular orbital, crystal field, and ligand field theory, molecular symmetry. Bio-inorganic models.

**Prerequisite:** CHEM 300**CHEM 425 Inorganic Chemistry Laboratory (1)****Spring:** All Years

A synthesis and spectroscopic study of inorganic compounds. Techniques include: vacuum line synthesis, high temperature methods, inert gas techniques and organometallic synthesis. **Prerequisite:** CHEM 300

**CHEM 429 Topics in Analytical Chemistry (1-3)****Fall:** Demand **Spring:** Demand

Selected topics such as spectroscopy, electrochemical methods, chemical separations and interfacing instruments with computers.

**CHEM 439 Topics in Biochemistry (1-3)****Fall:** Demand **Spring:** Demand

Selected biochemical topics. Topics may include carbohydrates, lipids, proteins, enzymology, nucleic acids, metabolism or lab techniques such as chromatography, HPLC, and electrolysis.

**CHEM 440 Secondary Science Teaching Methods (3)****Spring:** All Years

Materials and methods appropriate for junior and senior high school classes and laboratories. Must be taken prior to student teaching. Same as BIOL 440 and PHYS 440.

**CHEM 449 Topics in Inorganic Chemistry (1-3)****Fall:** Demand **Spring:** Demand

Selected topics such as coordination chemistry, bonding, acid-base and nonaqueous solvent theory, organometallic chemistry and inorganic biochemist. May be repeated when topic is changed.

**CHEM 450 Physical Chemistry I (3)****Fall:** All Years

A survey of applications of physics and mathematics to chemical phenomena including thermodynamics, kinetics, and electrochemistry.

**Prerequisite:** CHEM 160, MATH 261, PHYS 201 OR PHYS 111**CHEM 455 Physical Chemistry Laboratory I (1)****Fall:** All Years

Measurement of thermodynamic properties of gases, thermochemistry, electrochemistry, transport properties, and treatment of experimental data. Must have had Physics 250 or be concurrently enrolled.

**Prerequisite:** MATH 261, PHYS 201 OR PHYS 111**CHEM 459 Topics in Physical Chemistry (1-3)****Fall:** Demand **Spring:** Demand

Selected topics such as kinetics, statistical thermodynamics or quantum chemistry.

**CHEM 460 Physical Chemistry II (3)****Spring:** All Years

A continuation of physical chemistry 450. Topics include introduction to quantum theory, group theory, spectroscopy and statistical mechanics.

**Prerequisite:** MATH 262, CHEM 450**CHEM 465 Physical Chemistry Laboratory II (1)****Spring:** All Years

A continuation of physical chemistry laboratory 455. Chemical kinetics, spectroscopy and molecular orbital calculations. **Prerequisite:** CHEM 455

**CHEM 469 Student Internship (2-8)****Fall:** Demand **Spring:** Demand

Supervised work experience. For majors only.



**CHEM 475 Biotechniques I (4)****Fall:** All Years

Advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell physiology taught in a research setting. Students will work in teams to prepare research proposals. **Prerequisite:** CHEM 410, CHEM 415, BIOL 385, BIOL 347 OR BIOL 360

**CHEM 476 Biotechniques II (4)****Spring:** All Years

This is the second in the sequence of two semester courses in advanced techniques in biochemistry, bioanalytical chemistry, molecular biology and cell physiology. Research teams will conduct research based on proposals approved during the prerequisite Biotechniques I. **Prerequisites:** CHEM 475

**CHEM 477 Biotechnology Seminar (1)****Spring:** All Years

Oral presentations by students based on critical evaluations of the scientific literature and research conducted in team-based research projects during Biotechniques II. **Prerequisites:** concurrent registration with CHEM 476

**CHEM 479 Topics in Organic Chemistry (1-3)****Fall:** Demand **Spring:** Demand

Selected topics such as natural product chemistry, advanced synthesis, advanced reaction mechanisms, and molecular modeling.

**CHEM 480 Analytical Chemistry II (4)****Fall:** All Years

(3 lecture credits, 1 laboratory credit) Instrumental analysis involving chromatography, spectroscopy and electrochemical techniques. QA/QC addressed.

**Prerequisite:** CHEM 380**CHEM 497 Undergraduate Research (1-3)****Fall:** All Years **Spring:** All Years

Research studies in all areas of chemistry. A research paper and oral presentation are required. May be repeated.

**CHEM 498 Seminar (1)****Fall:** Demand **Spring:** Demand

Presentation of research results.

**Chinese****CHIN 101 [E] Beginning Chinese I (4)****Fall:** All Years

An introduction to the basic sounds and structure of Mandarin Chinese. Intended to provide a foundation in the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Chinese culture is also presented as an integral part of the course.

**CHIN 102 [E] Beginning Chinese II (4)****Spring:** All Years

Fundamentals of Mandarin Chinese, second semester. Continues to develop the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. **Prerequisite:** CHIN 101

**CHIN 132 [F] Introduction to Chinese Culture (3)****Fall:** All Years **Spring:** All Years

An introduction to the major aspects of Chinese culture from ancient times to the present. Topics include language, folklore, festivals, philosophy, religion, family, education, literature and daily life. Lecture, discussion, readings, and films in English.

**CHIN 190 Topics in Chinese Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Chinese language, literature, and culture. May be repeated since content may vary.

**CHIN 201 [E] Intermediate Chinese I (4)****Fall:** All Years

Continued practice and development of the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. An expanded awareness of Chinese culture is also an integral part of the course. **Prerequisite:** CHIN 102

**CHIN 202 [E] Intermediate Chinese II (4)****Spring:** All Years

Continued practice and development of the four language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. An expanded awareness of Chinese culture is also an integral part of the course. **Prerequisite:** CHIN 201

**CHIN 290 Topics in Chinese Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Chinese language, literature, and culture. May be repeated since content may vary.

**CHIN 297 Independent Study in Chinese: Intermediate Level (1-2)****Fall:** Demand **Spring:** Demand

Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits.

**Prerequisite:** CHIN 201

**CHIN 301 Advanced Chinese Grammar (4)****Fall:** All YearsIntensive study and practice of Chinese grammar, vocabulary, and writing. *Prerequisite:* CHIN 202**CHIN 302 Chinese Conversation and Composition (4)****Spring:** All YearsIntensive practice in conversation, composition and stylistics for the development of both oral and written proficiency. Includes extensive reading of graded and culturally authentic materials. *Prerequisite:* CHIN 301**CHIN 390 Topics In Chinese Language, Literature and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Chinese language, literature, and culture. May be repeated since content may vary.

*Prerequisite:* CHIN 202**CHIN 397 Independent Study in Chinese: Advanced Level (1-2)****Fall:** Demand **Spring:** DemandSelected project of advanced studies in Chinese language, literature, or culture as agreed upon by student and instructor. May be repeated up to a total of 4 credits. *Prerequisite:* CHIN 202**Computer Science and Information Systems****CSIS 101 Introduction to the Internet (2)****Fall:** All Years **Spring:** All Years

Introduces the student to the facilities of the Internet for information exchange. Topics covered include search and retrieval tools, file transfer, electronic mail and bulletin board systems. Personal and commercial applications on local area networks and wide area networks are considered.

**CSIS 103 Computer Applications for Business I (3)****Fall:** All Years **Spring:** All Years

Introduction to basic computer concepts including hardware and software. Introduction to and hands-on experience with Windows, Spreadsheets, Wordprocessors and Database Management Systems as used in a business setting. Not both 102 and 103 can be taken for credit.

**CSIS 104 Computer Applications for Business II (3)****Spring:** DemandA continuation of topics and applications covered in CSIS 103. *Prerequisite:* CSIS 103 or equivalent**CSIS 130 BASIC Programming (3)****Fall:** Demand **Spring:** Demand

Introduction to the BASIC programming language and problem solving using structured programming techniques with Visual Basic.

**CSIS 150 Introduction to Computers and Programming I (4)****Fall:** All Years **Spring:** All Years

Introduction to problem solving, algorithm development, elementary data structures, data abstraction, and structured programming in a high-level language.

*Prerequisite:* MATH 142 OR equivalent**CSIS 151 Introduction to Computers and Programming II (4)****Fall:** All Years **Spring:** All YearsContinuation of COMS 150 with emphasis on data structures. Discussion of representations and processing techniques for lists, strings, trees, graphs, and records. *Prerequisite:* CSIS 150**CSIS 220 Digital Logic and Lab (4)****Fall:** All YearsAn introduction to the logical design of computers including Boolean algebra, logical devices, combinational and sequential circuit analysis and synthesis. Includes a three-hour per week laboratory devoted to the implementation and testing in computer logic circuits. *Prerequisite:* CSIS 150**CSIS 240 Introduction to Information Systems (3)****Spring:** All Years

Introduction to the nature and types of information systems and their relationship to the functions of a business enterprise. Introduction to the systems development life cycle, process and data modeling, CASE tools, computer hardware, software, and telecommunications. Introduction to social and ethical issues in computing, Gantt charts, PERT diagrams, fact finding techniques, and project feasibility studies.

*Prerequisite:* CSIS 150**CSIS 250 File Design, Organization and Processing with COBOL (4)****Spring:** All Years

COBOL program structure and syntax including data movement, arithmetic, subprograms, conditionals, interactive COBOL, SORT, MERGE, USAGE, COPY, STRING, UNSTRING, INSPECT. Design, create, load and search tables using SEARCH and SEARCH ALL; Report generation and control break reporting with and without the REPORT WRITER; File design concepts; Create, update and report on SEQUENTIAL, INDEXED and RELATIVE files; I/O concepts, buffering.

*Prerequisite:* CSIS 151**CSIS 251 Assembly Language Programming (3)****Fall:** Demand **Spring:** Demand

Introduction to an assembly language, machine architecture and assembly language programming.

*Prerequisite:* CSIS 220

**CSIS 255 Introduction to C/UNIX (3)****Fall:** Demand

A study of the C programming language. Additional topics relating to the C/UNIX environment will be included. **Prerequisite:** CSIS 151

**CSIS 257 Object Oriented Programming (3)****Spring:** Demand

Introduction to the object oriented programming paradigm, including concepts such as inheritance, information hiding, and polymorphism. The course will provide exposure to the features of object oriented programming languages as well as the advantages and disadvantages of the OOPS paradigm.

**Prerequisite:** CSIS 151**CSIS 290 Topics in Programming Languages (1-3)****Fall:** Demand **Spring:** Demand

A study of programming language topics not offered regularly in other programming courses. May be repeated up to a maximum of 4 credits.

**CSIS 320 Architecture (3)****Spring:** All Years

Basic principles of processor organization, machine instructions, addressing modes, memory management, and input/output operations. **Prerequisite:** CSIS 220

**CSIS 330 Analysis and Design of Algorithms (3)****Fall:** Demand

Apriori and a posteriori complexity analysis. Problem solving strategies: Divide and Conquer, Greedy, Dynamic Programming, Backtracking, and Branch-and-Bound. Applications to AI. Problem state spaces and search strategies. Parallel and Distributed Algorithms. Computability and Undecidability. Complexity Classes.

**Prerequisite:** CSIS 151, MATH 225**CSIS 335 Graphical User Interface Programming (3)****Fall:** Demand **Spring:** Demand

Techniques and tools for the development of graphical user interfaces on a variety of platforms will be discussed. Languages such as Visual C++, Visual Basic, and Motif will be discussed, and projects will be developed using an appropriate tool.

**Prerequisite:** CSIS 240**CSIS 340 Software Engineering (4)****Fall:** All Years

A study of the software development life-cycle including Requirements, Design, implementation, Testing, Maintenance and Quality Assurance. Tools techniques and methods will be studied. Project required.

**Prerequisite:** CSIS 151, CSIS 335, ENGL 387**CSIS 345 Analysis and Design of Information Systems (3)****Fall:** All Years

Use information systems methodologies to solve enterprise wide managerial and organizational problems. Students will use the system development life cycle and other methodologies with CASE tools to develop multi-user systems including using database. Project required. **Prerequisite:** CSIS 151

**CSIS 346 Design, Implementation and Support of information Systems (3)****Spring:** All Years

This course reviews and builds on the concepts, methodologies and tools studied in CSIS 345. An in-depth study of the physical design, implementation and support of multi-user information systems. Project required. **Prerequisite:** CSIS 345

**CSIS 349 Networks and Data Communications (3)****Fall:** All Years

Introduction to concepts and terminology of data communications technology. Local area and Long-haul networks; ISO model, CCITT's X.25 protocol; communications hardware, standards, media, signaling concepts, and channel characteristics; error prevention, detection and correction; distributed data processing and data communications trends. Project required. Students need to have Junior standing as CSIS majors.

**CSIS 355 Systems Software (3)****Fall:** Demand

Introduction concepts in systems programming including assembly, relocation, linking and loading, translation and sequential operating systems. Project required. In addition to the listed prerequisites, CSIS 340 is recommended. **Prerequisite:** CSIS 320 OR CSIS 251, CSIS 340 recommended

**CSIS 358 Introduction to Parallel Computing (3)****Spring:** Demand

History of large scale computing and architectural classification of various parallel processing machines. Measurements of performance and methods of optimization. Dependencies and their influences upon vectorization and parallelism. Introduction to distributed systems, interconnection topologies and communication issues. A platform for parallel programming will be introduced. In addition to the listed prerequisites, CSIS 340 is recommended. **Prerequisite:** CSIS 151

**CSIS 370 Social, Ethical, and Professional Issues in Computing (2)****Fall:** Demand

Ethical questions and societal concerns related to the widespread use of computers and the resulting responsibilities of computer scientists.

**Prerequisite:** SPCH 100, ENGL 387

**CSIS 430 Operating Systems (4)****Fall:** All Years

A study of operating systems as a resource manager with emphasis on memory, process, processor, and file management. **Prerequisite:** CSIS 320, ENGL 387

**CSIS 435 Compilers I (4)****Fall:** All Years

Organization of compilers; transition graphs, lexical analyzers, regular expressions and lexical analyzer generators; context-free grammars, top-down and bottom-up parsers, and parser generators; error recovery. Required project is to design and implement a lexical analyzer and parser. In addition to the listed prerequisites, CSIS 450 is recommended.

**Prerequisite:** CSIS 151, MATH 225**CSIS 440 Computer Networks Software Concepts (3)****Spring:** All Years

This course is designed to give students a foundation in the study of computer networks. Current methods and practices in the use of compute networks to enable communication are covered. The emphasis is on developing an understanding of how to interconnect hardware and how to use the resulting system. The OSI model is used for a pedagogical view of the subject matter, but the DPA model's Process layer is the main subject of the course. Programming project required. In addition to the listed prerequisites, CSIS 255 is recommended. **Prerequisite:** CSIS 430

**CSIS 443 Artificial Intelligence (3)****Spring:** Demand

Introduction to artificial intelligence including theorem proving, heuristic searches, problem solving, compute analysis of scenes, robotics, natural language understanding and knowledge base systems.

**Prerequisite:** CSIS 151**CSIS 444 Database Concepts, Design and Implementation (4)****Fall:** All Years

Basic database concepts, models, management facilities, data structures, storage structures, data definition languages, normalization, transactions, correctness, reliability, distribution, performance analysis. Project required. **Prerequisite:** CSIS 340 OR CSIS 345

**CSIS 445 Graphics (3)****Spring:** Demand

Introduction to graphics display technology and graphics standards. Software issues for scan conversion, interactive graphics, and 2-and 3-dimensional graphics, along with their related mathematical theory are investigated. Project required. **Prerequisite:** CSIS 340

**CSIS 446 Decision Support Systems (3)****Spring:** All Years

Introduction to the concepts and tools used in the development of decision support systems, executive information systems and expert systems including the systems development process and strategy for developing such systems. **Prerequisite:** CSIS 151

**CSIS 448 Database Project (1)****Spring:** All Years

Design, implement and test a database using a commercial Database Management System.

**Prerequisite:** CSIS 444**CSIS 449 Systems Analysis and Design Field Project (3)****Fall:** All Years

Students are assigned to a system development project. The project involves part, but preferably all, of the development cycle. Students work in teams to acquire practical experience in such projects, including the behavioral aspects. Open to CSIS majors only.

**Prerequisite:** CSIS 444**CSIS 450 Programming Languages (3)****Spring:** All Years

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

**Prerequisite:** CSIS 151 and Junior standing in the major**CSIS 469 Internship (3)****Fall:** Demand **Spring:** Demand

Opportunity for students to supplement classroom learning with field work with a computer-using agency. A maximum of 3 credits applicable toward the major.

**Prerequisite:** Junior standing in the major**CSIS 485 Senior Seminar (1)****Fall:** All Years **Spring:** All Years

Library and independent study of advanced computing topics followed by oral and written presentations.

**Prerequisite:** Consent of the instructor**CSIS 490 Topics in Computer Science (1-3)****Fall:** Demand **Spring:** Demand

Discussion of current topics not included in other computer science courses. Up to 3 credits can be applied to the major.

**CSIS 497 Independent Study (1-3)****Fall:** Demand **Spring:** Demand

Independent study of advance topics under guidance of department faculty. Up to 3 credits can be applied to the major.

## Counseling and Student Affairs

### **CNSA 410 Introduction to Counseling (3)**

Basic concepts and principles of counseling.

### **CNSA 420 Basic Counseling Skills (3)**

Basic skills in the one-to-one counseling interview. Improve interpersonal communication skills in listening and responding.

## Criminal Justice

### **CJ 200 Introduction to Criminal Justice (4)**

**Fall:** All Years **Spring:** All Years

Overview of the criminal justice field focusing on the history and description of the contemporary United States system. The overview will include both the adult and the juvenile justice system.

### **CJ 232 Criminal Law (3)**

**Fall:** All Years **Spring:** All Years

Substantive criminal law, development and meaning of principles of criminal law, current issues.

### **CJ 300 Criminology (3)**

**Fall:** All Years

This course examines the following: the nature of crime in America, delinquent behavior, crime statistics, types of crime, crime causation, the process of criminal justice, prisons and corrections. **Prerequisite:** SOC 110, SOC 112

### **CJ 309 Law and Society (4)**

**Fall:** All Years **Spring:** All Years

Relationships of law and society; social forces in law making; dynamics of law administration; social, cultural and behavioral effects of law; history and development of the legal profession; analysis of legal language and reasoning. **Prerequisite:** SOC 110

### **CJ 400 Seminar in Criminal Justice (2)**

**Fall:** All Years **Spring:** All Years

In-depth analysis of one area of the criminal justice system.

### **CJ 430 Minnesota Criminal Law and Procedure (4)**

**Fall:** All Years

The Minnesota criminal statutes as well as the Minnesota rules of criminal procedure are examined. Technical study of police report writing designed to meet the standards of the POST Board licensing examination will be covered. **Prerequisite:** CJ 232 OR POL 232

### **CJ 469 Internship in Criminal Justice (3-12)**

**Fall:** All Years **Spring:** All Years

Credits may not be applied to the criminal justice major.

### **CJ 497 Readings in Criminal Justice (1-3)**

**Fall:** All Years **Spring:** All Years

Selected readings in Criminal Justice under the close supervision of a member of the C J program.

## Economics

A one semester course in principles of economics for non-business and non-economics majors with special emphasis on the American economy.

### **ECON 202 [C] Principles of Economics I: Micro (3)**

**Fall:** All Years **Spring:** All Years

An introductory study of the price system, resource allocation, and income distribution.

### **ECON 204 [C] Principles of Economics II: Macro (3)**

**Fall:** All Years **Spring:** All Years

An introductory study of national income, fiscal and monetary theory and policy, unemployment and inflation.

**Prerequisite:** ECON 202

### **ECON 300 [F] Global Economic Issues (3)**

**Fall:** All Years **Spring:** All Years

An introductory study of global economic issues of a selected region or country from Asia, Africa or Latin America. Topics include international trade theory, views of writers from selected region, economic development, demographic trends, foreign investment, and international distribution of income and wealth.

**Prerequisite:** ECON 202, ECON 204

### **ECON 301 Introduction to Economic Literature and Methodology (3)**

**Fall:** Demand

The organization, presentation and interpretation of economic findings; library resources, methodological problems and paper writing are examined.

**Prerequisite:** ECON 202, ECON 204

### **ECON 302 Intermediate Microeconomic Theory (3)**

**Fall:** All Years

Theories of consumer and producer behavior under various market structures; theory of production and distribution; general equilibrium and welfare criteria.

**Prerequisite:** ECON 202, ECON 204

### **ECON 304 Intermediate Macroeconomic Theory (3)**

**Spring:** All Years

An examination of national income accounting, income determination, employment, growth theory and economic policy. **Prerequisite:** ECON 202, ECON 204

### **ECON 305 [F1] The Economics of Poverty, Discrimination, and Inequality (3)**

**Fall:** Demand **Spring:** Demand

An examination of poverty, discrimination, and income inequality among diverse populations in the United States. Topics include causes of poverty, economics of discrimination in terms of majority and minority groups, and historical perspective of ethnic minorities.

**Prerequisite:** ECON 100 OR ECON 202

**ECON 315 Government and Business (3)****Spring:** Demand

A survey course which includes governmental enforcement of competition, regulation of public utilities, and public enterprise. **Prerequisite:** ECON 202, ECON 204

**ECON 317 History of Economic Thought (3)****Spring:** Demand

The origins and development of economic ideas from ancient times to the present are examined.

**Prerequisite:** ECON 202, ECON 204**ECON 320 Money and Banking (3)****Fall:** All Years **Spring:** All Years

Roles of money, banking and the financial market place; monetary policy; relationship of monetary variables to general economic policy. **Prerequisite:** ECON 204, ECON 202

**ECON 335 Comparative Systems and Economic Development (3)****Fall:** Demand **Spring:** Demand

A survey of alternative economic systems and theories of economic development. Examines the relationship between economic development of a country or group of countries and the economic system it/they have adopted. **Prerequisite:** ECON 300

**ECON 350 Public Finance (3)****Fall:** Demand

Study of taxes and expenditures of federal, state, and local governments and their effects upon economic activity; fiscal policy and national debt.

**Prerequisite:** ECON 202, ECON 204**ECON 370 Quantitative Economic Analysis (3)****Spring:** All Years

Study of quantitative techniques employed in economics. **Prerequisite:** ECON 202, ECON 204

**ECON 390 Topics in Economics (1-3)****Fall:** Demand **Spring:** Demand

Topics of current interest not covered elsewhere in curriculum.

**ECON 411 Economic History of the United States (3)****Fall:** Demand **Spring:** Demand

Survey of the economic history of the United States from the colonial period to the present.

**Prerequisite:** ECON 202, ECON 204**ECON 415 Industrial Organization and Public Policy (3)****Spring:** Even Years

Analysis of market structure, market conduct, and economic performance. It combines the latest theories with empirical evidence about the organization of firms and industries. **Prerequisite:** ECON 202, ECON 204

**ECON 416 Labor Economics (3)****Fall:** All Years

Wage and employment theory, labor unions and other institutions associated with collective bargaining, and social legislation. **Prerequisite:** ECON 202, ECON 204

**ECON 425 International Trade and Finance (3)****Fall:** All Years

Theories and institutions of trade and finance are examined in traditional and contemporary contexts.

**Prerequisite:** ECON 202, ECON 204**ECON 430 Managerial Economics (3)****Fall:** Demand **Spring:** Demand

Integration of quantitative methods and economic theory used in managerial decision-making.

**Prerequisite:** ECON 202, MGMT 360**ECON 469 Internship (1-12)****Fall:** Demand **Spring:** Demand

Supervised economic field work through placement in governmental, volunteer or commercial agencies.

**ECON 497 Individual Study in Economics (1-3)****Fall:** Demand **Spring:** Demand

An individual inquiry into economic issues not dealt with in the regular curriculum. May be repeated for credit.

**Prerequisite:** ECON 300**ECON 498 Economics Seminar (3)****Spring:** All Years

A capstone course requiring a research paper using tools of economic analysis, and a written and oral presentation.

**Education****ED 205 Introduction to Education and Technology (2)****Fall:** All Years **Spring:** All Years

An introduction to the career of teaching along with the development of technology skills. Specific variables related to the teaching as a profession are explored including professional roles and responsibilities, students, curriculum, and the structure of schools. To be taken concurrently with ED 205E.

**ED 205E Early Field Experience (1)****Fall:** All Years **Spring:** All Years

A 40 hour field experience to be taken concurrently with ED 205.

**ED 294 Educational Psychology (3)****Fall:** All Years **Spring:** All Years

Explains psychological theory and research related to learning and instruction in various classroom settings. Field experience included. **Prerequisite:** ED 205 and ED 205E

**ED 310 Social Foundations of Education (3)****Fall:** All Years **Spring:** All Years

Historical, social, and multicultural foundations of education will be studied. Social and ethical issues will be examined with consideration of implications for teaching in order to better understand education within a context of a changing society. A variety of interactive methods will be employed. Students in all teaching licensure programs will enroll in ED 310.

**Prerequisite:** ED 205, ED 205E, ED 294.**ED 343 Curricular Issues (3)****Fall:** All Years **Spring:** All Years

Curricular issues in general education, including standards-based instruction, current educational debates, and practical applications provide the framework for ED 343. This course is required for students earning licensures in Special Education.

**Prerequisite:** ED 205, ED 205E, ED 294, PSY 202**ED 350 Diverse Distance Technologies (2)****Fall:** Demand **Spring:** Demand

Knowledge related to media education with emphasis upon the use of audiovisual media and technology in the classroom. With lab.

**ED 352 Production of Instructional Materials (2)****Fall:** Demand **Spring:** Demand

Basic methods and techniques for the production of graphic, audio and photographic instructional media. With lab.

**ED 367 Practicum: General Education (1)****Fall:** All Years **Spring:** All Years**Prerequisite:** ED205, ED 205E, ED 294**ED 395 Practicum in Multicultural Education (1-3)****Fall:** Demand **Spring:** Demand

Field work (e.g., classroom observations, teacher, student, and principal interviews, evaluation of curriculum materials, classroom assisting) and readings directed towards study of multicultural education. Study includes examination of oppression, dominant and subordinate group ideologies, and value systems to better understand appropriate teaching and learning in culturally and racially diverse classroom settings.

**ED 398 Field Experience in Secondary Education (1-2)****Fall:** All Years **Spring:** All Years

This practicum course provides field work in the student's specific area of study. A seminar will accompany this class. To be taken concurrently with Methods.

**ED 407 Independent Study in Education (1-3)**

Extends study beyond regular course work. May substitute for courses in major with consent of advisor, instructor, and department chairperson. Repeated up to 8 credits.

**ED 408 Human Relations for Educators (3)****Fall:** Demand **Spring:** Demand

Understanding of personal and institutional oppression, socially, historically, psychologically, and educationally, in our culture. Exploring the dynamics of power. Dealing with biases, myths, and stereotypes that affect the teaching/learning relationship and learning how to convey the experiences and contributions of groups within our diverse society.

**ED 418 Sociology of Education (2)****Fall:** Demand **Spring:** Demand

Same as SOC 418.

**ED 443E Classroom Management/Consultation (3)****Fall:** All Years **Spring:** Demand

Understanding and development of skills necessary to create a positive learning environment, encourage appropriate social interactions, and advance engagement in learning. Secondary focus on the development of the professional consultation skills necessary to initiate and apply appropriate and effective teaming techniques across school and home environments. Applications for elementary and early childhood settings will be a focus.

**Prerequisite:** ED 205, ED 294, ED 310**ED 443S Classroom Management/Consultation (3)****Fall:** All Years **Spring:** Demand

Understanding and development of skills necessary to create a positive learning environment, encourage appropriate social interactions, and advance engagement in learning. Secondary focus on the development of the professional consultation skills necessary to initiate and apply appropriate and effective teaming techniques across school and home environments. Applications for K-12 settings will be a focus. **Prerequisite:** ED 205, ED 294, ED 310

**ED 460S Student Teaching: Secondary (5)****Fall:** All Years **Spring:** All Years

Supervised student teaching experience in a middle school or a secondary school (5-12). Applications due as per posted deadlines in Field Experiences Offices.

**Prerequisite:** Ed core and all major coursework**ED 461S Student Teaching: Secondary (10)****Fall:** All Years **Spring:** All Years

Supervised student teaching experience in a middle school or a secondary school (5-12). Applications due as per posted deadlines in Field Experiences Offices.

**Prerequisite:** Ed core and all major coursework**ED 462 Seminar in Secondary Education Student Teaching (1)****Fall:** All Years **Spring:** All Years

Analysis, evaluation, and reflection of teaching experience; assuming responsibility for establishing positive relationships with students, colleagues, and parents; making choices among competing and conflicting demands felt by teachers. This course must be taken concurrently with student teaching.

**ED 465S Student Teaching (5-10)****Fall:** Demand **Spring:** Demand

Student teaching experience to qualify for additional licensure or supplemental student teaching experience. Advisor and consent of instructor required.

**ED 469 Student Internship Program (2-10)****Fall:** Demand **Spring:** Demand

Opportunities for on-the-job experience. Appropriate for students with individualized majors.

**ED 470 Educational Alternatives for Learning (1-2)****Fall:** Demand **Spring:** Demand

Construction of both established and innovative educational programs.

**ED 471 Issues in Education (1-2)****Fall:** Demand **Spring:** Demand

Seminar to examine current issues and trends in specific areas of education.

**ED 482 Information Technology for Teachers (2)****Fall:** Demand **Spring:** Demand

An introduction to information technology in education including the use of technology, computers, and multimedia in education with attention to traditional curriculum, pupil characteristics, and the use of technology in lesson development.

**Prerequisite:** CSIS 103**ED 490 Topics in Education (1-3)****ED 494 Study Tour in Comparative and International Education (4)****Fall:** Demand **Spring:** Demand

Field study in selected countries through conferences with educators, schools, universities, ministry visitation and conferences. Open to non-majors.

**ED 497 Readings in Education (1-2)****Fall:** Demand **Spring:** Demand

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

**EECE 280 Introduction to Early Childhood Education (2)****Fall:** All Years

Overview of all aspects of programming for children ages birth to eight and their parents. Terminology, history, and major issues will also be covered.

**EECE 291 Foundations of Literacy (3)****Fall:** All Years **Spring:** All Years

Early language acquisition, perception, and literacy development; and an introduction to and overview of the reading-learning process. Includes the impact of sociological and cultural factors on literacy.

**EECE 297 Independent Study in Education (1-3)****Fall:** Demand **Spring:** Demand

Extends study beyond regular course work at the sophomore level.

**EECE 333 Discovery Learning (3)****Fall:** All Years **Spring:** All Years

Developmentally appropriate practices focusing on methods and materials in art, literature, music, math, science, and social/multicultural studies. Emphasis: focusing on constructivist approaches to hands-on discovery learning of children birth-8.

**EECE 334 Play and Development (3)****Fall:** All Years **Spring:** All Years

Importance of play on the development of children with and without disabilities, birth to age 8, along with developmentally appropriate strategies for guiding children's behavior.

**EECE 335 Parent-Child Relations in Contemporary Families (3)****Fall:** Demand

A study of the impact of parenting on children's development. Includes family structures and functions, life stressors, and the role of culture in parenting. Includes methods and materials in parent education.

**EECE 341A Reading and Language Arts I: Pre-Primary-Grade 6 (3)****Fall:** All Years **Spring:** All Years

An integrative approach to learning and teaching the language arts in pre-Kindergarten through 6th grade, with an emphasis on strategies for helping these children develop knowledge and skills through the use of literature from the content areas.

**EECE 341B Reading and Language Arts I: Kindergarten-Grade 8 (3)****Fall:** All Years **Spring:** All Years

An integrative approach to learning and teaching the language arts in Kindergarten through Grade 8 with an emphasis on strategies for helping these children develop knowledge and skills through the use of literature from the content areas.

## Elementary and Early Childhood Education

**EECE 230 Child Development for Teachers (3)****Fall:** All Years **Spring:** All Years

Study of the growth and development of children with and without disabilities from conception to age twelve. Includes the relationship of development to learning and its implications for teaching.

**EECE 269 Field Experience: (1-3)****Fall:** Demand **Spring:** Demand

Opportunities to work with students and in selected settings.



**EECE 342 Curriculum Foundations (3)****Fall:** Demand **Spring:** Demand

Foundations of K-12 curriculums in Language Arts, Science, and Social Studies. Designed for Special Education Teaching majors. Concurrent with EECE 467P. **Prerequisite:** ED 205E, ED 294

**EECE 367J Intermediate Practicum/Elementary Teaching (1-4)****Fall:** All Years **Spring:** All Years

Observation of children in classroom setting; assisting classroom teacher and teaching selected lessons under supervision. Students should have taken Ed 205E. This course must be taken concurrently with or following EECE 341 or EECE 441. **Prerequisite:** ED 205E

**EECE 369 Field Experience: (1-3)****Fall:** Demand **Spring:** Demand

Opportunities to work with students and curriculum in selected settings.

**EECE 375 Contemporary Methods in Early Childhood Literacy (2)****Fall:** All Years **Spring:** All Years

This course will extend the knowledge of appropriate strategies for supporting the development of literacy in classrooms for children from ages 3 to 8 years. The issues surrounding best practices in literacy for young children will also be explored. **Prerequisite:** ED 294, EECE 230, EECE 291

**EECE 388 Classroom Assessment (3)****Fall:** All Years **Spring:** All Years

This course provides an overview of the major types of assessment methods used by teachers to evaluate student performance and improve instruction. Specifically, the course will address the use and interpretation of portfolios, standardized tests, authentic assessment, alternative assessment, standards-based assessment and performance assessment.

**Prerequisite:** ED 205E, ED 294**EECE 397 Independent Study in Education (1-3)****Fall:** Demand **Spring:** Demand

Extends study beyond regular course work at junior level.

**EECE 421 The Gifted Child (2)****Fall:** Demand **Spring:** Demand

Definition, identification and current school program for the mentally-superior or specially-talented child. (Same as SPED 421/521.)

**EECE 422 Curriculum and Methods for the Gifted (2)****Fall:** Demand **Spring:** Demand

Exploration of ways to construct a curriculum suitable for the education of gifted students at elementary and secondary levels. Same as SPED 422/522.

**Prerequisite:** EECE 421**EECE 425 Improvement of Instruction in Reading and Language Arts (2)****Fall:** Demand **Spring:** Demand

Assist preservice and inservice teachers in identifying and practicing teacher skills and strategies needed to effectively utilize reading and successfully integrate the language arts modes in the classroom.

**EECE 430 Infant/Toddler Programs and Practices (3)****Fall:** All Years **Spring:** Demand

An orientation to planning and implementing programs for children ages birth to three years and their families. Guidelines for supporting development and for providing quality physical care will be examined. A field experience in an infant or toddler classroom accompanies this course. **Prerequisite:** EECE 230, EECE 291, ED 294

**EECE 431 Child Study/Adaptations for Inclusion (3)****Fall:** All Years **Spring:** all Years

Child Study and Adaptations for Inclusion takes an in-depth look at child study and informal assessment for planning, modifications, and adaptations for children with and without disabilities, who are ages birth through age eight in inclusive classrooms.

**Prerequisite:** EECE 230, EECE 291, SPED 320**EECE 433 Preschool and Kindergarten Curriculum (3)****Fall:** All Years **Spring:** All Years

This course will provide the student with the skills and knowledge necessary to plan and implement curriculum in programs serving pre-school and kindergarten children and their families. Students apply integrated curriculum planning and demonstrate advanced use of developmentally appropriate practices and strategies for these age groups. Students must also enroll in an accompanying practicum. **Prerequisite:** ED 205, ED 205E, ED 294, EECE 333, EECE 230

**EECE 434 Kindergarten Education (3)****Spring:** Demand

Overview of kindergarten education, including issues, environments, curriculum, instruction, and assessment. Required for kindergarten licensure.

**EECE 435 Parent-Professional Relations (3)****Fall:** Demand **Spring:** All Years

Models of implementing home-school collaboration. Barriers, strategies, communication, consultation, and cross-cultural sensitivity are included. Parent education curricula, teaching the adult learner, and group process will also be covered.

**EECE 436 Administration of Early Childhood Education Programs (3)****Fall:** Demand

Focuses on the competencies entailed in administering both small and large-scale programs for children from birth to age 8. Concentrates on all facets of staffing, supervising, budgeting, and operating early childhood programs including an in-depth look at legal issues.

**EECE 441A Children's Literature: Content and Methods, Pre-Primary-Grade 6 (3)****Fall:** All Years **Spring:** All Years

Close reading and study of children's literature—folktales, myth, hero tales, picture books, poetry, modern fantasy, and realism. Emphasis is on the nature of children's literature, literature from diverse cultures, criteria for selection, and strategies for reading/teaching literature as a content area. This course is intended for elementary and early childhood students who seek pre-Kindergarten through Grade 6 licensure.

**EECE 441B Children's Literature: Content and Methods, Kindergarten-Grade 8 (3)****Fall:** All Years **Spring:** All Years

Close reading and study of children's literature—folk tales, myth, hero tales, picture books, poetry, modern fantasy, and realism. Emphasis is on the nature of children's literature, literature from diverse cultures, criteria for selection, and strategies for reading/teaching literature as a content area in the elementary school. This course is intended for elementary and early childhood students who seek Kindergarten through Grade 8 licensure.

**EECE 445 Remedial and Corrective Reading (3)****Fall:** Demand **Spring:** Demand

Presentation of special methods and materials in teaching reading to disabled readers at the primary, intermediate and secondary level. Same as SPED 445

**EECE 446 Remedial and Corrective Reading Clinic (1)****Fall:** Demand **Spring:** Demand

Supervised practice in remediating children with reading disabilities at the primary, intermediate and secondary levels. Same as SPED 446. **Prerequisite:** SPED 445 OR EECE 445

**EECE 448 Reading Study Skills in the Content Areas (3)****Fall:** All Years

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

**EECE 449 Linguistics in Reading (3)****Spring:** All Years

Establishes a foundation of linguistic principles and language processing as basis for understanding reading as a communication process. Required for ESL licensure.

**EECE 467F Practicum/Elementary Teaching (1-4)****Fall:** All Years **Spring:** All Years

Observation of children in classroom setting assisting classroom, teacher; teaching selected lessons under supervision. Taken concurrently with selected elementary methods courses. May include seminar. Can be repeated with permission of EECE chair.

**EECE 467I Practicum: Infant and Toddler (1-4)****Fall:** All Years **Spring:** All Years

Observation of children in a classroom setting assisting classroom teacher—teaching selected lessons under supervision. May include seminar and may be repeated.

**EECE 467K Practicum: Pre-Primary (1-4)****Fall:** All Years **Spring:** All Years

Observation of children in a classroom setting assisting classroom teachers—teaching selected lessons under supervision. May include seminar and may be repeated.

**EECE 467P Curriculum Foundations Practicum (1-4)****Fall:** All Years **Spring:** All Years

Designed for Special Education majors. Includes observations and teaching selected lessons under direction of teachers in K-6 and in 7-12 classrooms.

**EECE 469 Internship (1-4)****Fall:** All Years **Spring:** All Years

Opportunities to work with students and curriculum in selected settings.

**EECE 469C Intern: Early Childhood (2)****Fall:** All Years **Spring:** All Years

Administrative experience in early childhood programs.

**EECE 472 Building the Classroom Community (2)****Fall:** Demand **Spring:** Demand

Experience with three levels of classroom management: pedagogical level, guidance level, and humanistic level such as conflict resolution. Concurrent with selected elementary education courses and practicum with instructor observation and feedback.

**EECE 473 Practicum in Early Childhood Education (2-10)****Fall:** Demand **Spring:** Demand

Supervised practicum experience with prekindergarten children. Analysis and evaluation of classroom procedures and development of young children.

**EECE 474 Methods in Teaching Elementary Science and Environmental Education (3)****Fall:** All Years **Spring:** All Years

Content, philosophy, and organization of science and environmental education program; emphasizing integration across the curriculum and development of critical thinking, and methods of instruction and assessment.

**EECE 475 Reading and Language Arts II (3)****Fall:** All Years **Spring:** All Years

An integrative approach to learning and teaching the language arts in the elementary school. Emphasis on the role of literature in planning, organizing, and assessing reading and writing instruction.

**EECE 476 Methods in Teaching Elementary Social Studies (3)****Fall:** All Years **Spring:** All Years

Content, philosophy, and organization of social studies program; methods of instruction and curricular issues.

**EECE 477 Early Childhood/Kindergarten Workshop (1-2)****Fall:** Demand **Spring:** Demand

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

**EECE 478 Professional Teacher (3)****Fall:** Demand **Spring:** Demand

Focuses on the study of education and the rights and responsibilities of the individual teacher within the school setting. Course content includes objectives listed in the Minnesota Board of Teaching licensure requirements.

**EECE 479 Seminar in Early Childhood Student Teaching (1)****Fall:** All Years **Spring:** All Years

Analysis, evaluations, reflections on one's own teaching; taking responsibility for establishing positive relationships with students, colleagues and parents. Making choices among competing and conflicting demands felt by teachers. Concurrent with student teaching.

**EECE 480E Student Teaching: Elementary (5)****Fall:** All Years **Spring:** All Years

Supervised student teaching experience in an elementary school.

**EECE 481E Student Teaching: Elementary (10)****Fall:** All Years **Spring:** All Years

Supervised teaching experience in an elementary school.

**EECE 483 Elementary Student Teaching Seminar (1)****Fall:** Demand **Spring:** Demand

Analysis, evaluation, and reflection on teaching experience; assuming responsibility for establishing positive relationships with students, colleagues, and parents; making choices among competing and conflicting demands felt by teachers. Concurrent with student teaching.

**EECE 485E Student Teaching: Elementary (5-10)****Fall:** All Years **Spring:** All Years

Student teaching experience to qualify for additional licensure or supplemental student teaching experience.

**EECE 485I Student Teaching: Infant /Toddler (1-10)****Fall:** All Years **Spring:** All Years

Student teaching at infant/toddler level.

**EECE 485K Student Teaching: Kindergarten (5)****Fall:** All Years **Spring:** All Years

Student teaching experience kindergarten children.

**Prerequisite:** EECE 334, EECE 433**EECE 485P Student Teaching: Preschool (1-10)****Fall:** All Years **Spring:** All Years

Student teaching at preschool level. Applications required by posted deadline prior to field experience. Departmental approval needed.

**EECE 488 Contemporary Issues and Ethics in Early Childhood Education (2)****Spring:** All Years

A capstone course to be taken near the end of student's course work in early childhood and early childhood/special education. Includes the synthesis of major ideas in the field and encourages independent scholarship using library research, discussion, written and oral presentations, and advocacy skills.

**EECE 494 Educational Alternatives for Learning (1-2)****Fall:** Demand **Spring:** Demand

Construction of both established and innovative educational programs. May be repeated.

**EECE 496 Issues in Education (1-2)****Fall:** Demand **Spring:** Demand

Seminar to examine current issues and trends in specific areas of education. May be repeated.

**EECE 497 Readings in Education (1-2)****Fall:** Demand **Spring:** Demand

Extends study beyond regular course work.

## Engineering

### ENG 113 Engineering Graphics / CAD (3)

**Fall:** All Years **Spring:** All Years

Principles and applications of graphical communication, analysis, and visualization. Content includes design techniques, sketching, geometric construction, pictorials, and multiview drawings. Computer-Aided Drawing (CAD) in both 2D and 3D modes emphasizing visualization encompass 50 percent of class assignments.

### ENG 130 Introduction to Engineering (2)

**Fall:** All Years

Introduction to engineering fields, tools and methods for problem solving. Designed for students exploring career options in engineering.

### ENG 200 Surveying (3-4)

**Spring:** All Years

Use and adjustment of surveying instruments; measurements by tape, electronic, and stadia methods; topographic surveying; coordinate systems, earthwork areas and volumes.

### ENG 228 Computer Applications for Engineers and Technologists (3)

**Fall:** All Years **Spring:** All Years

The stand alone and integrated application of computer software tools such as spreadsheets, word processors, database management systems, graphics and other productivity software to problem solving contexts specific to the disciplines of Engineering and Technology. **Prerequisite:** CSIS 103

### ENG 230 Manufacturing Processes (3)

**Fall:** All Years

A survey course including information on traditional and non-traditional manufacturing processes. Hands-on lab experiences in metal, wood, synthetics and welding processes.

### ENG 231 Welding Processes (2)

**Fall:** Demand

An introduction to welding processes, safety, and applications in industry. Lab experiences in a variety of welding processes.

### ENG 232 Machining Processes (2)

**Fall:** Demand

An introduction to metal machining processes including machine operations and safety. Industrial applications and lab experiences with basic machine tools.

### ENG 243 Engineering Mechanics I: Statics (3)

**Spring:** All Years

Vector algebra. Application of equations of equilibrium to the analysis of simple engineering structures and machines. Nature and influence of friction. Elementary theory of statically determinate framed structures.

**Prerequisite:** MATH 261

### ENG 244 Engineering Mechanics II: Dynamics (3)

**Fall:** All Years

Principles of kinematics, particle systems and plane rigid bodies, and vector calculus in solving problems.

**Prerequisite:** ENG 243

### ENG 245 Engineering Mechanics III: Materials (3)

**Spring:** All Years

Application to problems of stress and strain at a point, stress-strain relations in two dimensions, linear theory of torsion, bending stresses, deflection of determinate and indeterminate beams and instability.

**Prerequisite:** ENG 243

### ENG 291 Materials Inspection and Testing (1)

**Spring:** Demand

A study of methods, materials and techniques of inspection and testing of industrial materials and products; quality control.

## English

### ENGL 101 [A] Composition and Literature I (4)

**Fall:** All Years **Spring:** All Years

Numerous written assignments and readings in non-fiction and/or short fiction; general introduction to the use of the library.

### ENGL 102 [A] Composition and Literature II (4)

**Fall:** All Years **Spring:** All Years

Composition and literature (drama and poetry).

**Prerequisite:** ENGL 101

### ENGL 211 [D1] Major British Writers I (4)

**Fall:** All Years

Selected major writers through Milton. Some attention to literary criticism and research techniques.

**Prerequisite:** ENGL 101, ENGL 102

### ENGL 212 [D1] Major British Writers II (4)

**Spring:** All Years

Selected major writers, Enlightenment through Romantics, Victorians and Moderns. Some attention to literary criticism and research techniques.

**Prerequisite:** ENGL 101, ENGL 102

### ENGL 214 [D1] Introduction to Shakespeare (3)

**Fall:** Demand **Spring:** Demand

A study of representative plays and poems.

**Prerequisite:** ENGL 101, ENGL 102

### ENGL 230 Individual Authors (3)

**Fall:** Demand **Spring:** Demand

Study of one or two major or influential authors.

**Prerequisite:** ENGL 101, ENGL 102

### ENGL 234 [D1] Mythology (3)

**Fall:** Demand **Spring:** Demand

Introduction to the great myths of Greece and Rome and their influence upon later literature.

**Prerequisite:** ENGL 101, ENGL 102

**ENGL 240 [D] Masterworks (3)****Fall:** Demand **Spring:** DemandExtensive reading in a particular literary genre—novel, drama, or poetry. **Prerequisite:** ENGL 101, ENGL 102**ENGL 241 [D] Modern American Literature (3)****Fall:** Demand **Spring:** DemandSelected major figures of 20th-century American Literature. **Prerequisite:** ENGL 101, ENGL 102**ENGL 246 [D1] Women in Literature (3)****Fall:** Demand **Spring:** DemandA study of the various ways women are depicted in imaginative literature and expository prose. Readings vary. **Prerequisite:** ENGL 101, ENGL 102**ENGL 248 [F1] Introduction to American Ethnic Literature (3)****Fall:** Demand **Spring:** DemandSignificant writers and selected works representing several minority ethnic backgrounds, including African, Asian, Hispanic, and Native American. Repeatable if content changes. **Prerequisite:** ENGL 101, ENGL 102**ENGL 280 [F] World Literature: East and West (3)****Fall:** All Years **Spring:** DemandSelected writers or literary traditions in world literature with at least one-half of the course focusing on the non-western literature. **Prerequisite:** ENGL 101, ENGL 102**ENGL 281 [D] World Literature (3)****Fall:** Demand **Spring:** DemandSelected writers or literary traditions in Western world literature. **Prerequisite:** ENGL 101, ENGL 102**ENGL 285 [E] Writing for Film and TV (4)****Fall:** Demand **Spring:** Demand

Techniques and approaches to writing scripts for film and television: dramatic stories, adaptations from other sources. Students will analyze scripts and write scripts, for short films or T.V. programs.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 286 [E] Practical Writing (3)****Fall:** Demand **Spring:** DemandStudy and practice in writing non-academic material linked to the experiences of daily life and to practical career situations. **Prerequisite:** ENGL 101, ENGL 102**ENGL 288 Introduction to Creative Writing (3)****Fall:** Demand **Spring:** Demand

Practice in the writing of poetry, short fiction, or drama.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 290 Special Topics (3)****Fall:** Demand **Spring:** Demand

Study of a particular literary topic: special approaches or procedures related to the study of language or literature.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 300 Junior Level Composition/Literature Course (3)****Fall:** Demand **Spring:** Demand

Students will write a minimum of four papers, one in the vicinity of 2,000 words, and will study selected literary topics, including poetry, fiction, or expository prose. Instructor may organize the class thematically.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 301 [D1] Medieval British Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major authors and works, sometimes in comparison with European counterparts, exclusive of Chaucer. **Prerequisite:** ENGL 101, ENGL 102**ENGL 302 [D1] 16th-Century British Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major authors from More through the lyricists of the 1590s. **Prerequisite:** ENGL 101, ENGL 102**ENGL 303 [D1] 17th-Century British Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major authors from Donne and Jonson to Browne. **Prerequisite:** ENGL 101, ENGL 102**ENGL 304 [D1] Restoration and 18th-Century British Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major authors from Dryden to Dr. Johnson. **Prerequisite:** ENGL 101, ENGL 102**ENGL 305 [D1] The Romantic Movement (3)****Fall:** Demand **Spring:** Demand

Study of selected authors from Burns to Keats.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 306 [D1] The Victorian Period (3)****Fall:** Demand **Spring:** Demand

Study of selected major authors from Carlyle to Hardy.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 307 [D1] 20th-Century British Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major British authors from the 1890s to the present. **Prerequisite:** ENGL 101, ENGL 102**ENGL 308 [D1] 19th-Century American Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major American authors of the 19th century. **Prerequisite:** ENGL 101, ENGL 102**ENGL 309 [D] 20th-Century American Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected major American authors of the 20th century. **Prerequisite:** ENGL 101, ENGL 102**ENGL 314 [D1] Topics in Shakespeare (3)****Fall:** All Years **Spring:** All Years

A close examination of Shakespeare's major works, usually divided into tragedy and comedy. Video sessions and "genre" readings generally incorporated. May not be repeated for liberal studies credits. Majors may repeat this topical course once when content varies.

**ENGL 330 Individual Authors (2-3)****Fall:** Demand **Spring:** Demand

Intensive study of one or two significant authors.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 332 Film and the Novel (3)****Fall:** Demand **Spring:** DemandComparative analysis of major novels and their screen adaptations. Focus on aesthetic and interpretative similarities and differences. **Prerequisite:** ENGL 101, ENGL 102**ENGL 340 Genre Studies (3)****Fall:** Demand **Spring:** Demand

Extensive reading in a particular literary genre—short story, novel, poetry, drama, or epic.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 343 [D1] Development of Drama I (3)****Fall:** All Years

Representative readings in dramatic literature from Greek theatre to the present day. Greek and Roman tragic and comic playwrights, Aristotelian criticism, and classical theatre history. Early native farce, religious drama, and the drama and theatrical innovations of the Renaissance through the 18th century.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 344 [D1] Development of Drama II (3)****Spring:** All YearsRepresentative readings in dramatic literature from Greek theatre to the present day. The drama of the modern era, beginning with the 19th century Romantics, viewed as a revolutionary, cultural, political and artistic force. **Prerequisite:** ENGL 101, ENGL 102**ENGL 350 Practical Criticism (3)****Fall:** Demand **Spring:** Demand

Practice in critical evaluation of literary works.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 354 Non Fiction Writing (3)****Fall:** Demand **Spring:** Demand

Writing of non-fiction prose; partly a dialogue on the form and theory of non-fiction, but mainly a workshop centered on the practice of non-fiction writing.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 364 [E] American English (3)****Fall:** Demand **Spring:** Demand

A survey of American dialects—both regional and social—their characteristics, origins, causes and development, including Chicano and Black English.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 365 Language and Learning (3)****Fall:** All Years

An interdisciplinary approach to theories of language development, and language as a mode of learning.

**Prerequisite:** ENGL 101, 2 ENGL 102**ENGL 371 [D1] Survey of American Literature I (4)****Fall:** All Years

Historical and critical study from colonial writings through American Romanticism and the transition to Realism; may include such authors as William Bradford, Anne Bradstreet, Jonathan Edwards, Benjamin Franklin, Thomas Jefferson, Thomas Paine, James Fenimore Cooper, Washington Irving, Ralph Waldo Emerson, Nathaniel Hawthorne, Herman Melville, Henry David Thoreau, Edgar Allan Poe, Frederick Douglass, Harriet Beecher Stowe, W.D Howells, Emily Dickinson, Walt Whitman, and Samuel Clemens.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 372 [D1] Survey of American Literature II (4)****Spring:** All YearsHistorical and critical study from 19th Century American Realism to the present; may include such authors as Henry James, Stephen Crane, Kate Chopin, Theodore Dreiser, Sinclair Lewis, Edith Wharton, Robert Frost, T.S. Eliot, Ezra Pound, William Carlos Williams, Wallace Stevens, Willa Cather, Ernest Hemingway, F. Scott Fitzgerald, William Faulkner, John Steinbeck, Ralph Ellison, and Toni Morrison. **Prerequisite:** ENGL 101, ENGL 102**ENGL 380 World Literature (3)****Fall:** Demand **Spring:** DemandStudy of selected world masterpieces grouped by theme or genre. **Prerequisite:** ENGL 101, ENGL 102**ENGL 387 [E] Technical Report Writing (4)****Fall:** Demand **Spring:** Demand

Expository writing dealing with subjects in student's major and planned for a specialized audience: documenting, writing abstracts, preparing reports of original investigations. Recommended for students who have taken classes in their major.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 388 Creative Writing (3)****Fall:** Demand **Spring:** Demand

The writing of poetry, short fiction, plays, or film. Partly a dialogue on contemporary writing, but mainly workshop.

**Prerequisite:** ENGL 288**ENGL 390 Special Topics (2-3)****Fall:** Demand **Spring:** Demand

Study of a particular literary genre, topic, or theme.

**Prerequisite:** ENGL 101, ENGL 102**ENGL 394 Advanced Composition (3)****Spring:** All Years

Principles of clear and effective writing, elements of the writing process, research and methods in teaching, responding to, and evaluating writing.

**Prerequisite:** ENGL 101, ENGL 102

**ENGL 395 Theory and Methods of Tutoring (3)****Spring:** All Years

Presentation and discussion of theories and methods for conference teaching and the writing process. Writing and responding to writing to facilitate thinking about the course content. Observing and conducting tutorial sessions to gain hands-on experience in tutoring. This course is a prerequisite for students who wish to work as tutors in The Write Site. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 409 Studies in American Literature (3)****Fall:** Demand **Spring:** Demand**Prerequisite:** ENGL 102**ENGL 410 [D] Studies in British Literature (3)****Fall:** Demand **Spring:** Demand

Study of selected topics, movements, or genres. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 411 [D1] Chaucer (3)****Fall:** Demand **Spring:** Demand

Study of selected major works and their background **Prerequisite:** 01 1 ENGL 101, ENGL 102

**ENGL 412 [D1] Spenser (3)****Fall:** Demand **Spring:** Demand

Study of selected major works and their background. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 416 [D1] Milton (3)****Fall:** Demand **Spring:** Demand

Study of selected major works and their background. **Prerequisite:** 01 1 ENGL 101, ENGL 102

**ENGL 430 Individual Authors (3)****Fall:** Demand **Spring:** Demand

Intensive study of one or two significant authors. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 450 Critical Traditions (3)****Fall:** Demand **Spring:** Demand

Principal works of literary aesthetics and criticism from selected periods in history. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 461 Introduction to Descriptive Linguistics (3)****Fall:** Demand **Spring:** Demand

A broad survey of the field of descriptive linguistics. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 463 [E] History of the English Language (3)****Fall:** Demand **Spring:** Demand

A survey of the early history of the English language, its sounds and its grammar, emphasizing Old English and its literature or Middle English and its literature. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 469 Internship: Writing (1-12)****Fall:** Demand **Spring:** Demand

Supervised employment requiring substantial writing practice in government or private agency. Repeatable up to a total of 12 credits. All credits apply toward graduation, but only three may count toward a major or writing minor in English. Six credits accepted toward the B.A., Writing Emphasis.

**ENGL 480 Advanced World Literature (3)****Fall:** Demand **Spring:** Demand

Intensive study of selected world masterpieces from one language, in translation. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 485 Topics: Authors (1-2)****Fall:** Demand **Spring:** Demand**Prerequisite:** ENGL 102**ENGL 487 Advanced Technical Report Writing (3)****Fall:** Demand **Spring:** Demand

Process-oriented writing class culminating in a formal feasibility study and/or formal grant proposal, requiring a consultant in the student's major discipline - emphasizing collaborative work, documentation style, abstracts, business ethics, and annotated bibliographies. **Prerequisite:** ENGL 387 OR permission of instructor

**ENGL 488 Advanced Creative Writing (1-3)****Fall:** Demand **Spring:** Demand

Advanced work in writing of poetry, short fiction, plays or film. Usually offered as a tutorial or independent study. Student may repeat it once when genre changes. **Prerequisite:** ENGL 388

**ENGL 491 Teaching English in Secondary Schools (3)****Spring:** All Years

Current practices in teaching secondary English; possible observation of secondary classes; discussion of curriculum, approaches, and techniques. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 492 Transformational Grammar (3)****Fall:** Demand **Spring:** Demand

An introduction to a theory of grammar that describes and explains how sentences are created. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 493 Grammars of English (3)****Spring:** All Years

A survey of the history of language study, of the history of the English language, and of the various kinds of grammars: traditional, structural, and transformational. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 494 Teaching Adolescent Literature and Reading (3)****Fall:** All Years

Review of current trends in adolescent and young adult literature. Approaches and techniques for teaching reading and for studying literature in junior and senior high school. May be repeated after five years with consent of instructor. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 495 Advanced Study in Language or Literature (1-3)****Fall:** Demand **Spring:** Demand

Study of selected topics, individual authors, genres or movements in linguistics or in American, British or world literature. The course may be offered as a seminar, as an independent study, or as a adjunct to another class taught by the same instructor. Repeatable when subject matter varies. **Prerequisite:** ENGL 101, ENGL 102

**ENGL 496 Capstone Seminar (4)****Fall:** All Years **Spring:** All Years

Study of selected topics, individual authors, genres or movements in linguistics or in American, British or world literature. The seminar, required of all B.A. and B.S. majors, is offered once per semester. It includes multiple approaches to analyzing literature and a documented research paper of substantial length with an extensive annotated bibliography.

**ENGL 497 Tutorial (1-3)****Fall:** Demand **Spring:** Demand

The consideration of various problems in literature or language agreed upon by the instructor and the student.

**FINC 340 Financial Management (3)****Fall:** All Years **Spring:** All Years

Students are introduced to the principles of finance. Basic issues of business finance including investment, financing and dividend policies are explored. Students learn about the functioning and regulations of financial markets. Students must have Junior standing.

**Prerequisite:** ACCT 231**FINC 352 Principles of Insurance and Risk Management (3)****Fall:** Demand **Spring:** Demand

This course provides a study of the basic concepts of business and personal risks from the standpoint of creation, identification, reduction, elimination, and evaluation of risks. The use of insurance in meeting problems of risk is also covered in this course.

**FINC 354 Real Estate Finance and Investments (3)****Fall:** Demand **Spring:** Demand

This course is a study of valuation, financial analysis, and investment analysis of real estate. Real estate development and financing sources are examined. Federal income taxes as they affect real estate investment are also considered.

**Prerequisite:** FINC 340**FINC 360 Principles of Investment (3)****Fall:** All Years **Spring:** All Years

This course provides a basic understanding of the functioning of securities markets, individual investment alternatives, issues involved in investment theory and practice, and investment analysis and valuation. Emphasis is placed on the understanding of the background terminology and risk/return characteristics of different investment opportunities.

**Prerequisite:** FINC 340**FINC 406 Small Business Management Consulting (1-2)****Fall:** All Years **Spring:** All Years

Practicum in providing management assistance to small businesses. May be retaken for a total of 3 credits. Students must have Senior standing.

**FINC 425 Bank Management (3)****Fall:** Demand **Spring:** Demand

This course applies traditional finance concepts to the management of commercial banks. It emphasizes decision making and specific problem-solving techniques. The course provides a basic understanding of the issues confronting bank managers today, fundamental financial models, and the risk/return impacts of various credit, investment, operational, and funding decisions. **Prerequisite:** FINC 340, FINC 325

**Finance****FINC 240 Personal Financial Planning (3)****Fall:** Demand **Spring:** Demand

This course emphasizes the importance of personal financial management. This course will explore issues in individual financial planning and budgeting, management of money, and protection against losses. This course also introduces the student to principles of investments, and risk and return characteristics of several investment alternatives. This course cannot be used to satisfy major or minor requirements in any area of business.

**FINC 325 Financial Institutions and Markets (3)****Spring:** All Years

In this course, students are introduced to principles of managing and understanding the behavior of financial institutions—banks, credit unions, insurance companies, pension funds, and other financial service firms. Students are provided with the concepts, management tools, and institutional information essential for a basic knowledge of these financial institutions.

**Prerequisite:** ECON 320, FINC 340



**FINC 441 Advanced Financial Management (3)****Spring:** All Years

This course provides knowledge of advanced issues in financial management. Current issues in financial management are explored. **Prerequisite:** FINC 340

**FINC 445 International Financial Management (3)****Fall:** All Years

Issues involved in the financial management of a multinational firm are considered. This course evaluates the problems a multinational firm faces and how they can be addressed. Topics concerning the functioning of global financial markets, factors that influence exchange rates, and the ways investment decisions are made are explored. **Prerequisite:** FINC 340

**FINC 446 Financial Decision Making (3)****Fall:** Demand **Spring:** Demand

This course moves away from textbooks to learning the skills and issues involved in the financial management of a corporation through academic and professional articles. Several important concepts of financial management are applied to real-life situations through the use of case problems. These cases provide insights into some of the problems a firm faces and how they can be addressed. **Prerequisite:** FINC 441

**FINC 460 Portfolio Analysis and Management (3)****Fall:** Demand **Spring:** Demand

This course involves analysis of techniques used in combining securities into portfolios. Students will examine various classes of securities and investments meeting a proper balance for investor needs.

**Prerequisite:** FINC 360**FINC 461 Fixed Income Security Analysis and Management (3)****Fall:** Demand **Spring:** Demand

Fixed income securities make up the largest single security class. This course involves the study of fixed income securities, their investment characteristics, valuation techniques and portfolio strategies.

**Prerequisite:** FINC 340**FINC 463 Futures and Options (3)****Fall:** Demand **Spring:** Demand

Advanced study of the pricing and use of derivative market instruments, current topics and issues.

**Prerequisite:** FINC 360**FINC 469 Student Internship (2-8)****Fall:** All Years **Spring:** All Years

Students must have Junior standing.

**FINC 495 Special Topics in Finance (3)****Fall:** Demand **Spring:** Demand

Selected topics of contemporary interest will be examined in this course. In the past, topics such as Futures and Options, Fixed Income Securities, and current Issues in Financial Management have been discussed. **Prerequisite:** FINC 340

**FINC 497 Problems in Finance (1-3)****Fall:** All Years **Spring:** All Years

Individual inquiry into an aspect of finance not covered in the regular curriculum.

**First Year Experience****FYE 101 First year Experience (1)****Fall:** All Years

An introduction to the demands and challenges of higher education. The course is designed to strengthen student success in college through personal and academic skills development. The skills include: study skills, notetaking, time management, critical thinking, career/life planning and interpersonal relationships.

**French****FREN 101 [E] Beginning French I (4)****Fall:** All Years

Basic skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes an introduction to French and Francophone culture. Language laboratory required for oral practice. Not applicable toward the major or minor in French.

**FREN 102 [E] Beginning French II (4)****Spring:** All Years

Basic skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes an introduction to French and Francophone culture. Language laboratory required for oral practice. Not applicable toward the major or minor in French.

**Prerequisite:** FREN 101**FREN 190 Topics in French Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in French Language, Literature, and Culture. May be repeated since content may vary.

**FREN 201 [E] Intermediate French I (4)****Fall:** All Years

Further improvement of language skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes authentic French and Francophone cultural readings.

**Prerequisite:** FREN 102**FREN 202 [E] Intermediate French II (4)****Spring:** All Years

Further improvement of language skills in understanding, speaking, reading and writing French with an emphasis on oral proficiency. Includes authentic French and Francophone cultural readings.

**Prerequisite:** FREN 201

**FREN 290 Topics in French Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in French language, literature, and culture. May be repeated since content may vary.

**FREN 297 Independent Study in French: Intermediate Level (1-2)****Fall:** Demand **Spring:** Demand

Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits.

Requires approval by department chair upon presentation of proposal. *Prerequisite:* FREN 201**Geography****GEOG 100 [C] Introduction to Geography (3)****Spring:** All Years

Basic framework for understanding geography through examining various parts of this academic discipline and applied science.

**GEOG 110 [B] Introductory Physical Geography (3)****Fall:** All Years **Spring:** All Years

Basic elements of geography including weather and climate, vegetation, soils and landforms.

**GEOG 111 [F] World Regional Geography (3)****Spring:** All Years

Problems of man's relation to the land and the interrelation of regions.

**GEOG 112 [C] Cultural Geography (3)****Fall:** Demand **Spring:** Demand

Diffusion of innovation, environmental perceptions, and cultural diversity of people in different parts of the world.

**GEOG 220 [C] Economic Geography (3)****Fall:** Demand **Spring:** Demand

The geography of man's economic activities, including agriculture, mining, manufacturing and trade.

*Prerequisite:* GEOG 110**GEOG 225 Conservation (3)****Fall:** All Years

Environmental problems such as food supplies, energy resources, air and water pollution and wildlife habitat.

**GEOG 235 [C] Geography of Minnesota and North Dakota (2)****Fall:** Demand **Spring:** Demand

Survey and analysis of the physical and cultural environments of Minnesota and North Dakota.

**GEOG 241 [B1] Elementary Meteorology (3)****Fall:** Demand **Spring:** Demand

The basic elements of weather: temperature, pressure, condensations and precipitation, air masses and fronts, vorticity and jet streams and storms.

*Prerequisite:* GEOG 110**GEOG 300 Geomorphology (3)****Fall:** Demand **Spring:** DemandRegional survey of landforms of United States, with attention given to classic problems in geomorphic interpretation. *Prerequisite:* GEOG 110**GEOG 310 United States and Canada (3)****Fall:** All Years

Regional survey of United States and Canada with emphasis on regional contrasts and interrelationships.

*Prerequisite:* GEOG 110, GEOG 111**GEOG 485 Earth Science Teaching Methods (1)****Fall:** Demand **Spring:** Demand

Curriculum review, objectives, methods, materials, and evaluation used in the earth science program.

**GEOG 497 Individual Study (1-3)****Fall:** Demand **Spring:** Demand

Individualized work for advanced students involving reading in geography and special writing projects utilizing the geographic approach.

**Geology****GEOL 101 [B1] Earth Science Today (3)****Fall:** All Years

A study of selected subjects in Earth Science. Exact course coverage will vary somewhat, but at least six of the following will be covered; mineral and energy resources, weather, volcanoes and earthquakes, plate tectonics, planetary science, environmental science, evolution and earth history, geomorphology, along with the geologic background necessary to understand these. Particular emphasis is placed on the critical evaluation of evidence, interpretations, and implications for our current scientific understanding, environmental threats to life on our planet, and/or national or political debate.

**GEOL 102 [B] Geology in the National Parks (3)****Spring:** All Years

Study of the processes that have shaped the Earth, including earthquakes, volcanoes, erosion, glaciation, sedimentation, structural deformation; and the geologic history of North America, including mountain building and ocean advances and retreats. Focus on the geological features seen in our National Parks.

**GEOL 115 [B1] Physical Geology (4)****Fall:** All Years

The nature of the earth, its description and the processes that govern its formation and change; including rocks and minerals that make up the earth, their characteristics and how they form; volcanic eruptions; earthquakes; weathering and the transport and deposition of sediment; mineral and energy resources; and the nature of other planets in our solar system. Lab also required.

**GEOL 116 [B1] Historical Geology (2)****Spring:** All Years

Earth history from its beginning to present, including formation of continents, origin and destruction of mountain ranges, advances and retreats of oceans, processes that formed layers of rock and the principles by which they are "read", and what fossils tell about ancient living communities and the environments they lived in. Lab also required.

**GEOL 117 [B1] Water, Land, and People (3)****Fall:** Demand **Spring:** Demand

Focuses on the most recent changes in the earth and the portion of the earth with which people have the most interaction, including water, soil, air, and landforms developed by rivers, wind, and glaciers, with emphasis on how our environment influences and is influenced by human activity. Lab also required.

**GEOL 241 [B1] Elementary Meteorology (3)****Spring:** All Years

The basic elements of weather: temperature, pressure, condensation and precipitation, air masses and fronts, vorticity and jet streams and storms.

**Prerequisite:** GEOG 110**GEOL 260 [B] Planetary Science (3)****Fall:** Demand **Spring:** Demand

A synthesis of current knowledge of the members of the solar system and the origin and evolution of planetary systems. Includes laboratory.

**GEOL 397 Research in Geology (1-3)****Fall:** Demand **Spring:** Demand

Individual research in collaboration with instructor. Product may be a written report, publication, or report at a professional meeting. Project and its format must be accepted by research advisor before registration.

**HLTH 125 First Aid and CPR (2)****Fall:** All Years **Spring:** All Years

The study of emergency medical care. Successful completion leads to American Red cross certification in Basic First Aid and Cardio-Pulmonary Resuscitation (CPR).

**HLTH 190 Topics in Health (1-4)****Fall:** Demand **Spring:** Demand

This is a topics course which may be repeated as course content may vary.

**HLTH 200 Introduction to Health Education and Health Promotion (2)****Fall:** All Years

Explores the foundation and philosophy of health education and health promotion. Other topics include job settings for health educators, professional organizations and licensure, access and retrieval of health information, landmark research and theories of health behavior change. Students will be required to demonstrate effective writing skills.

**HLTH 221 Advanced Athletic Training I: Therapeutic Modalities (3)****Spring:** All Years

This course will investigate tissues repair, physiology of hot and cold treatments, therapeutic modalities, and therapeutic exercise relevant to athletic injury management.

**HLTH 250 Treatment of Sport Injuries (2)****Fall:** Demand **Spring:** Demand

This course is for non-physical education majors who are pursuing a Minnesota coaching license. It deals with basic first aid as well as the prevention and care of common sport injuries.

**HLTH 290 Topics in Health (1-4)****Fall:** Demand **Spring:** Demand

This is a topics course which may be repeated as course content may vary.

**HLTH 301 Health Aspects of Aging (3)****Fall:** Demand **Spring:** Demand

Models and theories of aging; environmental factors that affect physiological changes with age; life-style and aging processes.

**HLTH 305 Introduction to Nutrition (3)****Fall:** All Years **Spring:** All Years

An introductory course in nutrition focusing on improving personal food choices, discriminating between sources of nutritional information, proper diet planning and maintaining healthy weight.

**Health****HLTH 110 Personal Health (3)****Fall:** All Years **Spring:** All Years

An overview of health topics with an emphasis on education for the prevention of life-style related illnesses. Required for teacher certification in Minnesota.

**HLTH 124 First Aid for Elementary Education (1)****Fall:** All Years **Spring:** All Years

The study of basic emergency health procedures necessary for the elementary school teacher. This is a lecture class and does not lead to Red Cross Certification.

**HLTH 311 Health in the Elementary School (3)****Fall:** All Years **Spring:** All Years

Health Education in the Elementary School is a course that emphasizes maintaining and improving personal health and preparation of pre-service teachers to take part in developing healthy behaviors in their pre-primary through 8th grade level students. This course includes methods instruction.

**HLTH 315 Health Agencies and Services (3)****Fall:** All Years

A survey of community health agencies and programs at the national, state and local levels.

**HLTH 321 Advanced Athletic Training II:****Orthopedic Assessment (3)****Fall:** All Years

Study of advanced athletic training techniques (orthopedic assessment; therapeutic modalities, emergency management and rehabilitation principles).

**HLTH 326 Epidemiology (3)****Spring:** All Years

Principles and practices in the cause, prevention and control of disease. Epidemiological terminology, measure of morbidity and mortality, descriptive and analytical epidemiology, screening, infectious disease and occupational epidemiology.

**HLTH 327 Safety Education and Consumer****Protection (3)****Fall:** All Years

Study and evaluation of factors in safety awareness, accident prevention and consumer protection.

**HLTH 330 Disease Prevention (2)****Spring:** All Years

Introduction to common diseases with an emphasis on primary, secondary and tertiary prevention in health education and health promotion.

**HLTH 340 Health Methods and Materials (3)****Fall:** All Years **Spring:** All Years

Teaching methods and strategies are modeled and practiced as they pertain to the ten health content areas. Emphasis is placed on developing lesson plans that incorporate a variety of teaching methods (K-12) with measurable objectives.

**HLTH 390 Topics in Health (1-4)****Fall:** Demand **Spring:** Demand

This is a topics course which may be repeated as course content may vary.

**HLTH 412 Education for Sexuality and HIV/AIDS (3)****Spring:** All Years

Designed for majors/minors that may be involved in teaching or training related to sexuality. Current educational research is applied to preventing sexual health problems in children, adolescents and adults. Emphasis is placed on developing healthy relationships and social skills.

**HLTH 414 Health Services Planning and Evaluation (3)****Fall:** All Years

Provides knowledge about comprehensive health planning, human resource development and management, research operations in health care institutions including research methodology.

**HLTH 415 Design and Evaluation of Community Health Programs (3)****Spring:** All Years

A process approach to organizing, implementing and evaluating community health programs.

**Prerequisite:** HLTH 200, HLTH 326, HLTH 340, ENGL 387

**HLTH 416 Health Services Management (3)****Fall:** All Years

Involves the management theories and practices within healthcare settings, organizational behavior theories, information and materials management systems, including risk management and utilization review.

**HLTH 418 Medical and Health Care Law (3)****Spring:** All Years

Provides an overview of the legal system, including such topics as medical malpractice, abortion and the law, euthanasia, insurance, duty to inform, waiver, labor law and union relations.

**HLTH 419 Financial Management of Health Care Organizations (3)****Spring:** All Years

Provides students with important concepts, issues, tools and vocabulary that managers need when assuming the financial responsibilities of health care organizations; includes total quality management, cost optimization, productivity management, and capitation managed care.

**Prerequisite:** ACCT 230, ACCT 231

**HLTH 465 Comprehensive School Health Programs (3)****Spring:** All Years

A step-by-step approach to developing comprehensive school health programs that include school health instruction, environment, counseling, food service, physical education, school site health promotion and the development of school/community partnerships. Emphasis will be placed on professional development and leadership skills.

**HLTH 469 Internship (2-12)****Fall:** All Years **Spring:** All Years

Designed for Community Health majors. Involvement in field work by placement in health related governmental, volunteer or commercial agencies.

**HLTH 474 Workshop in Health Education (1)****Fall:** Demand **Spring:** Demand

Designed to meet special needs for current and evolving information in specific health areas.

**HLTH 475 Issues and Trends in Health Education (1-3)****Fall:** Demand **Spring:** Demand

Issues or trends of major concern in the discipline of Health/Health Education. The course may be repeated as content varies.

**HLTH 490 Topics in Health (1-4)****Fall:** Demand **Spring:** Demand

This is a topics course which may be repeated as course content may vary.

**HIST 190 Studies in History (2-3)****Fall:** Demand **Spring:** Demand

Selected topics and regions in historical perspective. Designed especially for the liberal arts student, the course may be repeated for credit under a different subtitle as the subject matter changes. Not applicable to History or Social Studies majors.

**HIST 220 [F1] Asian-American Culture (2)****Spring:** All Years

An introduction to the major aspects of Asian-American culture, including geography, history, economics, family, community, psychology and literature, with emphasis on the Asian-American experience in social adjustment.

**HIST 241 History of Social Welfare (3)****Fall:** All Years **Spring:** Odd Years

Examines the history of public and private responses to poverty and need in America; offers insights into the lives of both providers and recipients of welfare services in American history.

**HIST 280 Introduction to Public History (2)****Fall:** Demand **Spring:** Demand

This course exposes students to a variety of historical pursuits outside of academia. Students learn new skills through participation in a group project and become acquainted with career options in history.

**HIST 301 [F] East Asian History I (3)****Fall:** Even Years

Traditional China, Japan, and Korea from the Neolithic cultures to mid-19th century.

**HIST 302 [F] East Asian History II (3)****Spring:** Odd Years

East Asia since 1830: Western intrusion, reform, revolution and contemporary issues.

**HIST 303 [F] History of Africa I (3)****Fall:** Even Years

African civilization up to 1800.

**HIST 304 [F] History of Africa II (3)****Spring:** Odd Years

Africa in the 19th and 20th centuries.

**HIST 305 Modern Middle East (3)****Fall:** Demand **Spring:** Demand

The Middle East since 1914. European imperialism and the background to the Arab-Israel struggle, Nationalism, revolution, Islamic resurgence and contemporary problems.

**HIST 307 Topics in Asian History (3)****Fall:** Demand **Spring:** Demand

Selected topics in Asian history.

**HIST 308 Topics in African History (3)****Fall:** Demand **Spring:** Demand

Selected topics in African History.

**History****HIST 101 [C] Western Civilization I (4)****Fall:** All Years

Ancient and medieval periods to the Enlightenment. Human beginnings, the ancient civilizations of the Mediterranean, Medieval Europe and the transformations of the Renaissance and the Reformation and the rise of the modern nation state to 1700.

**HIST 102 [C] Western Civilization II (4)****Spring:** All Years

From 1700 to the present, the Enlightenment and the Age of the Democratic Revolution, the rise of modern industrialism, liberalism, nationalism, the new Imperialism and 20th century problems into the atomic and post-Cold War eras.

**HIST 104 [F] World History I (4)****Fall:** All Years

World Civilizations from the ancient through classical periods and up to 1500.

**HIST 105 [F] World History II (4)****Spring:** All Years

The World since 1500; the development of European global hegemony; the post-European world.

**HIST 121 [C] History of the United States to 1877 (4)****Fall:** All Years

The colonial beginnings to the end of Reconstruction; the founding of the American society and growth of the new nation through the aftermath of the Civil War.

**HIST 122 [C] History of the United States Since 1877 (4)****Spring:** All Years

The Gilded Age and 20th century; the development of modern industrial America to world power status.

**HIST 309 Topics in Latin American History (2-3)**

**Fall:** Demand **Spring:** Demand  
Selected topics in Latin American history.

**HIST 310 Topics in European History (2-3)**

**Fall:** Demand **Spring:** Demand  
Selected topics in European history.

**HIST 311 Topics in North American History (2-3)**

**Fall:** Demand **Spring:** Demand  
Selected topics in North American history.

**HIST 315 Minnesota and the Upper Midwest (2)**

**Fall:** Demand **Spring:** Demand

**HIST 318 Modern Germany (4)**

**Fall:** Demand **Spring:** Demand  
German state from the Napoleonic Era to the present.

**HIST 321 [C] History of England I (3)**

**Fall:** Odd Years  
Earliest beginnings through the demise of the Stuarts. Emphasis on Medieval life and politics, the Reformation and the Revolution of the Seventeenth Century.

**HIST 322 [C] History of England II (3)**

**Spring:** Even Years  
From the Hanoverians to the present. Emphasis on Industrialization, Imperial expansion and the decline of England in the Twentieth Century.

**HIST 325 Modern France (4)**

**Fall:** Demand **Spring:** Demand  
A survey of the history of modern France emphasizing the role of the Revolution in shaping the social, political and cultural developments of the 19th and 20th centuries.

**HIST 330 [C] World War Two, 1939-1945 (3)**

**Fall:** Demand **Spring:** Demand  
A study of the political, economic, and social causes of the war, together with analyses of the major military and naval battles and the effects of the war. Can be applied to History and Social Studies majors, but does not fulfill area requirements for courses in North American, European, or Asian history.

**HIST 331 Russian History I (4)**

**Fall:** Even Years  
The Eastern Slavs from their earliest unification in Kievan Russia through the Rise of Muscovite state and the Russian empire to the 1850's. Surveys political, economic, social, and cultural development. Satisfies the European area in the History and Social Studies majors.

**HIST 332 Russian History II (4)**

**Spring:** Odd Years  
The multi-national Russian Empire from the 1850s through the Soviet period to the present. Surveys political, economic, social, and cultural development. Satisfies the European area in the History and Social Studies majors.

**HIST 333 [F] History of Latin America I (3)**

**Fall:** Odd Years  
Iberian heritage, pre-Columbian Indian cultures, the era of conquest, the colonial period and Wars of Independence.

**HIST 334 [F] History of Latin America II (4)**

**Spring:** Even Years  
Major trends in Latin America in the 19th and 20th centuries.

**HIST 335 History of the Aztecs and the Incas (3)**

**Spring:** Odd Years  
A survey of the development of two pre-Columbian civilizations with emphasis on their methods of organization and imperial expansion.

**HIST 336 History of Mexico (3)**

**Fall:** Demand **Spring:** Demand  
An examination of the major themes in the development of the Mexican nation with the emphasis on the period since independence.

**HIST 346 Modern China (3)**

**Fall:** Odd Years  
China from the late Qing period to the present with emphasis on the revolutionary movement and attempts at modernization.

**HIST 347 Modern Japan (3)**

**Spring:** Even Years  
Japan from the Tokugawa period to the present. Focuses on the course of modern transformation: seclusion, industrialization, militarism, reform and reemergence as an economic superpower.

**HIST 350 Women in European History (4)**

**Fall:** Odd Years  
The historical experience of European women as a force in politics, in economic and familial roles, in organized religion and in cultural life, and with special emphasis on the "woman question".

**HIST 352 World War I (3)**

**Fall:** Demand **Spring:** Demand  
The background, characteristics and results of war. In addition to the military dimension, attention will be given to political, social and cultural aspects of the period. Satisfies the European area in the History and Social Studies majors.

**HIST 357 United States Foreign Relations (4)**

**Fall:** Demand **Spring:** Demand  
A review of the political, economic, and military forces which shaped America's diplomatic events with Europe, Asia and Latin America from the 1870's.

**HIST 360 American Revolutionary Era (3)**

**Fall:** Demand **Spring:** Demand  
A survey of rising British colonial protest after 1763, the subsequent war for American independence, and the ultimate establishment of the U.S. constitutional system by 1789.

**HIST 361 Civil War and Reconstruction (3)****Fall:** Demand **Spring:** Demand

A survey of Civil War and Reconstruction periods in American history examining the causes and consequences in social, political, military and constitutional areas.

**HIST 363 The United States in Vietnam, 1945-1975 (3)****Fall:** Demand **Spring:** Demand

A survey of the causes, conduct, and consequences of America's longest war. The political, military, and social aspects of United States involvement with Vietnam will be studied. Satisfies the North American area in the History and Social Studies majors.

**HIST 366 Constitutional History of the United States I (3)****Fall:** Even Years

The origins and development of the American Constitution from Colonial times to the beginning of the industrial age.

**HIST 367 Constitutional History of the United States II (3)****Spring:** Odd Years

The American constitutional system in its historic setting from early industrial times to the present.

**HIST 368 American Life and Thought (4)****Fall:** Odd Years

Topical approach to social changes that have affected the life-styles, values, and ways of thinking of diverse groups in American history.

**HIST 375 Women in United States History (3)****Fall:** Even Years

Women's experiences in the family, work, religion, reform, and the women's rights and feminist movements; seeks to understand women's issues in historical perspective.

**HIST 377 [F1] African-Americans in U.S. History (3)****Spring:** Odd Years

The historical experience of African Americans from slavery to the present; how American society has oppressed African Americans and how they have struggled against that oppression, with particular emphasis on organized resistance in the era of the Civil Rights movement.

**HIST 378 Asian-American History (3)****Fall:** Demand **Spring:** Demand

The historical experience of Asian Americans from mid-nineteenth century to the present. Concentrates on the Asian exclusion, Japanese internment, new immigrants and problems of social adjustment.

**HIST 381 History of Canada (4)****Fall:** Demand **Spring:** Demand

Survey of Canadian history from the explorations to the present. Emphasis on the Post-Confederation period and focused on the evolution of Canada as a bilingual/bicultural nation.

**HIST 401 Senior Seminar (3-4)****Fall:** All Years **Spring:** All Years

Problems in history for advanced students.

**HIST 440 Secondary Social Studies Instruction (3)****Fall:** All Years

Concentrates on the designing of instructional units for middle school and high school social studies' classrooms. A variety of instructional resources, teaching methodologies, and assessment techniques will be explored.

**HIST 469 Internship (4-12)****Fall:** Demand **Spring:** Demand

History majors gain on-the-job experience in a supervised situation with cooperating private or public agencies.

**HIST 497 Individual Study (1-3)****Fall:** Demand **Spring:** Demand

Directed readings and discussion on particular topics agreed upon by instructor and student.

**Honors****HON 200 Honors Colloquium (4)****Fall:** All Years

The Honors Colloquium will constitute a 4-credit course required of all Honors students upon admission to the Honors Program.. Colloquia will emphasize small group discussions of significant issues and/or readings. Meetings will encourage informal exchange of ideas and viewpoints between instructors and students. Reading materials will be chosen at the discretion of the instructors. Brief papers will be required.

**HON 300 [C] American Society (4)****Fall:** Demand **Spring:** Demand

Examines some of the major political, economic, and cultural developments in American life during roughly the past century. Possible topics include concentration of political and economic power, bureaucratization and its effects, revolutions in class structures, race and ethnicity in politics, and the consequences of the decline of American empire. *Prerequisite:* HON 200

**HON 301 [D1] Masterpieces of Literature (4)****Fall:** Demand **Spring:** Demand

Consists of careful reading of selected masterpieces of world literature combined with intense discussion and exchange of ideas. Possible works to be covered include selections from Homer, Dante, Shakespeare, Dostoevski, Yeats, Camus and others.

**Prerequisite:** HON 200**HON 303 [B] Nature of Physical Reality (3)****Fall:** Demand **Spring:** Demand

A study and comparison of models of physical reality constructed by two major figures of the 20th century physics, Albert Einstein and Niels Bohr.

**HON 305 [D] Good and Evil in Literature (4)****Fall:** Demand **Spring:** Demand

A study and comparison model of literary treatments of good and evil. Consists of a careful reading of selected works from fiction, poetry and drama with a vigorous discussion of how good and evil are presented and a lively exchange of ideas. Possible works may include such titles as: Heart of Darkness, Faust, Scarlet Letter, "St. Julian the Hospitaller," and various selections from Blake, Dickinson, and Milton.

**HON 306 [C] Human Nature in the Western Tradition (3)****Fall:** Demand **Spring:** Demand

An examination of current psychological theories regarding human nature and potential, and the evolution of those theories within Western philosophy and literature.

**HON 307 [D1] Transformation of the Roman World: 31 B.C. to A.D. 312 (4)****Spring:** Odd Years

An introduction to the Roman Empire, both its Eastern and Western components, as the setting in which Christianity appeared. The introduction of art, archeology, and literature as the primary sources for interpreting the growth of the Christian religion in the first three hundred years of the common era.

**Prerequisite:** HON 200**Humanities****HUM 132 [F] Introduction to Chinese Culture (3)****Fall:** All Years **Spring:** All Years

An introduction to the major aspects of Chinese culture from ancient times to the present. Topics include language, folklore, festivals, philosophy, religion, family, education, literature and daily life. Lecture, discussion, readings, and films in English. Applicable towards East Asian Studies minor.

**HUM 142 [F] Introduction to Japanese Culture (3)****Fall:** Demand **Spring:** Demand

An introduction to the major aspects of Japanese culture. Topics include arts, education, family, geography, history, language, literature, philosophy, religion and daily life. Focuses on the distinctive characteristics of Japanese culture in comparison with the Western culture. Lectures, films and discussions in English.

**HUM 201 [D1] Humanities Through the Arts (3)****Fall:** Demand **Spring:** Demand

An introductory, chronological examination of the arts, focusing on representative works of the Western tradition with reference to historical, literary, and other cultural developments, as well as non-Western parallels.

**HUM 211 [D1] Perspective on Society (3)****Fall:** All Years **Spring:** Demand

Explores visions of society (e.g. Confucius, Plato) or intercultural encounters between societies (e.g. Age of Exploration). May include works of history, literature, and political theory.

**HUM 212 [D] Perspectives on Ultimate Reality (3)****Fall:** Odd Years **Spring:** Even Years

Explores images of the divine in both Western and non-Western traditions. Includes shamanic experiences, Old Testament and gnostic texts, poetry from the Sufi, Hindu and Western traditions, and modern short stories.

**HUM 213 [D] Perspectives on the Self (3)****Spring:** Odd Years

Explores a) initiation as a way of knowing or b) the individual in the grip of history, from traditional to modern industrial societies. May include readings in ethnography, depth psychology, and works of literature.

**HUM 214 [D1] Classical and Medieval Worlds (4)****Fall:** All Years **Spring:** All Years

A chronological approach to the basic ideas and art-forms of Western civilization, chiefly following the tradition from Homeric Greece through Virgil to Dante and medieval romances.

**HUM 215 [D1] Renaissance Through the Modern World (4)****Fall:** All Years **Spring:** All Years

A "cultural history" of the West, presented chronologically from the 1400s, examining the principal contributions of influential figures in literature, political theory, the arts, etc., with pertinent reference to non-Western achievements.

**HUM 217 [F] Latin American Humanities (3)****Fall:** Demand **Spring:** Demand

An introduction to the culture of Latin America through works selected for the insights they provide into the social and historical reality of the area as well as for their artistic merit.



**HUM 218 [F1] American Indian Belief Systems (3)****Fall:** All Years **Spring:** Demand

American Indian Belief Systems focuses on common thematic elements found throughout diverse North American Indian communities. It introduces the students to the sacred ways of the Indians through oral tradition, songs, prayers, interviews, speeches and contemporary literature. There will be a critical examination of the relationships between world view, spiritualism, technologies and the human and non-human communities.

**HUM 219 [D1] Scandinavian Humanities (3)****Fall:** Demand **Spring:** Demand

An introduction to Nordic social and cultural life as seen in the arts and ideas of the Scandinavian societies and culture.

**HUM 220 [F] Introduction to East-West Humanities (3)****Fall:** Demand **Spring:** Demand

To examine literature and the arts from a comparative perspective: parallels, contrasts, and intercultural influences focussing on China, Japan, and the West.

**HUM 227 [D1] Russian Humanities (3)****Fall:** Demand **Spring:** Demand

An introduction to the culture of Russia through works selected for the insights they provide into the social and historical reality of the Soviet Union as well as for their artistic merit with concentration in the society of the last decades before the Revolution.

**HUM 237 [D1] Canadian Humanities (3)****Fall:** Demand **Spring:** Demand

An introduction to Canadian social and cultural life through works selected for the insights they provide into the distinctively Canadian features of North American experience as well as for their artistic merit.

**HUM 304 [D] European Humanities (1-12)****Spring:** All Years

A study tour focusing on Western European humanities. Led by an MSU faculty member, the tour includes instruction by British faculty in Oxford, England, as well as a tour of important European cultural centers.

**HUM 312 [D1] Women and the Humanities (3)****Fall:** Demand **Spring:** Demand

An examination of painting, sculpture, novels, songs and instrumental music by women, as well as creative work from the traditional world of women.

**HUM 314 [D1] Advanced Classical and Medieval Humanities (3)****Fall:** Demand **Spring:** Demand

Major ideas, themes, figures, and achievements of the classical and medieval periods examined through literature and the arts. **Prerequisite:** HUM 214 OR ENGL 234

**HUM 315 [D1] Advanced Renaissance Enlightenment Humanities (3)****Fall:** Demand **Spring:** Demand

The creative endeavors and expansionistic undertakings of Europeans will be examined within this socio-historical time-frame in an interdisciplinary way juxtaposing ideas, themes, figures and achievements through literature and the arts. **Prerequisite:** HUM 215

**HUM 316 [D1] Advanced Romantic/Modernist/Contemporary Humanities (3)****Fall:** Demand **Spring:** Demand

Major ideas, themes, figures and achievements examined through literature and the arts. Socio-historical context emphasized. **Prerequisite:** HUM 215

**HUM 333 [D1] Love in the West (3)****Fall:** Odd Years **Spring:** Demand

Examines love in the West, following Plato's Eros through his metamorphoses in medieval courtly and mystical love and later variants in the Metaphysical, Romantic and modern poetic traditions. About one-third of the course will be devoted to lyric poetry.

**Prerequisite:** ENGL 234 OR HUM 214**HUM 390 Topics in Humanities (3)****Fall:** Demand **Spring:** Demand

Topics appropriate to upper-division students, developed around the interests of students and instructors.

**HUM 395 Topics in Women's Studies (3)****Fall:** Demand **Spring:** Demand

May be repeated for credit as topics vary.

**HUM 397 Independent Study (1-3)****Fall:** Demand **Spring:** Demand

May be repeated twice to a maximum of 8 credits.

**HUM 410 Directed Readings in Women's Studies (1-3)****Fall:** Demand **Spring:** Demand

Projects designed by students and instructor.

## Japanese

**JAPN 101 [E] Beginning Japanese I (4)****Fall:** All Years

Introduction to Japanese language and culture. Emphasis placed on the spoken language and reading the Japanese alphabet.

**JAPN 102 [E] Beginning Japanese II (4)****Spring:** All Years

Introduction to Japanese language and culture. Emphasis placed on the spoken language and reading the Japanese alphabet. **Prerequisite:** JAPN 101

**JAPN 142 [F] Introduction to Japanese Culture (3)****Fall:** All Years **Spring:** All Years

An introduction to the major aspects of Japanese culture. Topics include arts, education, family, geography, history, language, literature, philosophy, religion and daily life. Focuses on the distinctive characteristics of Japanese culture in comparison with the Western culture. Lectures, films and discussions in English.

**JAPN 190 Topics in Japanese Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Japanese language, literature, and culture. May be repeated since content may vary.

**JAPN 201 [E] Intermediate Japanese I (4)****Fall:** All Years

Development of reading and writing skills. An increase in oral proficiency is expected. In principle, instruction is done in Japanese. English readings and video programs are used for the enrichment of cultural understanding.

**Prerequisite:** JAPN 102**JAPN 202 [E] Intermediate Japanese II (4)****Spring:** All Years

Continuation of JAPN 201 **Prerequisite:** JAPN 201

**JAPN 290 Topics in Japanese Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Japanese language, literature, and culture. May be repeated since content may vary.

**JAPN 297 Independent Study in Japanese: Intermediate Level (1-2)****Fall:** Demand **Spring:** Demand

Selected project agreed upon by student and instructor. May be repeated for a total of 4 credits. Approval by department chair upon presentation of proposal.

**Prerequisite:** JAPN 201**JAPN 301 Advanced Japanese Grammar (4)****Fall:** All Years

Intensive study and practice of Japanese grammar, vocabulary, and writing. **Prerequisite:** JAPN 202

**JAPN 302 Japanese Conversation and Composition (4)****Spring:** All Years

Intensive practice in conversation, composition and stylistics for the development of both oral and written proficiency. Includes extensive reading of graded and culturally authentic materials. **Prerequisite:** JAPN 301

**JAPN 390 Topics in Japanese Language, Literature and Culture (1-4)****Fall:** Odd Years **Spring:** Odd Years

Topics in Japanese language, literature, and culture. May be repeated since content may vary.

**Prerequisite:** JAPN 202**JAPN 397 Independent Study in Japanese: Advanced Level (1-2)****Fall:** Odd Years **Spring:** Odd Years

A selected project as agreed upon by student and instructor. May be repeated for a total of four credits. Requires approval by department chair.

**Prerequisite:** JAPN 202**Languages****LANG 289 Continuing Studies Topics (1-3)****Fall:** Demand **Spring:** Demand**LANG 440 Methods and Materials in Teaching Foreign Languages (4)****Fall:** All Years

Theory and practice of teaching foreign languages. Examination of current and historical trends, methods and techniques. Microteaching, materials, preparation and evaluation. Must have a passing score on PPST.

**LANG 469 Foreign Language Internship (2-12)****Fall:** Demand **Spring:** Demand

Elective field experience in applied foreign language under agency and departmental supervision.

Opportunity to practice and integrate classroom knowledge of the four language skills. Planning must be done at least one semester prior to the internship.

**Latin****LAT 101 [E] Beginning Latin I (4)****Fall:** All Years

Latin grammar and syntax, with readings adapted from original texts and with some practice in elementary Latin composition.

**LAT 102 [E] Beginning Latin II (4)****Spring:** All Years

Latin grammar and syntax, with readings adapted from original texts and with some practice in elementary Latin compositions. **Prerequisite:** LAT 101

**LAT 201 Intermediate Latin I (4)****Fall:** Demand

Intensive review of Latin grammar and syntax; representative readings in the literature of the late Republic and the Empire, especially in those authors whose work exemplifies the characteristic forms and usage of the classical period: Cicero, Caesar, Virgil, Horace, Livy, and Ovid; occasional exercises in composition; some collateral reading in English on various aspects of Roman civilization.

**Prerequisite:** LAT 101, LAT 102

**LAT 202 Intermediate Latin II (4)****Spring:** Demand

Intensive review of Latin grammar and syntax; representative readings in the literature of the late Republic and the Empire, especially in those authors whose work exemplifies the characteristic forms and usage of the classical period: Cicero, Caesar, Virgil, Horace, Livy, and Ovid; occasional exercises in composition; some collateral reading in English on various aspects of Roman civilization.

**Prerequisite:** LAT 101, LAT 102, LAT 201**Liberal Studies****LBST 201A [D1] Beautiful and Good (3)****Fall:** Demand **Spring:** Demand

During the quarter, students will study and contrast major ideas about the relationship between beauty and goodness in Western thought and selected, diverse cultures. Major artistic, literary and intellectual contributions relevant to the theme will be explored. Contact instructors to learn more about the class focus. Students should enroll in LBST 201A and LBST 201B in the same semester.

**LBST 201B [F] Beautiful and Good (3)****Fall:** Demand **Spring:** Demand

During the quarter, students will study and contrast major ideas about the relationship between beauty and goodness in Western thought and selected, diverse cultures. Major artistic, literary and intellectual contributions relevant to the theme will be explored. Contact instructors to learn more about the class focus. Students should enroll in LBST 201A and LBST 202B in the same semester.

**LBST 202A [F1] Civilizations and Migrations (3)****Fall:** Demand **Spring:** Demand

Students should enroll in both sections, one of which takes a global focus, while the other takes a domestic focus. The globally focused section aims to describe a means of understanding diversity abroad. Principal themes include migration as it relates to cultural diversity, political and economic development and human rights. Students will study the major theories of migration, its economic impact, the behavioral characteristics of immigrants, issues of illegal migration and cultural implications. The second section of the course intends to develop historical knowledge and perspective on major migrations to and from the United States. The course intends to develop enhanced multidisciplinary/interdisciplinary views of the interactions/dynamics of "the new immigrants" and others in the highly mobile, and increasingly heterogeneous, U.S. society. Contact the instructors to learn more about the course.

**LBST 202B [F] Civilizations and Migrations (3)****Fall:** Demand **Spring:** Demand

Students should enroll in both sections, one of which takes a global focus, while the other takes a domestic focus. The globally focused section aims to describe a means of understanding diversity abroad. Principal themes include migration as it relates to cultural diversity, political and economic development and human rights. Students will study the major theories of migration, its economic impact, the behavioral characteristics of immigrants, issues of illegal migration and cultural implications. The second section of the course intends to develop historical knowledge and perspective on major migrations to and from the United States. The course intends to develop enhanced multidisciplinary/interdisciplinary views of the interactions/dynamics of "the new immigrants" and others in the highly mobile, and increasingly heterogeneous, U.S. society. Contact the instructors to learn more about the course.

**Management****MGMT 315 Government and Business (3)****Spring:** Odd YearsSame as ECON 315. **Prerequisite:** ECON 204**MGMT 360 Principles of Management (3)****Fall:** All Years **Spring:** All Years

Analyzes functions of management and the forces that shape and define the manager's role. Students must have Junior standing.

**MGMT 370 Management Information Systems (3)****Fall:** All Years **Spring:** All Years

Study of design and use of information systems and communication processes, including recording, transmitting, and revising information as an aid in managerial decision making. **Prerequisite:** MGMT 360, CSIS 103

**MGMT 380 Operations Management (3)****Fall:** All Years **Spring:** All Years

Description and analysis of the operations function in an organization. **Prerequisite:** MGMT 360

**MGMT 405 Small Business Management (3)****Fall:** All Years **Spring:** All Years

Analysis of problems confronting the manager of small retail, wholesale, and manufacturing enterprises. Students must have Junior standing.

**MGMT 406 Small Business Management****Consulting (1-2)****Fall:** All Years **Spring:** All Years

Practicum in providing management assistance to small businesses. May be retaken for a total of 3 credits. Students must have Senior standing.

**MGMT 415 Industrial Organization and Public Policy (3)**

**Spring:** Even years  
Same as ECON 415.

**MGMT 416 Labor Economics (3)**

**Fall:** All Years  
Same as ECON 416. *Prerequisite:* ECON 204

**MGMT 420 Organizational Theory (3)**

**Fall:** All Years **Spring:** All Years  
Behavioral science theory applied to an understanding of the design, structure, performance and environment of business organizations. *Prerequisite:* MGMT 360, PSY 120 OR SOC 205

**MGMT 421 Decision Analysis (3)**

**Spring:** All Years  
Structuring and analyzing of decisions under conditions of risk and uncertainty. *Prerequisite:* MGMT 360

**MGMT 424 Management Science (3)**

**Fall:** All Years **Spring:** All Years  
A study of linear programming, transportation and assignment models, network models and waiting lines as they relate to business decisions. Other models may be covered as time permits. *Prerequisite:* MGMT 360

**MGMT 430 Managerial Economics (3)**

**Fall:** Demand **Spring:** Demand  
Same as ECON 430. *Prerequisite:* ECON 204, MGMT 360

**MGMT 440 Personnel Management (3)**

**Fall:** All Years  
Management of people at work with emphasis on recruiting, selecting, training, and evaluating personnel. *Prerequisite:* MGMT 360, PSY 120, OR SOC 205

**MGMT 441 Labor Relations (3)**

**Fall:** Demand **Spring:** Demand  
Historical, legal and managerial aspects of the labor relations function in both private and public sector organizations. Topics include union organization drives, collective bargaining, impasse resolution procedures, contract administration and employee relations policy development. *Prerequisite:* MGMT 440

**MGMT 451 Organizational Behavior (3)**

**Fall:** All Years **Spring:** All Years  
Studies the interaction of individuals and groups in business organizations. The course focuses on providing insights into individual, group, and organizational processes. *Prerequisite:* MGMT 360, PSY 120 OR SOC 205

**MGMT 458 International Management (3)**

**Fall:** All Years **Spring:** All Years  
An examination of organizational management in the international environment which will focus on private and public management in the exchange of goods and services in cross cultural contexts. *Prerequisite:* MGMT 360

**MGMT 469 Student Internship (2-8)**

**Fall:** All Years **Spring:** All Years  
Students must have Junior standing.

**MGMT 495 Special Topics in Management (3)**

**Fall:** Demand **Spring:** Demand  
Selected management topics of contemporary interest. May be repeated with different topics. *Prerequisite:* MGMT 360

**MGMT 497 Problems in Management (1-3)**

**Fall:** All Years **Spring:** All Years  
Individual inquiry into an aspect of Business Administration not covered in the regular curriculum.

## Marketing

**MKTG 310 Principles of Marketing (3)**

**Fall:** All Years **Spring:** All Years  
Principles of planning the product, price, promotion, and distribution strategies for an organization within a competitive global environment to satisfy the needs of customers. Students must have Junior standing. *Prerequisite:* ECON 202

**MKTG 311 Marketing Management (3)**

**Fall:** All Years **Spring:** All Years  
An examination of practical marketing problems with a focus on analysis, planning, implementation, and control of worldwide marketing programs for the purpose of achieving an organization's objectives. *Prerequisite:* MKTG 310

**MKTG 315 Industrial Marketing (3)**

**Spring:** All Years  
Applications of the marketing mix to meet the needs of manufacturers, wholesalers, retailers, institutions and governmental agencies. *Prerequisite:* MKTG 310

**MKTG 330 Personal Selling (3)**

**Spring:** All Years  
A practical course in professional selling that explores the role of personal selling in the marketing mix and the development of effective techniques for the modern sales executive. *Prerequisite:* MKTG 310

**MKTG 335 Retail Management (3)**

**Fall:** All Years  
An analysis of the activities involved in selling goods and services to the final consumer with an emphasis on retail institutions. *Prerequisite:* MKTG 310

**MKTG 406 Small Business Management Consulting (1-2)**

**Fall:** All Years **Spring:** All Years  
Practicum in providing marketing assistance to small businesses. May be retaken for a total of 3 credits. Students must have Senior standing.

**MKTG 419 Distribution Management (3)****Spring:** All Years

Examines the distribution processes with emphasis on managing both marketing channel relationships and logistical movement and storage activities.

**Prerequisite:** MKTG 310, MGMT 380**MKTG 421 Consumer Behavior (3)****Fall:** All Years **Spring:** All Years

Examination of the psychological and sociological dimensions and determinants of consumer behavior, with the objective of understanding the buying behavior of an organization's customers.

**Prerequisite:** MKTG 310, PSY 120 OR SOC 205**MKTG 422 Marketing Research (3)****Fall:** All Years **Spring:** All Years

Methods of obtaining and analyzing internal and external marketing information with an emphasis on survey design and data interpretation.

**Prerequisite:** MKTG 310**MKTG 423 Marketing Communications (3)****Spring:** All YearsA survey of the elements of promotion — advertising, public relations, sales promotion, and personal selling — with a strong emphasis on the strategic integration of these methods to achieve synergy in their application in the marketplace. **Prerequisite:** MKTG 310**MKTG 441 Business and Society (3)****Spring:** All Years

Social responsibility and business ethics are examined in the context of operating within the American and international societal, political and economic systems.

**Prerequisite:** MKTG 310**MKTG 442 Marketing Seminar (3)****Fall:** Demand **Spring:** DemandSelected marketing topics of contemporary interest. Recent topics include new product introduction, non-profit marketing, direct marketing, and cultural environment of international markets. May be repeated with different topics. **Prerequisite:** MKTG 310**MKTG 444 International Marketing (3)****Fall:** All Years **Spring:** All YearsComprehensive study of the cultural, political, and economic factors affecting international marketing strategies. **Prerequisite:** MKTG 310**MKTG 469 Student Internship (2-8)****Fall:** All Years **Spring:** All Years

Students must have Junior standing.

**MKTG 497 Problems in Marketing (1-3)****Fall:** All Years **Spring:** All Years

Individual inquiry into theoretical or applied aspects of marketing not covered in regular curriculum.

**Mass Communications****MC 100 Introduction to Mass Communications (3)****Fall:** All Years **Spring:** All Years

The study of the power and importance of mass media in national and international affairs with emphasis on the nature and functions of newspapers, television, radio, internet, advertising and public relations.

**MC 200 Visual Communications (2)****Fall:** Demand **Spring:** Demand

A survey of the visual components that make up mass communications, including structural elements, psychological implications and effects, and general visual literacy.

**MC 210 Media Writing (3)****Fall:** All Years **Spring:** All Years

Media Writing is designed to achieve the following outcomes: proficiency in the use of the parts of speech; proficiency in the use of Associated Press style relative to capitalization, abbreviations, use of numerals and punctuation; and proficiency in the composition of media messages designed for print and broadcast journalism, public relations and advertising.

**MC 212 University Newspaper Publication (1)****Fall:** All Years **Spring:** All Years

Practicum for students working on the MSU Advocate staff. Repeatable to 4 credits.

**MC 220 Desktop Publishing (3)****Fall:** All Years **Spring:** All Years

Students will acquire knowledge of the fundamental principles of layout and typography for print, online, and multimedia publications. Proficiency will be gained in computer applications for scanning and page layout (PageMaker, Photoshop, Illustrator, Acrobat, Powerpoint, and Simple Text).

**MC 230 Photography (3)****Fall:** All Years **Spring:** All Years

This class is designed to achieve the following outcomes: an ability to develop black and white negatives, make enlargements and drymount the finished products. The student will also experience an introduction to the compositional and conceptual aspects of the medium and an exploration of sequencing photographs. Cameras can be rented from the department.

**MC 257 Advanced Desktop Publishing (3)****Fall:** All Years **Spring:** All Years

This course will build on the student's basic knowledge of desktop publishing, along with the applications of various software and hardware used in the preparation of material for a visual presentation. Photographic and presentation programs using the Macintosh and PC platforms are included.

**MC 272 Television Production (3)****Fall:** All Years **Spring:** All Years

Theory of and practical experience with television equipment in studio and remote productions.

**MC 290 Special Topics (1-3)****Fall:** Demand **Spring:** Demand

Study of a particular mass communications topic: exploration of emerging issues, methodologies, and new technologies related to the study or application of mass communications theory not addressed in other courses. May be repeated up to 3 credits.

**MC 300 International Communications (3)****Fall:** Demand **Spring:** All Years

This course is designed to achieve the following outcomes: students will acquire a geographical knowledge of countries (including basic demographic and media data) and world regions; gain experience in intercultural cyberspace correspondence; acquire knowledge of a non-Western country gained from non-U.S. online and off-line publications; develop an ability to gather information from diverse sources, to analyze the findings critically and rationally using problem-solving skills, and to communicate effectively through clear writing; and gain an understanding of the ongoing Third Communication Revolution. Students will also acquire a knowledge of the major controversies related to international communication.

**MC 301 Online Advertising, News, and PR (3)****Fall:** Demand **Spring:** Demand

Theory and practice in organizing and disseminating advertising, news, and public relations on the World Wide Web.

**MC 302 History of Mass Communications (3)****Fall:** All Years **Spring:** Demand

Students will acquire knowledge of the history of journalism, broadcasting, advertising, and public relations in the United States from the American Revolution to the present.

**MC 303 Advertising Principles (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: acquire an understanding of advertising theories and principles; develop an understanding of how advertising is used, why it is used, and how it impacts the American society and economy; and acquire an understanding of the advertising industry that includes the function and operation of an advertising agency and the components of an integrated advertising campaign.

**MC 304 Public Relations Principles (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: acquire an understanding of the principles, theories and practices of public relations; and develop an understanding of the four-step-PR-process, and how business, government and not-for-profit organizations use it to alter, adapt to, or maintain their environments to achieve organizational goals.

**MC 306 Advertising Copywriting (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: an ability to analyze consumers; proficiency in the design and construction of advertising messages targeting specific consumers; proficiency in adapting the message copy to fit the mediums used to transmit the message; and proficiency in the public presentation of advertising copy. **Prerequisite:** MC 210, MC 303

**MC 307 Public Relations Processes (3)****Fall:** All Years **Spring:** All Years

This course is designed to achieve the following learning outcomes: an ability to analyze a public relations situation; proficiency in the design and construction of public relations messages targeting specific publics; proficiency in adapting the message copy to fit the mediums used to transmit the message; proficiency in the design and execution of a public relations special event; and proficiency in the public sharing of public relations materials. **Prerequisite:** MC 210, MC304

**MC 308 Broadcast Journalism (3)****Fall:** All Years **Spring:** All Years

The study of radio and television news. Students will learn a specific style for writing broadcast news stories from notes, satellite feeds, news releases and the Associated Press. Students will write and re-write stories for both radio and television and learn the basics of videotape editing for television news stories.

**Prerequisite:** MC 210**MC 309 Reporting (3)****Fall:** All Years **Spring:** All Years

Reporting is designed to achieve the following outcomes: proficiency in writing both hard news and soft news; gain experience in integrating writing, editing and design through teamwork; develop competence in using Associated Press style, grammar and syntax, as well as online and off-line research sources; acquire skills in interviewing, and an understanding of the contemporary theory and practice of journalism. **Prerequisite:** MC 210

**MC 310 Copy Editing (3)****Fall:** All Years **Spring:** All Years

Copy editing is designed to achieve the following outcomes: competence in using Associated Press style, grammar, and syntax; develop skills in headline writing, outline writing, photo and graphic editing, page layout and design; gain experience in producing a newsletter through the integration of writing, editing, and design; acquire knowledge of current affairs; and develop an understanding of the contemporary theory and practice of copy editing. **Prerequisite:** MC 210, MC 306 OR MC 307 OR MC 309

**MC 320 Layout and Typography (3)****Fall:** All Years **Spring:** All Years

Students will acquire knowledge of advanced principles of layout and typography for print and online publications. Proficiency will be gained in computer applications for layout (QuarkXpress), illustration (Illustrator), photography (Photoshop), presentations (PowerPoint) and web publication (SimpleText).

**MC 328 Media and Politics (3)****Fall:** Demand **Spring:** Demand

Concepts of political communication, socialization, and public opinion. The media's role in politics, including relations between the media and government, with special focus on the media's impact on presidential elections. **Prerequisite:** POL 120

**MC 330 Photojournalism (3)****Fall:** All Years **Spring:** All Years

Photojournalism is designed to achieve the following learning outcomes: an ability to produce feature, sports, spot news, and environmental portrait photographs for the printed page; proficiency in shooting and laying out photo stories; and an introduction to the history and legal aspects of photojournalism.

**MC 331 Photo Editing (3)****Fall:** Demand **Spring:** Demand

This class is designed to achieve the following outcomes: proficiency to electronically scan, manipulate, sequence and lay out photographs for publication. **Prerequisite:** MC 330

**MC 341 Television News Writing (1)****Fall:** Demand **Spring:** All Years

A practicum whereby students participate in the development of a weekly television program or project as part of a series of newscasts, public affairs programs or informational programs. May be repeated for credit.

**MC 342 Television News Reporting (3)****Fall:** All Years **Spring:** All Years

A practicum whereby students learn to produce television news packages. Reporters learn to report on stories as assigned and work along with photographers and video editors to construct weekly news packages. Reporters may also be assigned to write readers and/or voice-overs. They narrate their own reports. Sometimes they will be asked to submit interviews for a report developed by another reporter. Reporters transcribe each of their reports for on-line publication. May be repeated for credit.

**MC 343 Television News Photography (3)****Fall:** All Years **Spring:** All Years

A practicum whereby students learn to produce television news packages. Photographers shoot stories as assigned and work along with reporters and video editors to construct weekly news packages. They may be assigned also to shoot soundbites and cover video. Photographers learn to tell stories with natural sound, natural lighting, and video sequences. May be repeated for credit.

**MC 344 Television News Video Editing (3)****Fall:** All Years **Spring:** All Years

A practicum whereby students learn to produce television news packages. Video editors work with reporters and photographers to construct weekly news packages. They may be assigned to edit video for voice-overs, soundbites and closing credits. Video editors edit television news packages with natural sound, natural lighting and video sequences. May be repeated for credit.

**MC 345 Television News Producing (2-3)****Fall:** Demand **Spring:** All Years

A practicum whereby students learn to produce television news programs. Producers stay informed about news stories, ensure that the future file is up-to-date, and assign stories to reporters, photographers, and videotape editors. Producers select readers, voice-overs, sound bites and packages for inclusion in a weekly newscast, determine the order of these stories, and develop a smooth-flowing program within time constraints. Producers coordinate numerous aspects of the news operation and provide feedback to other participants. May be repeated for credit.

**MC 356 Multimedia Authoring and Development (3)****Fall:** Odd Years

This course examines the layers, facets and the concepts of multimedia. A look at the workings of multimedia in the fields of education and training, medicine, architecture, graphic and corporate communications, and entertainment.

**MC 365 Advertising Media Strategy (3)****Fall:** All Years **Spring:** Demand

This course is designed to develop an understanding of the principles involved in the selection of media; proficiency in the evaluation of syndicated media research; proficiency in planning the strategic use of media placements; proficiency in the estimation of media costs; proficiency in the execution of media buys at the local and national levels; and proficiency in the development of a media schedule.

**Prerequisite:** MC 303**MC 366 Personal Selling (3)****Spring:** All Years

A practical course in professional selling that explores the role of personal selling in the marketing mix and the development of effective techniques for the modern sales executive.

**MC 372 Television Directing (3)****Fall:** Demand **Spring:** All Years

Theory and practice in methods of directing TV talent, blocking cameras and sets, and directing TV crews. Exercises include TV entertainment, news, and instructional productions. **Prerequisite:** MC 272

**MC 373 Radio/Television Performance (3)****Fall:** Demand **Spring:** Demand

Theory and practice in the professional areas of radio and television performance, from auditioning through final tapings. **Prerequisite:** MC 272

**MC 374 Producing for Television (3)****Fall:** Demand **Spring:** All Years

Theory and practice in the pre-production aspects of television. Includes message/audience analysis, script preparation, studio and crew management in producing a variety of television formats. **Prerequisite:** MC 372

**MC 375 Case Studies in Organizational Public Relations (3)****Fall:** Demand **Spring:** All Years

This course is designed to achieve the following learning outcomes; an ability to analyze an organizational public relations case study and identify the salient issues; an ability to assess the relative value of the public relations strategies and tactics employed in a case study; an ability to synthesize relationship-building communication strategies and tactics as a means of theory construction; and to develop a repertoire of strategic organizational public relations responses to problems and/or opportunities that impact the relationship between an organization and its external and/or internal publics.

**Prerequisite:** MC 304**MC 390 Special Topics (1-3)****Fall:** Demand **Spring:** Demand

Study of a particular mass communication topic: exploration of emerging issues, methodologies, and new technologies related to the study or application of mass communications theory not addressed in other courses. May be repeated up to 3 credits.

**MC 400 Mass Media Ethics and Issues (3)****Fall:** All Years **Spring:** All Years

Study of ethical considerations in advertising, journalism and public relations as well as major contemporary issues in the mass media. Emphasis will be placed upon research findings regarding mass media effects and the resultant alternatives for policymakers, practitioners and consumers.

**MC 401 Communications Law (3)****Fall:** All Years **Spring:** All Years

Examination of the legal and constitutional history of freedom of speech and press, and a consideration of the legal philosophy bearing upon the communications media and a system of freedom of expression. Students will do a close reading of some of the leading cases involving speech, press, assembly and petition.

**MC 405 Computer Assisted Reporting (3)****Fall:** Demand **Spring:** All Years

This course is designed to achieve the following outcomes: gain practical experience in using computer-assisted reporting (C.A.R.) techniques as well as social science research tools to write at least two in-depth stories; provide experience in covering at least two local government meetings; and develop an understanding of the theory and practice of public affairs reporting, as well as the emerging concept of public journalism.

**Prerequisite:** MC 210, MC 309**MC 410 Investigative Processes (3)****Fall:** Demand **Spring:** Demand

Examination and evaluation of search strategies, including human sources and library research, and their applications to investigative and interpretive news reporting and writing. **Prerequisite:** MC 210, MC 309

**MC 420 Multimedia Communications (3)****Fall:** All Years **Spring:** All Years

Introduction to the visual communications process, production methods and effective presentation techniques in business. Culminates in the production of an audio/graphic presentation.

**MC 423 Marketing Communications (3)****Spring:** All Years

A survey of the elements of marketing, advertising, public relations, sales promotion, and personal selling, with a strong emphasis on the strategic integration of these methods to achieve synergy in their application in the marketplace.

**MC 430 Documentary Photography (3)****Fall:** All Years **Spring:** All Years

This class is designed to achieve the following outcomes: an ability to research, photograph, organize and present a group photographic project documenting some aspect of our region. Repeatable to 6 credits.

**Prerequisite:** MC 330



**MC 440 Broadcast Documentary (3)****Fall:** All Years **Spring:** Demand

History and analysis of non-fiction documentation via radio, film and video. Each student will write a treatment and shooting script for a documentary and participate in the development of a television documentary program.

**MC 459 Advertising Campaign Research (3)****Fall:** All Years **Spring:** Demand

This course is designed to achieve the following learning outcomes: an ability to analyze an advertising campaign situation; an ability to identify salient issues relative to the market, consumer, media and product; an ability to design and construct a research plan; proficiency in conducting primary and secondary research using selective research methodologies drawn from content analysis, historical-critical analysis, survey, in-depth interview and focus groups. **Prerequisite:** MC306

**MC 460 Advertising Campaign Execution (3)****Fall:** Demand **Spring:** All Years

This course is designed to achieve the following learning outcomes: proficiency in the design and production of a strategic campaign document using the AAF topic that includes a situation analysis, a market plan, a media plan, a promotions plan, a public relations plan, an advertising plan, a budget, a campaign schedule and a plan of evaluation, oral presentation of the campaign at the annual AAF competition. **Prerequisite:** MC 459

**MC 469 Internship (1-3)****Fall:** All Years **Spring:** All Years

Practical work at an approved media agency. Repeatable to 3 credits.

**MC 470 Public Relations Campaign Research (3)****Fall:** All Years **Spring:** Demand

The course is designed to achieve the following learning outcomes: an ability to construct a research plan; proficiency in conducting primary and secondary research using selective research methodologies drawn from content analysis, historical-critical analysis, survey, in-depth interview and focus groups. **Prerequisite:** MC 307

**MC 471 Public Relations Campaign Execution (3)****Fall:** Demand **Spring:** All Years

The course is designed to achieve the following learning outcomes: proficiency to design and produce a strategic campaign document that includes a situation analysis, an analysis of the PR problem and/or opportunity, a statement of objectives, an articulation of programming executions and an identification of the mechanisms to be employed in the evaluation of a public relations campaign. **Prerequisite:** MC 470

**MC 472 Advanced Television Production (3)****Fall:** Demand **Spring:** Demand

Produce a series of programs to be aired. Includes all levels from writing and casting through taping and post-production effects. **Prerequisite:** MC 374

**MC 492 Online Journalism Workshop (3)****Fall:** Demand **Spring:** Demand

A capstone seminar designed to provide students with an opportunity to produce an online publication.

**MC 493 Topical Workshop (1-3)****Fall:** Demand **Spring:** Demand

A course designed for workshops on current media topics.

**MC 496 Mass Communications Seminar (3)****Fall:** Demand **Spring:** Demand

Study of various aspects of mass communications with subjects and instructors varying each semester.

**MC 497 Problems in Mass Communications (1-3)****Fall:** All Years **Spring:** All Years

Individual problems in areas of specific interest to the student.

## Mathematics

In some beginning mathematics courses a minimum ACT mathematics score or MnSCU placement exam is strongly recommended.

**MATH 090 Elementary Algebra (3)****Fall:** All Years

For students with weak backgrounds in algebra. Not for students having more than one year of algebra in secondary school. Signed numbers, radicals, exponents, products and factoring, solution of linear and quadratic equations. Credit not applicable to degree.

**MATH 099 Intermediate Algebra (3)****Fall:** All Years **Spring:** All Years

Exponents, algebraic fractions, polynomials, linear and quadratic equations, systems of equations. Credit not applicable to degree.

**MATH 105 [E1] Contemporary Mathematics (3)****Fall:** All Years **Spring:** All Years

Topics selected from various areas of mathematics, showing the scope and power of mathematics and emphasizing mathematical methods. Topics include circuits, networks, trees, voting analysis, sequences and recursion. Not intended to prepare students for any subsequent course.

**MATH 110 [E1] Topics in Mathematics (3)****Fall:** All Years **Spring:** All Years

Axiomatic systems, logic, sets and probability. Not intended to prepare students for any subsequent course, except MATH 203. May not be taken for credit by those who have earned credit in MDS 119.

**MATH 127 [E1] College Algebra (3)****Fall:** All Years **Spring:** All Years

Factoring, linear equations, quadratic equations, systems of equations, logarithmic and exponential equations, matrices, determinants, Cramer's rule, functions.

**MATH 142 [E1] Pre-Calculus (4)****Fall:** All Years **Spring:** All Years

Functions, exponents, radicals, inequalities, induction, progressions, binomial theorem, trigonometry. For students who intend to enroll in MATH 261.

Recommended ACT Math score at least 25.

**MATH 143 [E1] Trigonometry (3)****Fall:** All Years **Spring:** All Years

Trigonometric functions, identities, applications.

Recommended ACT Math score at least 25.

**MATH 225 Discrete Mathematics (4)****Spring:** Even Years

Sets, relations, graphs, functions, boolean algebras, trees, linear algebra, and their applications to computer science. **Prerequisite:** CSIS 150, MATH 261

**MATH 229 [E1] Fundamentals of Applied Mathematics (3)****Fall:** All Years **Spring:** All Years

Introduction to differential and integral calculus with an emphasis on applications. Introduction to matrices and their applications. Not open to mathematics majors or minors. Recommended ACT Math score at least 23.

**MATH 234 [E1] Introduction to Probability and Statistics (4)****Fall:** All Years **Spring:** All Years

Measures of central tendency and variation, probability, conditional probability and Bayes rule, probability distributions, sampling distributions and the central limit theorem, point and interval estimation, tests of hypotheses, Chi-square test, simple linear regression, and introduction to multiple regression. May not be taken for credit by those who earned credit in MATH 236. Students who have completed MATH 262 are encouraged to take MATH 335 rather than MATH 234. Not open to mathematics majors or minors. Recommended ACT Math score at least 23.

**MATH 236 [E1] Applied Statistics (4)****Spring:** All Years

Frequency distributions, introduction to probability, normal distribution, central limit theorem, estimation, tests of hypotheses, non-parametric techniques, design of experiments, one-way and two-way analysis of variance, factorial experiments, simple linear regression. May not be taken for credit by those who earned credit in MATH 234. Students who have completed MATH 262 are encouraged to take MATH 335 rather than MATH 236. Not open to mathematics majors or minors.

**MATH 238 [E1] Statistical Methods (2)****Fall:** All Years

Central limit theorem, estimation, testing of hypotheses, analysis of variance, simple linear regression, multiple regression, and model building. Not open for students who take MATH 234 or Mathematics majors or minors.

**MATH 261 [E1] Calculus I (4)****Fall:** All Years **Spring:** All Years

Calculus of one variable-differentiation, introduction to the integral. Computer Labs. Recommended ACT Math score at least 25. **Prerequisite:** MATH 142

**MATH 262 [E1] Calculus II (4)****Fall:** All Years **Spring:** All Years

Calculus of one variable-transcendental functions, applications of integrals, techniques of integration, infinite series. Computer Labs. **Prerequisite:** MATH 261

**MATH 303 [E1] Foundations of Number Systems (3)****Fall:** All Years **Spring:** All Years

Systems of numeration, rational number systems, basic geometric concepts. Open to elementary education and special education majors only. Students must have completed two years of secondary school algebra. Not open to Mathematics majors or minors.

**MATH 304 [E1] Informal Geometry (3)****Fall:** All Years **Spring:** All Years

Fundamental geometric concepts, measurement, coordinate geometry, descriptive statistics. Course is particularly appropriate for prospective elementary school teachers. Students must have completed MATH 203 with a grade of "C" or higher. Not open to Mathematics majors or minors.

**MATH 306 Mathematics for Special Education (3)****Fall:** All Years **Spring:** All Years

Development of content and methods for teaching mathematics in special education setting. Open only to majors and minors in special education. Does not substitute for MATH 406.

**MATH 316 Teaching Mathematics in the Middle Grades (3)****Spring:** All Years (beginning Spring 01)

Materials and methods of teaching mathematics in grades 5-8. Open only to math majors with a concentration in teaching and to elementary education majors with a specialty in mathematics.

**Prerequisite:** MATH 303, MATH 304 OR Math education major (secondary) with junior standing

**MATH 323 [E1] Multi-Variable and Vector Calculus (4)****Fall:** All Years **Spring:** All Years

Calculus of several variables—partial differentiation, multiple integration, vector calculus, line and surface integrals, Stoke's Theorem, Green's Theorem.

**Prerequisite:** MATH 262

**MATH 327 Introduction to Linear Algebra (3)****Fall:** All Years

Systems of linear equations, Gauss-Jordan elimination, linear programming, matrices, determinants, vector spaces, linear transformations, and eigenvectors.

**Prerequisite:** MATH 262

**MATH 335 Intermediate Probability and Statistics I (3)****Fall:** All Years **Spring:** All Years

Probability, probability distributions of discrete random variables, probability density functions, expected value and variance, sampling distributions and central limit theorem, point and interval estimation, and tests of hypothesis for the population mean.

**Prerequisite:** MATH 262**MATH 336 Intermediate Probability and Statistics II (4)****Spring:** All Years

One and two sample tests of hypotheses, Chi-square tests, analysis of variance and design of experiments, simple linear regression, multiple linear regression, sequential selection procedures, multicollinearity and introduction to time series. **Prerequisite:** MATH 335

**MATH 355 Mathematical Modeling (3)****Spring:** Even Years

Techniques of developing and analyzing mathematical descriptions of physical phenomena.

**Prerequisite:** MATH 323, MATH 327**MATH 357 Introduction to Operations Research (3)****Fall:** Demand **Spring:** Demand

Linear programming, network analysis, dynamic programming, queuing theory, decision analysis, advanced programming techniques.

**Prerequisite:** MATH 327, MATH 335**MATH 361 Intermediate Analysis I (4)****Fall:** All Years

A rigorous treatment of concepts of calculus and foundations of mathematics including logic and sets, Bolzano-Weierstrass Theorem, limits, Heine-Borel Theorem, continuity, and derivative.

**Prerequisite:** MATH 323, MATH 327**MATH 362 Intermediate Analysis II (3)****Spring:** All Years

A continuation of the rigorous treatment of concepts of calculus and foundations of mathematics including the Riemann integral, infinite series, and uniform convergence. **Prerequisite:** MATH 361

**MATH 366 Differential Equations (3)****Spring:** All Years

Standard methods of solution for elementary ordinary differential equations. **Prerequisite:** MATH 323 OR current enrollment in MATH 323

**MATH 385 Foundations of Geometry (3)****Spring:** All Years

Systems of geometry such as Euclidean, non-Euclidean, coordinate, synthetic, transformational and projective.

Models in geometric systems. **Prerequisite:** MATH 323, MATH 327

**MATH 401 Special Methods in Mathematics in Elementary School (2)****Fall:** Demand **Spring:** Demand

Adapted to the needs and experience of those enrolled. By arrangement.

**MATH 406 Mathematics in the Elementary School (3)****Fall:** All Years **Spring:** All Years

Materials and methods of teaching elementary school mathematics. Open only to elementary education majors. Usually taught in PFY. **Prerequisite:** MATH 303, MATH 304

**MATH 416 Mathematics in the Secondary School (3)****Fall:** All Years

Objectives, methods, materials, and evaluation. This course is the upper division writing course for BS majors in mathematics with emphasis in teaching. Students in this course must have Junior standing.

**MATH 435 Mathematical Statistics I (4)****Fall:** Odd Years

Probability, random variables, discrete and continuous probability distributions, marginal and conditional densities, moment generating functions, transformations, and limiting distributions. Topics from sampling, and sampling distributions, parametric point estimation and tests of hypotheses will also be covered.

**Prerequisite:** MATH 335**MATH 436 Mathematical Statistics II (3)****Spring:** Demand Even Years

Point and interval estimation, sufficient statistics, hypothesis testing, Neyman-Pearson Lemma, likelihood ratio tests, Bayesian estimation techniques, Chi-square tests. **Prerequisite:** MATH 435

**MATH 450 Numerical Analysis I (4)****Fall:** Even Years

Numerical solutions to systems of equations and differential equations, finite differences, interpolation formulas, numerical calculus, and approximating functions. **Prerequisite:** MATH 323, CSIS 150

**MATH 451 Numerical Analysis II (3)****Spring:** Demand Odd Years

Topics related to linear algebra and differential equations. **Prerequisite:** MATH 366, MATH 327, MATH 450.

**MATH 467 Complex Analysis (3)****Fall:** Demand **Spring:** Demand

Complex numbers and variables, analytic functions, the Cauchy integral formula, infinite series, and calculus of residues. **Prerequisite:** MATH 361

**MATH 469 Student Internship (3-12)****Fall:** Demand **Spring:** Demand

**MATH 476 Abstract Algebra I (4)****Fall:** All Years

Groups, rings and integral domains studied as abstract mathematical systems. Lagrange's theorem, factor groups, homomorphisms, polynomial rings and quotient rings. **Prerequisite:** MATH 327

**MATH 477 Abstract Algebra II (3)****Spring:** Demand

Fields, field extensions and the theory of finite dimensional vector spaces. Linear transformations and their matrix representations and characteristic values.

**Prerequisite:** MATH 476**MATH 480 General Topology (3)****Fall:** Demand **Spring:** Demand

Metric spaces, topological spaces, continuity, compactness, connectedness, and separation axioms.

**Prerequisite:** MATH 361**MATH 483 Theory of Numbers (3)****Fall:** Demand **Spring:** Demand

Topics from elementary number theory such as divisibility, congruences, Diophantine equations, number theoretic functions and continued fractions.

**Prerequisite:** MATH 327**MATH 486 History of Mathematics (3)****Fall:** Demand **Spring:** Demand

Topical and chronological survey of the main branches of mathematics. **Prerequisite:** MATH 262

**MATH 490 Special Problems in Mathematics (1-4)****Fall:** Demand **Spring:** Demand

For advanced students to work on independent problems. May be repeated to a maximum of 6 credits.

**MATH 491 Seminar: Mathematics (1-2)****Spring:** All Years

This course is the upper division writing course for BA majors in mathematics and BS majors with Computational or Actuarial emphasis.

**MCS 203 [F1] Chicano Culture (3)****Fall:** All Years **Spring:** All Years

Key aspects of Chicano culture with an emphasis on literature, history and philosophy.

**MCS 210 [F1] African American Humanities: Roots (4)****Fall:** All Years **Spring:** All Years

A multidisciplinary survey of the forces shaping the arts and humanities of African Americans from the cultural resources of African traditional roots and American slave experiences through the 20th century.

**MCS 211 [F1] Contemporary African American Community (3)****Fall:** All Years **Spring:** All Years

Political, economic, and social issues of contemporary African Americans within the United States.

**MCS 218 [F1] American Indian Belief Systems (3)****Spring:** All Years

American Indian Belief Systems focuses on common thematic elements found throughout diverse North American Indian communities. It introduces the students to the sacred ways of the Indians through oral tradition, songs, prayers, interviews, speeches and contemporary literature. There will be a critical examination of the relationships between world view, spiritualism, technologies and the human and non-human communities.

**MCS 219 [F1] Plains Indian Cultures (3)****Fall:** Even Years

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

**MCS 225 [F1] Ojibwe Culture (3)****Fall:** Even Years **Spring:** Odd Years

Examines Ojibwe Culture from a holistic perspective. The people, their land, their way of life, their world view and religious beliefs will be studied. Emphasis will be placed on traditional material and primary sources.

**MCS 233 [F1] Education and Multicultural America (3)****Fall:** Demand

This course is designed to offer future educators a perspective on the enculturation and formal education of African Americans, American Indians, and Latinos.

**MCS 270 Indian Education: North Dakota (2)****Spring:** All Years

An overview of the nature, purpose, history, philosophy and programs of traditional and contemporary American Indian education. Designed especially, but not exclusively, to assist students who plan to work in some area of education where an understanding and appreciation of Indian culture is essential. Requirement for teaching in North Dakota.

**Multicultural Studies****MCS 102 [F1] The Contemporary American Indian (3)****Fall:** All Years

The experience of the indigenous peoples of North America, focusing on the past decade of both reservation and urban Indians.

**MCS 103 [F1] The Contemporary Chicano (3)****Fall:** All Years **Spring:** All Years

Political, economic and social developments within the Chicano community.

**MCS 202 [F1] Traditional American Indian Cultures (3)****Fall:** All Years **Spring:** All Years

A historical perspective on living, traditional cultures of American Indian groups. Topics include tribal entities, religion, arts, life-styles and ecological adaptations.

**MCS 290 Topics in MCS (1-3)****Fall:** Demand **Spring:** Demand

Exploration of a specific MCS topic. This course may be repeated as topic varies.

**MCS 301 [F1] African American Music (3)****Fall:** Odd Years

A survey of African American music traditions.

**MCS 311 [F1] African American Art (2)****Fall:** Demand

An appreciation and understanding of the art and artists of Black America from the beginning of their folk art expression to the present.

**MCS 325 [F1] African American Theatre (3)****Spring:** Demand

Survey of selected plays by African American writers from the 19th and 20th centuries. Focus on aesthetic and interpretative dimensions grounded in African American historical and cultural contexts. MCS 210 or 211 or SPCH 220 are highly recommended as prerequisites.

**MCS 332 [F1] Indians of the Southwest (3)****Fall:** Odd Years

Indians of the Southwest is a course which focuses on the cultures of American Indian Peoples of Arizona, New Mexico and adjacent areas. It introduces students to the ways of life of selected communities through oral tradition, beliefs, intercultural contacts and arts.

**MCS 372 [F1] Dynamics of Prejudice and Oppression (4)****Spring:** All Years

An examination of philosophical dimensions, dynamics and consequences of prejudices and oppression based on race, class, gender, sexual orientation and ability. Students will be expected to recognize, critically analyze and identify both shared and unique structural dimensions of various forms of oppression and discuss potential strategies for dismantling oppression. No more than 3 credits to be applied to the Philosophy major.

**MCS 390 Topics in Multicultural Studies (1-3)****Fall:** Demand **Spring:** Demand

Exploration of a specific topic. This course may be repeated as topic varies.

**MCS 461 Readings: Multicultural Studies (1-3)****Fall:** Demand **Spring:** Demand

Independent reading and research.

**MCS 469 Internship (3-12)****Fall:** Demand **Spring:** Demand**Multidisciplinary Studies****MDS 095 Mathematics I (4)**

This course is designed to correct math deficiencies in order to insure success in areas requiring a good basic math background. Topics include: mathematical skills in arithmetic, geometrical concepts, signed numbers, linear equations, system of equation in two variables, operations with polynomials, exponents, factoring.

**MDS 104 [C] Values, Choices, and Behavior (4)**

The course is designed to evoke an understanding of human potential from the perspective of Humanistic Psychology. There will be a questioning of human values in conjunction with the integration and application of psychological concepts as they relate to the growth of the self. Systems of values will be used as a basis for an understanding of the relationships involved in human growth.

**MDS 106 Career Exploration (1-2)**

The course is designed to develop realistic concepts of work and increase the understanding of the factors that affect career decision-making and career satisfaction.

**MDS107 [C] Human Development/Growth in the Modern World (3)**

Introduces the research methods used in the social sciences and examines the continuous process of human development and growth: the male and female systems in change, the factors involved in producing positive change, and the search for fulfillment of human potential.

**MDS 109 Introduction to Higher Education (1)**

Devoted to the acquisition of skills and techniques necessary to make the successful transition from secondary school to the university. Required of all MDS students.

**MDS 110 [E] Expressive Writing (3)**

Written expression of personal thought and feeling employing the use of various techniques in building writing versatility, including clustering, modeling, revising through peer and small group editing, and reviewing grammar.

**MDS 111 [A] Expository Writing (4)**

Developing strategies for writing a variety of expository essays — from journal responses to essays that narrate, describe, analyze, compare and contrast, classify, show causal connections and argue. Emphasis on the writing process, including pre-writing, peer and small group editing, and revision. Reading essays and fiction with later writing assignments focusing on reading and analyzing fiction. This course is the equivalent of English 101.

**MDS 113 Introduction to Critical Reading (2)**

This course enhances college level reading skills in the area of comprehension and vocabulary and introduces the student to critical reading and the analysis of literature.

**MDS 115 [E] Interpersonal Communication (3)**

Basic communication theory as applied to individual behavior, including perception, self concept, verbal and nonverbal communication, self-disclosure, and conflict management. Other pertinent topics given attention are the ethics of communication, gender specific language, and racism-prejudice. Emphasis on application and personal growth.

**MDS 117 College Survival Skills (1)**

Topics include time and stress management; motivation and concentration improvement; note-taking from both lectures and text; memorization, test-taking, and effective study techniques.

**MDS 118 Listening (1)**

Study of listening theory and research; focus on the various listening modes; emphasis on practical application and experience for the strengthening of effective listening behavior.

**MDS 119 [E1] Contemporary Mathematics (3)**

This course provides the opportunity to apply mathematical theory in everyday life. Topics include: sets and numeration systems, logic, number theory, statistics, geometry, mathematical systems.

**MDS 121 Business Mathematics (3)**

This course emphasizes various areas of mathematics showing their applications in business world. Topics include: fundamental mathematical skills for business, accounting mathematics, business finance, taxes.

**MDS 123 [E1] Mathematical Ideas (4)**

Topics selected from various areas of mathematics consisting of functions, exponents, system of equations, polynomials, linear and quadratic equations, progressions, descriptive statistics, probability, emphasizing the mathematical techniques and showing the scope of mathematics. *Prerequisite:* MDS 095

**MDS 123A [E1] Mathematical Ideas (2)**

**Fall:** All Years

Topics selected from various areas of mathematics consisting of functions, exponents, system of equations, polynomials, linear and quadratic equations, progressions, descriptive statistics, and probability, emphasizing the mathematical techniques and showing the scope of mathematics. Students who complete 123A and 123B have a mathematical understanding equivalent to MDS 123.

**MDS 123B [E1] Mathematical Ideas (2)**

**Spring:** All Years

Topics selected from various areas of mathematics consisting of functions, exponents, system of equations, polynomials, linear and quadratic equations, progressions, descriptive statistics, and probability, emphasizing the mathematical techniques and showing the scope of mathematics. Students who have completed MDS 123B and MDS 123A have a mathematical understanding equivalent to MDS 123.

**MDS 124 Topics (1-3)**

Topic varies at discretion of department

**MDS 125 Introduction to Computers (1)**

Introduction to the uses of the computer, including word processing, basic programming and binary math.

**MDS 130 [C] Exploring Marriage and Family (4)**

An introductory social science class that examines the social institutions of marriage and family. Current trends and theoretical constructs will be reviewed.

**MDS 132A [C] Human Sexuality/Social and Psychological Factors (3)**

**Fall:** All Years

A multidisciplinary exploration of sexuality that encompasses biological, psychological, and social factors which interact in the development of gender, gender identity, gender roles, and sexual behavior. This course has an emphasis on social and psychological factors. MDS 132A and MDS 132B must be taken concurrently.

**MDS 132B [B] Human Sexuality/Biological Factors (1)**

**Fall:** All Years

A multidisciplinary exploration of sexuality that encompasses biological, psychological, and social factors which interact in the development of gender, gender identity, gender roles, and sexual behavior. This course has an emphasis on biological factors. MDS 132B and MDS 132A must be taken concurrently.

**MDS 162 [D1] Introduction to Dramatic Art (3)**

The study of theatrical works as a means of interpretation and commentary on society and the human condition. Historical background, criticism and analysis of plays dating from the Greeks to the present.

**MDS 170 Studies in Popular Culture (1-3)**

Individual topics in contemporary culture, discussing the need for self-expression, the relationship of art and society, and human freedom and fate.

**MDS 171 [D1] Comedy: Society's Mirror (3)**

Comedy in its various forms. Analysis of how comedy reflects societal values, morals and behavioral expectancies. Traces historical themes, conventions and methods.

**MDS 172 [D] Contemporary Values through Science Fiction (3)**

Contemporary values reflected in selected science fiction novels, short stories and film. The relationship of science fiction to fiction as a genre is also studied.

**MDS 173 [D] Life Stages and Literature (3)**

The stages of life as depicted in literature and film. Works include those written for children, adolescents and adults.

**MDS 174 [D] Writings from Where We Are (3)**

A multidisciplinary exploration of the themes found in the literature, both fiction and non-fiction, of the Upper Midwest.

**MDS 175 [D1] The Fabulous 50s (3)**

An examination of how literature, art, music and film reflect and offer insight into the popular values of the United States during the decade of the 1950s.

**MDS 176 [D] Voyage of the Hero (3)**

An examination of the quest motif in ancient, classical, medieval and modern literature, focusing on the hero's journey from birth through apotheosis. Exploration of the quest motif in relationship to the individual's personal development and quest.

**MDS 178 [F1] Reading Multicultural Literature (3)**

An introduction to diverse peoples within the world community through the study of literature. Short stories and poetry from countries around the world as well as works by Native Americans, Hispanic Americans, African Americans, and Asian Americans will be examined to enhance students' ability to analyze literature.

**MDS 180 [B1] Plants and Humans I (2)**

The importance of plants to human social and economic development and the human role in the modification and distribution of plants.

**MDS 181 [B1] Plants and Humans II (2)**

The importance of plants to human social and economic development and the human role in the modification and distribution of plants.

**MDS 182 [B1] Ethnobotany: Plants, People and Culture (3)**

Study of the human uses of plants with special emphasis on utilizing a broader spectrum of wild and indigenous plants.

**MDS 185 [B1] Humans and Their Environment (3)**

The study of the mechanisms by which balances and stability are maintained in nature.

**MDS 192 [B1] Science of the Human Body (4)**

The study of biological processes as illustrated by the structures and functions of the human body.

**MDS 195 [B1] Astronomy (3)**

Survey lab-based course in constellation identification, use of star chart, history of astronomy, stellar evolution and cosmology.

**MDS 196 [B1] Foundations of Physical Science (4)**

Acquaints students with the basic concept of modeling in science to introduce them to the fundamentals of chemistry and physics. The material will emphasize mathematical models. The course also examines how science affects our daily life and discusses some of the relevant science topics of the time.

**MDS 197 [B1] Natural Phenomena (3)**

An introductory course in science covering: the history of science and the tools of science; the application of the tools in the study of natural phenomena; the development of the models of the atom and light; and the application of these models in the investigation of environmental concerns.

**MDS 198 [B1] Science of Energy Technologies (3)**

**Spring:** All Years

This course will examine the relationships among civilization, society and energy. It will then look at the models of various forms of energy as developed through the science of physics and how these models are used to develop solar technologies.

**MDS 205A [C] Group Dynamics/Theory (2)**

**Fall:** All Years **Spring:** All Years

An introduction to theory and practice of small group interaction and process. Students will be expected to apply learning to their own and others' behavior in small group exercises and projects, developing a wider and more integrated understanding of small group processes and increasing the effectiveness of their group membership skills. This course covers group theory derived from the social sciences. MDS 205A and MDS 205B must be taken concurrently.

**MDS 205B [E] Group Dynamics/Interpersonal Communications (2)**

**Fall:** All Years **Spring:** All Years

An introduction to theory and practice of small group interaction and process. Students will be expected to apply learning to their own and others' behavior in small group exercises and projects, developing a wider and more integrated understanding of small group processes and increasing the effectiveness of their group membership skills. This course introduces interpersonal communications processes which provide the basis for developing communication skills within small groups. MDS 205B and MDS 205A must be taken concurrently.

**MDS 226 [C] Athletics in the U.S. (3)**

An introductory social science class designed to analyze sports as a microcosm in contemporary American society. Topics include; youth sports and college sports; the transmission of cultural values through sports; prominent social problems in sports; and the impact of media and economics on sports, particularly at the college and professional levels.

**MDS 227 [C] Corporations: History, Structure, Influence (3)**

A multidisciplinary look at the origins, development, and direction of large corporations, using case studies of representative companies.

**MDS 228 [C] The Automobile in America (3)**

The impact of the automobile on American society through the insights of history, economics, sociology, politics, literature, and popular culture.

**MDS 229 [C] Perspectives on 1980 (3)**

Examination of a single "landmark year" from the perspectives of anthropology, history, political science, sociology, and economics. Introduces some of the distinctive approaches of these disciplines.

**MDS 232A [C] Women's Roles and Socialization in 19th and 20th Century America (2)**

**Spring:** All Years

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. This course provides a basis to develop an overall understanding of women's position in society and will focus on the social/historical perspective. MDS 232A and MDS 232B must be taken concurrently.

**MDS 232B [D1] Women's Roles and Socialization in 19th and 20th Century America (1)**

**Spring:** All Years

A socio-historical perspective in developing a critical understanding of women's gender-role socialization in our society in the past two centuries. This course provides a basis to develop an overall understanding of women's position in society and has a historical literature component. MDS 232B and MDS 232A must be taken concurrently.

**MDS 281 Career Placement (1-4)**

Placement on the job in a position closely related to the student's academic work. For Multidisciplinary Studies students only.

**MDS 290 Topics in Multidisciplinary Studies (1-3)**

Studies integrating concepts from two or more academic disciplines. Topics will focus on the natural, social, artistic, or cultural realm, or combinations thereof. May be repeated when topic changes for up to six credits.

**MDS 295 Topics in Behavioral Sciences (1-3)**

Study focusing on a specific topic within the behavioral sciences. May be repeated for credit when topic changes.

## Music

**MUS 070 Remedial Music Reading (1)**

**Fall:** Demand

Fundamental music notation concepts and basic music reading skills directed toward sight singing and keyboard. Designed for the prospective major with a weak background in music reading. Required of all students judged likely to do poorly in Mus 103, based on the results of a diagnostic exam. Offered only pass/fail. No credit given toward requirements in music major or minor.

**MUS 100 Careers in Music (1)**

**Fall:** All Years

A general survey to introduce the student to the broad range of career possibilities in the field of music.

**MUS 101 Music Materials and Literature I (1)**

**Fall:** All Years

Emphasis on listening skills with respect to recognition of basic musical elements, forms, and genres. Exposure to a variety of music repertoires. Attention also given to reading, writing, and talking about music.

**MUS 102 Music Materials and Literature II (1)**

**Spring:** All Years

Continuation of 101. **Prerequisite:** MUS 101

**MUS 103 Music Reading (2)**

**Fall:** All Years

Focus on music reading and development of sight singing skills. Familiarity with notation is required. A diagnostic test will determine readiness for this course. This course is to be taken concurrently with Mus 150A, Class Piano.

**MUS 104 Music Theory (3)**

**Spring:** All Years

Principles and techniques of the tonal language system of the common practice period. Rhythms, Scales, Keys, Chord structures, Chord progressions. Creative application through composition, improvisation, performance. **Prerequisite:** MUS 103

**MUS 105 Ear Training I: Rhythm (1)**

**Fall:** All Years **Spring:** All Years

Development of aural/reading skills—Rhythm concentration, with melodic and harmonic basics to parallel concepts in Mus 104. Involves competency evaluation in music reading, aural/visual analysis, dictation, and error detection. **Prerequisite:** MUS 103



**MUS 110 [D] Musicianship for Non-Majors (2)****Fall:** Demand

Fundamentals of music notation, music reading, and theory. Creative application through composition and performance. Assumes minimal previous musical experience.

**MUS 111 [D] The Art of Listening (3)****Fall:** All Years **Spring:** All Years

Designed for non-majors. Focus on perceptive listening and learning about music's sound components and patterns of design, characteristics of various genres and their communicative possibilities. Exposure to a broad repertory of music examples.

**MUS 120 [D] Concert Band (1)****Fall:** All Years **Spring:** All Years

Open to all university students without audition. A variety of concert band literature is performed. May be repeated for credit.

**MUS 121 [D] Festival Mixed Choir (1)****Fall:** All Years **Spring:** All Years

Open to all university students without audition. Singers perform choral literature selected from classical and modern styles. May be repeated for credit.

**MUS 122 [D] Festival Women's Choir (1)****Fall:** All Years **Spring:** All Years

Open to all university women without audition. Singers perform choral literature selected from classical and modern styles. May be repeated for credit.

**MUS 150A Class Piano (1)****Fall:** All Years

Class instruction. Entry level piano course focusing on basic technique, primary chords and harmonizing. Intended for music majors/minors with limited background in applied piano instruction.

**MUS 150B Class Piano II (1)****Spring:** All Years

Class instruction. Continuation of Mus 150A. Further development of piano technique, physical coordination and independence between the hands. Study of major scales and beginning level standard piano literature.

**Prerequisite:** MUS 150A**MUS 152 Class Voice (1)****Fall:** All Years **Spring:** All Years

Class instruction. Designed for students with limited background in applied voice instruction. May be repeated for credit.

**MUS 154 Music Performance: Voice: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 155A Music Performance: Piano: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 155B Music Performance: Organ: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 155C Music Performance: Harpsichord: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 156A Music Performance: Trumpet: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 156B Music Performance: Horn: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 156C Music Performance: Trombone: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 156D Music Performance: Euphonium: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 156E Music Performance: Tuba: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 157A Music Performance: Flute: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 157B Music Performance: Oboe: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 157C Music Performance: Clarinet: Level 1 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 157D Music Performance: Bassoon:  
Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 157E Music Performance: Saxophone:  
Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 158A Music Performance: Violin: Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 158B Music Performance: Viola: Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 158C Music Performance: Cello: Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 158D Music Performance: Bass: Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 158E Music Performance: Acoustic Guitar:  
Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 158F Music Performance: Electric Guitar:  
Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 159 Music Performance: Percussion:  
Level 1 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction or small group (2 or 3 people) instruction and master classes. May be repeated for credit.

**MUS 170 Composition: Level I (1)**

**Fall:** All Years **Spring:** All Years  
Individual and/or small group instruction. May be repeated for credit. **Prerequisite:** MUS 103

**MUS 191 Diction (2)**

**Fall:** Odd Years  
Instruction for voice students in the proper pronunciation of foreign languages for solo song and choral singing. Introduction to the IPA for notation of speech sounds.

**MUS 201 Form and Analysis I (2)**

**Fall:** All Years  
Visual and aural analysis of homophonic forms with application through composition and performance. Discussion of historical context. Involves analysis of chromatic harmony. **Prerequisite:** MUS 104

**MUS 202 Instrumentation (1)**

**Fall:** All Years  
Basic principles of composition and arranging for specific instruments and ensembles. **Prerequisite:** MUS 104

**MUS 203 Form and Analysis II (2)**

**Spring:** All Years  
Visual and aural analysis of polyphonic forms with application through composition and performance. Discussion of historical context. Involves analysis of both tonal and atonal counterpoint. **Prerequisite:** MUS 201

**MUS 205 Ear Training II: Melody (1)**

**Fall:** All Years **Spring:** All Years  
Development of aural/reading skills - Melody concentration, with continued skill building in rhythm and harmony. Involves competency evaluation in music reading, aural/visual analysis, dictation and error detection. **Prerequisite:** MUS 104

**MUS 206 Ear Training III: Harmony (1)**

**Fall:** All Years **Spring:** All Years  
Development of aural/reading skills - Harmony concentration, with continued skill building in rhythm and melody. Involves competency evaluation in music reading, aural/visual analysis, dictation and error detection. **Prerequisite:** MUS 201

**MUS 209 Survey of Non-Western Music (2)**

**Spring:** All Years  
An introduction to musics outside of Western European tradition. Selected reading and listening materials from these areas/cultures are surveyed: African, Indian, the Far East, Indonesian, American Indian, Latin American, Middle East, and Eastern Europe. Study focuses on similarities and differences in musical style and cross influences between the various repertoires.

**MUS 210 [D1] Survey of Western Music (3)****Fall:** All Years **Spring:** All Years

Designed for non-majors. A historical approach to music literature. The study of composers and musical styles of Western music from 1600 to present. MUS 111 is recommended as a preliminary course.

**MUS 215 [D1] History of Jazz (3)****Fall:** All Years **Spring:** All Years

Designed for non-majors. A survey of the development of jazz from its roots through the contemporary period. Emphasis will be placed on stylistic changes. Music 111 is recommended as a preliminary course.

**MUS 216 [F] World Music Survey (3)****Spring:** Even Years

Designed for non-majors. An introduction to the varied music repertoires of the world. Similarities to and differences from Western musical culture will be noted, as well as cross influences between the repertoires.

**Prerequisite:** MUS 111**MUS 217 [D] Pop/Rock Music for Non-Majors (2)****Fall:** Odd Years

Surveys pop/rock music from 1956 to the present identifying artists, styles and songwriting techniques for the non-musician.

**MUS 219 Singing Skills for Musical Theatre (1)****Fall:** Even Years

Designed for theatre students. Principles of body alignment and breathing, vocal exercises, and diction. May be repeated for credit.

**MUS 220 [D] Symphonic Wind Ensemble (1)****Fall:** All Years **Spring:** All Years

Open to all university students. Selection by audition. Challenging Wind Band literature from varied periods and styles. Annual tour. May be repeated for credit.

**MUS 221 [D] Jazz Ensemble (1)****Fall:** All Years **Spring:** All Years

Large group jazz ensemble. Open to all university students. Selection by audition. Performance of a variety of jazz styles. May be repeated for credit.

**MUS 222 [D] Concert Choir (1)****Fall:** All Years **Spring:** All Years

Open to all university students. Selection by audition. Repertoire spans Renaissance to modern styles. Annual tour. May be repeated for credit.

**MUS [D] 223 Chamber Singers (1)****Fall:** All Years **Spring:** All Years

Select ensemble. Simultaneous membership in Concert Choir required. Repertoire is varied vocal chamber music. May be repeated for credit.

**MUS [D] 224 Vocal Jazz Ensemble (1)****Fall:** All Years **Spring:** All Years

Open to all university students. Selection by audition. Jazz style repertory with both a cappella singing styles and works accompanied by rhythm section. May be repeated for credit.

**MUS [D] 225 Orchestra (1)****Fall:** All Years **Spring:** All Years

Open to all university students. Selection by audition. Performance of variety of orchestral music, including opera, musical theatre, combined orchestra and chorus, concerto. Annual tour. May be repeated for credit.

**MUS 226 [D] Collegium Musicum (1)****Fall:** Demand **Spring:** Demand

Open to all university students. Vocal and/or instrumental performance of music from the late Middle Ages through the Baroque period. May be repeated for credit.

**MUS 227 [D] Opera Workshop (1-2)****Fall:** Demand **Spring:** Demand

Open to all university students. Selection by audition. Performance of a variety of opera scenes as well as full opera production. May be repeated for credit.

**MUS 228 [D] Tri-College Percussion Ensemble (1)****Fall:** All Years **Spring:** All Years

The Tri-College Percussion Ensemble is a chamber music organization consisting of approximately 15 to 20 musicians who perform on the many and varied definite and indefinite pitched instruments of the percussion family. The group performs a wide variety of literature from the standard repertoire, as well as arrangements of popular, classical and folk music. The ensemble is open to students of all levels who express an interest in performing on percussion instruments. May be repeated for credit.

**MUS 231 Methods for Teaching Woodwinds I (1)****Spring:** Odd Years

Methods and materials for teaching individual woodwind instruments in the public schools. Focus on clarinet and flute.

**MUS 232 Methods for Teaching Woodwinds II (1)****Fall:** Odd Years

Methods and materials for teaching individual woodwind instruments in the public schools. Focus on oboe, bassoon, and saxophone.

**MUS 233 Methods for Teaching Brass Instruments (1)****Fall:** Even Years

Methods and materials for teaching individual brass instruments in the public schools.

**MUS 234 Methods for Teaching String Instruments (1)****Spring:** Even Years

Methods and materials for teaching individual string instruments in the public schools.

**MUS 235 Methods for Teaching Percussion (1)****Fall:** Odd Years

Methods and materials for teaching individual percussion instruments in the public schools.

**MUS 236 Guitar for General Music (1)****Fall:** All Years

Fundamentals of guitar playing for use in the general music programs in the public schools.

**MUS 240 [D1] American Music (2)****Spring:** Odd Years

Historical survey of music in the United States.

**Prerequisite:** MUS 111**MUS 250 Jazz Improvisation (1)****Fall:** All Years

An introduction to jazz improvisation with an emphasis on small group performance techniques. Related materials include modal harmony, 12 bar blues, form, standard popular song form, and an introduction to jazz theory and related chord scales.

**Prerequisite:** MUS 101, MUS 103**MUS 251 Commercial Applied Voice (1-2)****Fall:** Odd YearsClass instruction and recording studio experience in commercial singing styles, techniques, etiquette and vocal health. **Prerequisite:** MUS 154**MUS 252 Advanced Jazz Improvisation (2)****Spring:** All YearsThis course will continue the concepts presented in MUS 250 as well as introduce the student to advanced chord/scale relationships. The course will also explore the classic small group jazz repertoire of the late 40's, 50's, and early 60's. **Prerequisite:** MUS 250**MUS 254 Music Performance Voice: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 255A Music Performance Piano: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 255B Music Performance Organ: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 255C Music Performance Harpsichord:****Level 2 (1-2)****Fall:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 256A Music Performance Trumpet:****Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 256B Music Performance Horn: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 256C Music Performance Trombone:****Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 256D Music Performance Euphonium:****Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 256E Music Performance Tuba: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 257A Music Performance Flute: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 257B Music Performance Oboe: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 257C Music Performance Clarinet:****Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 257D Music Performance Bassoon:****Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 257E Music Performance Saxophone:****Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 258A Music Performance Violin: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 258B Music Performance Viola: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 258C Music Performance Cello: Level 2 (1-2)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 258D Music Performance Bass: Level 2 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction and master classes. May be repeated for credit.

**MUS 258E Music Performance Acoustic Guitar: Level 2 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction and master classes. May be repeated for credit.

**MUS 258F Music Performance Electric Guitar: Level 2 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction and master classes. May be repeated for credit.

**MUS 259 Music Performance Percussion: Level 2 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual instruction and master classes. May be repeated for credit.

**MUS 261 Music Industry Survey I (2)**

**Spring:** All Years  
Part one of a two-semester comprehensive overview of the music industry. Topics are music in the marketplace, songwriting, publishing, copyright, business affairs, licensing, unions and guilds, agents, artist management, concert promotion, music and theater, merchandising, and arts administration. **Prerequisite:** MUS 100

**MUS 262 Music Industry Survey II (2)**

**Fall:** All Years  
Part two of a two semester comprehensive overview of the music industry. Topics are the recording industry, record markets, artists' recording contracts, record production, distribution and retailing, studios, environmental music, music in radio, television, film, and advertising, issues in international music.

**Prerequisite:** MUS 100

**MUS 270 Composition: Level 2 (1-2)**

**Fall:** All Years **Spring:** All Years  
Individual and/or small group instruction. Study includes composition in several musical styles. May be repeated for credit.

**MUS 278 Jazz Theory (2)**

**Spring:** Even Years  
A study of the fundamental elements of jazz harmony, melody, and rhythm. Written assignments and ear training. **Prerequisite:** MUS 201

**MUS 291 Individual Projects (1-2)**

**Fall:** All Years **Spring:** All Years  
Individualized study in specialized areas in music. May be repeated for credit. **Prerequisite:** MUS 104

**MUS 300 Elements of Conducting (1)**

**Spring:** All Years  
Development of baton techniques and basic score reading skills. **Prerequisite:** MUS 201

**MUS 301 Music of the 20th Century (3)**

**Fall:** All Years  
Survey of literature and materials of 20th Century music. Integrated musicianship skills. **Prerequisite:** MUS 203

**MUS 302 Classic/Romantic Music (3)**

**Spring:** All Years  
Survey of the music of the Classic and Romantic periods (1750-1900). Integrated musicianship skills. **Prerequisite:** MUS 201

**MUS 319 Music for Classroom Teachers (3)**

**Fall:** All Years **Spring:** All Years  
Basic musicianship skills and theory developed through vocal, keyboard, and recorder experiences. Examination of teaching methods and materials, learner outcomes and assessment. Required for elementary education majors. Not intended for music majors or minors.

**MUS 321 Small Commercial Ensemble (1)**

**Fall:** All Years **Spring:** All Years  
Preparation and performance of variety of pop/rock music styles. May be repeated for credit.

**MUS 322 Jazz Combo (1)**

**Fall:** All Years **Spring:** All Years  
Small group jazz ensemble. May be repeated for credit.

**MUS 333 Teaching General Music K-12 (3)**

**Fall:** All Years  
Administration of the public school K-12 general music curriculum. Study of teaching methods and materials, learner outcomes and evaluation procedures. Required of both vocal and instrumental education majors.

**MUS 334 Secondary School Choral Methods (2)**

**Spring:** Even Years  
Administration of the high school vocal music program. Study of objectives and evaluation procedures, teaching methods and materials.

**MUS 335 Organization of the Instrumental Music Program (2)**

**Spring:** Odd Years  
Administration of the instrumental program in the public schools.

**MUS 340 Baroque Music (2)**

**Spring:** Even Years  
Survey of the music of the Baroque period (1600-1750). **Prerequisite:** MUS 203

**MUS 341 Middle Ages and Renaissance Music (2)**

**Fall:** Even Years  
Survey of the music from the Middle Ages and Renaissance periods. **Prerequisite:** MUS 203

**MUS 342 History of Rock/Pop Music (2)****Spring:** Odd Years

Historical survey of rock and popular music from 1956 to the present.

**MUS 343 Jazz History (2)****Fall:** Odd Years

Historical survey of American jazz.

**MUS 351 Commercial Keyboards (1)****Spring:** All Years

Study and practice of keyboard usage in popular literature of the last 100 years. Styles will range from early blues and ragtime to various Latin styles and rock. Analysis of chordal structures and idiomatic usage. May be repeated for credit.

**MUS 354 Music Performance: Voice: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 355A Music Performance: Piano: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 355B Music Performance: Organ: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 356A Music Performance: Trumpet:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 356B Music Performance: Horn: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 356C Music Performance: Trombone:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 356D Music Performance: Euphonium:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 356E Music Performance: Tuba: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 357A Music Performance: Flute: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 357B Music Performance: Oboe: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 357C Music Performance: Clarinet:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 357D Music Performance: Bassoon:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 357E Music Performance: Saxophone:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 358A Music Performance: Violin: Level 3 (1-3)**

Individual instruction and master classes. May be repeated for credit.

**MUS 358B Music Performance: Viola: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 358C Music Performance: Cello: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 358D Music Performance: Bass: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 358E Music Performance: Acoustic Guitar:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 358F Music Performance: Electric Guitar:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 359 Music Performance: Percussion:****Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual instruction and master classes. May be repeated for credit.

**MUS 364 Film and Video Music (3)****Fall:** All Years

Fundamental concepts for work with music and visual media. Addresses the study of music with visual segments, both long and short form.

**MUS 365 Practicum (1)****Fall:** All Years **Spring:** All Years

An on-campus experience related to projects in the music industry seminars. May be repeated two times for credit. **Prerequisite:** MUS 261, MUS 262

**MUS 370 Composition: Level 3 (1-3)****Fall:** All Years **Spring:** All Years

Individual composition instruction plus seminar with all composition students. Study includes composition in several musical styles. May be repeated for credit.

**MUS 375 Band Conducting (2)****Spring:** All Years

Band conducting techniques, rehearsal methods, and score reading. **Prerequisite:** MUS 300

**MUS 376 Orchestral Conducting (2)****Spring:** Demand

Orchestra conducting techniques, rehearsal methods, and score reading. **Prerequisite:** MUS 300

**MUS 377 Choral Conducting (2)****Spring:** All Years

Choral conducting techniques, rehearsal methods, and score reading, brief survey of literature and introduction to choral arranging. **Prerequisite:** MUS 300

**MUS 381 Electronic Music (3)****Fall:** All Years

Equipment and techniques of electronic music, including multi-track recording techniques, use of signal processing devices, sound reinforcement, acoustics, and MIDI techniques. The history of electronic music will be included. **Prerequisite:** MUS 104

**MUS 390 Music Topics (1-3)****Fall:** All Years **Spring:** All Years

Special upper division studies in music. Different topics will be chosen for study. May be repeated if topic changes.

**MUS 423 Accompanying (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of both instrumental and vocal accompaniment repertoire. May be repeated for credit.

**MUS 424 Chamber Music Performance: Voice (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of chamber music (1 person per part). May be repeated for credit.

**MUS 425 Chamber Music Performance: Keyboard (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of chamber music (1 person per part). May be repeated for credit.

**MUS 426 Chamber Music Performance: Brass (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of chamber music (1 person per part). May be repeated for credit.

**MUS 427 Chamber Music Performance: Woodwinds (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of chamber music (1 person per part). May be repeated for credit.

**MUS 428 Chamber Music Performance: Strings (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of chamber music (1 person per part). May be repeated for credit.

**MUS 429 Chamber Music Performance: Percussion (1)****Fall:** All Years **Spring:** All Years

Preparation and performance of chamber music (1 person per part). May be repeated for credit.

**MUS 431A Keyboard Pedagogy I (2)****Fall:** Even Years

Fundamentals of keyboard instruction including methods, techniques, and procedures for establishing a private studio.

**MUS 431B Keyboard Pedagogy II (1)****Spring:** Even Years

Practical application of teaching techniques, skills, and procedures studied in Mus 431A.

**Prerequisite:** MUS 431A**MUS 432 Voice Pedagogy (2)****Fall:** Odd Years

Will include physiology, anatomy, teaching techniques, demonstration models and a practicum. Will focus on social, educational, family and peer pressure that affect the singing standards of the adolescent interested in pursuing vocal performance skills.

**MUS 433 Jazz Pedagogy (2)****Spring:** Odd Years

This course will focus on techniques for directing instrumental and vocal jazz ensembles and techniques for teaching the various jazz disciplines. The course will review major jazz texts, periodicals, historical recordings, and resources. **Prerequisite:** MUS 250, MUS 300

**MUS 440 Music Literature: Solo Song (2)****Spring:** Even Years

Study of solo song literature. Intended for majors and minors in music.

**MUS 441 Music Literature: Orchestral (2)****Spring:** Even Years

Study of orchestral literature. Intended for majors and minors in music.

**MUS 442 Music Literature: Choral (2)****Fall:** Even Years

Study of choral literature. Intended for majors and minors in music.

**MUS 443 Music Literature: Chamber Music (2)****Fall:** Even Years

Study of chamber music literature. Intended for majors and minors in music.

**MUS 444 Music Literature: Keyboard (2)****Fall:** Odd Years

Study of keyboard literature. Intended for majors and minors in music.

**MUS 445 Music Literature: Wind Band (2)****Fall:** Odd Years

Study of wind band literature. Intended for majors and minors in music.

**MUS 446 Music Literature: Opera (2)****Spring:** Odd Years

Study of opera literature. Intended for majors and minors in music.

**MUS 450 Student Recital (1)****Fall:** All Years **Spring:** All Years

Special supplemental applied study in preparation for public recital appearance. May be repeated once for credit.

**MUS 454 Music Performance Voice: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 455A Music Performance Piano: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 455B Music Performance Organ: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 456A Music Performance Trumpet:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 456B Music Performance Horn: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 456C Music Performance Trombone:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 456D Music Performance Euphonium:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 456E Music Performance Tuba: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 457A Music Performance Flute: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 457B Music Performance Oboe: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 457C Music Performance Clarinet:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 457D Music Performance Bassoon:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 457E Music Performance Saxophone:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 458A Music Performance Violin: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 458B Music Performance Viola: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 458C Music Performance Cello: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 458D Music Performance Bass: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 458E Music Performance Acoustic Guitar:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 458F Music Performance Electric Guitar:****Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.



**MUS 459 Music Performance Percussion:  
Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual instruction and master classes. May be repeated for credit.

**MUS 461 Senior Seminar: Current Issues in the  
Music Industry (2)****Spring:** All Years

Seminar covering broad range of current topics related to the music business: professional practices and ethics, legal issues, trends in marketing and management, etc., plus a thorough examination of relevant information resources - books, journals, and periodicals.

**MUS 469 Internship (3-12)****Fall:** All Years **Spring:** All YearsInternship in music-related field. **Prerequisite:** MUS 302**MUS 470 Composition: Level 4 (1-3)****Fall:** Demand **Spring:** Demand

Individual composition instruction plus seminar with all composition students. Study includes composition in several musical styles. May be repeated for credit.

**MUS 471 Orchestration (2)****Fall:** Odd YearsPrinciples of orchestral writing. **Prerequisite:** MUS 202, MUS 203**MUS 472 Instrumental Arranging (2)****Fall:** Demand

Arranging for both small and large ensembles.

**Prerequisite:** MUS 202**MUS 474 Advanced Theory and Analysis (2)****Spring:** Odd YearsContinuation of the study of music through the use of advanced theoretical and analytical techniques. May be repeated for credit. **Prerequisite:** MUS 203, MUS 302**MUS 475 Advanced Conducting (2)****Fall:** Demand

Continuation of the study of conducting.

**Prerequisite:** MUS 376 OR MUS 375 OR MUS 377**MUS 481 Audio Production (2)****Spring:** All Years

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

**Prerequisite:** MUS 381**MUS 482 Music Synthesis (2)****Fall:** All YearsEquipment and techniques of electronic music synthesis, including modular and integrated systems, analog and digital synthesis, MIDI and electronic audio effects. **Prerequisite:** MUS 381**MUS 484 Projects in Sound Reinforcement and  
Concert Recording (1-2)****Spring:** All Years

Individual projects centered on learning sound reinforcement and concert recording for all types of concert situations. Most of the class will involve hands on work for departmental music productions. Class participants will learn Tonmeister recording techniques and sound reinforcement while using our department's various sound reinforcement systems. Students must be prepared to work at night and off-campus for MSU Music Department events. May be repeated for credit.

**Prerequisite:** MUS 481**MUS 485 Projects in Audio Production (1-2)****Fall:** All Years **Spring:** All YearsIndividual projects in Audio Production. May be repeated for credit. **Prerequisite:** MUS 481**MUS 486 Projects in Synthesis (1-2)****Fall:** All Years **Spring:** All YearsIndividual projects in music synthesis. May be repeated for credit. **Prerequisite:** MUS 482**MUS 496 Workshop in Music Education (1-3)****Fall:** Demand **Spring:** Demand

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

**Nursing****NURS 305 The Contemporary Professional Nurse (3)****Fall:** All Years **Spring:** All Years

Focus on transition from technical to professional nursing. Increased self-awareness, and advanced communication skills, using experiential activities and discussion. Available to admitted majors only.

**NURS 315 Client Education in Nursing (2)****Fall:** All Years

Principles of client education and selected teaching-learning strategies as applied to real and simulated client education situations.

**NURS 318 Ethics in Nursing (2)****Fall:** All Years

Ethical theory and decision making in nursing practice.

**NURS 325 Holistic Client Systems (3)****Fall:** All Years **Spring:** All Years

This course examines the "client" of nursing at the family, group, community and population level. A holistic systems approach is utilized which emphasizes the family or community as client rather than as context for nursing and/or health care. Assessment and analysis of client health care issues will direct planning for health promotion, health protection and disease prevention. Available to admitted majors only.

**NURS 346 Community Based Nursing (3)****Spring:** All Years

Establishes the conceptual foundations for practice in "Community Based Nursing" at the BSN level. Community Based Nursing is interpreted as the broader term encompassing multiple nursing practices located within the community. The focus is providing care to "communities", populations or the "public", rather than the location or setting of the service. Application is made through student-selected projects involving portfolios and a presentation. **Prerequisite:** NURS 305, NURS 318, NURS 325, NURS 315, NURS 350 **OR** consent of instructor

**NURS 346L Community Based Nursing Clinical (3)****Spring:** All Years

Application of the nursing process in community-based nursing practice including public health nursing experiences. Application of all levels of prevention within the community; serving the individual, family and community as client for care. **Prerequisite:** NURS 346 **OR** concurrent with NURS 346

**NURS 350 Advanced Pathophysiology (3)****Spring:** All Years

Correlation of pathophysiology with signs and symptoms of body dysfunction; analysis of selected adaptive mechanisms which maintain homeostasis.

**NURS 362 Transcultural Nursing (2)****Spring:** All Years

Application of the nursing process with culturally diverse clients.

**NURS 403 Sexuality: A Nursing Perspective (2)****Fall:** Demand

A holistic approach which focuses on fostering healthy sexuality in illness and wellness through effective nursing practice.

**NURS 405 Dynamics of Oncology Nursing (2)****Fall:** Demand

Pathophysiology of cancer and disease complications, detection, treatment, and prevention. Emphasizes holistic health care of person with cancer and explores effect on the nation's health.

**NURS 407 Nursing Care of the Person with HIV/AIDS (2)****Fall:** Demand

World and local epidemiology, pathophysiology of human immunodeficiency virus (HIV) and opportunistic infections, treatment and care of people with HIV infection and acquired immune deficiency syndrome (AIDS). Included infection control, ethical issues and public education needs.

**NURS 409 Adaptation to Chronic Illness (2)****Fall:** Demand

Uses a systems approach to study how individuals and families adapt to chronic illness. Focuses on the nursing roles and strategies that assist individuals and families to adapt to chronic illness. Social policies, programs, and services are identified.

**NURS 411 Women, Nursing, and Health (2)****Fall:** Demand

A nursing perspective of women's health as affected by reproductive, self concept, lifestyle, mental health and violence issues. Consideration of effectiveness of medical and holistic therapies on women's health outcomes.

**NURS 413 Nursing and Health Promotion in Special Populations (2)****Fall:** Demand

Health promotion and lifestyle change concepts and strategies are discussed and applied in a nursing framework. Special populations are described and health promotion strategies are adapted for use with these populations.

**NURS 415 The Changing Family: A Nursing Perspective (2)****Fall:** Demand

A study of contemporary changes in the family, primarily in relation to family structure and employment patterns. Major focus on nursing assessment and interventions needed to respond to these changes, within a system's framework. Topics include structural changes such as divorce, blended families, single parent families, and changing employment patterns such as the dramatic increase in "working women."

**NURS 417 Holistic Nursing (2)****Fall:** Demand **Spring:** Demand

Analysis of the concept of the nurse as healer and the practice of holistic nursing. A variety of currently available holistic therapies such as therapeutic touch, guided imagery, acupressure and music therapy are examined for legitimacy and effectiveness.

**NURS 420 Gerontological Nursing (2)****Fall:** All Years

Nursing management of elderly clients and their families. Focuses on normal aging; common health problems; and ethical and sociopolitical issues in health care of their elderly.

**NURS 430 Research in Nursing (3)****Spring:** All Years

Introduction to nursing research process and its application in nursing practice. Major focus on critique and utilization of nursing and other research. Theories and function of management and leadership styles as they relate to professional nursing.

**Prerequisite:** NURS 305, NURS 318, NURS 325 **OR** consent of instructor

**NURS 460L Nursing Management/Leadership Laboratory (1)****Fall:** All Years

Application of management theories and functions to nursing roles in health care settings.

**NURS 475 Nursing Preceptorship (6)****Spring:** All Years

Application of curricular themes in a comprehensive clinical exploration of a self-selected area of nursing practice. Analysis and discussion of current issues and trends in health care that influence professional nursing. All required courses in the nursing major must be taken prior to this course, except that NURS 460 and NURS 460L may be taken concurrently.

**NURS 490 Topics in Professional Nursing (1-3)****Fall:** Demand

Study of selected practices, issues and/or problems in health care delivery as they impact the consumer and the nursing profession. Topics change each semester.

**NURS 497 Independent Study (1-2)****Fall:** Demand

Individual intensive study, clinical project or research activity of a nursing issue under guidance of a faculty member. Extends intellectual pursuit beyond regular curriculum. Only two credits may be applied toward the elective nursing requirement.

**PARA 320 Domestic Relations (3)****Spring:** All Years

The law of domestic relations, including marriage, separation, divorce, annulment, adoption, custody, and other topics. **Prerequisite:** PARA 250

**PARA 325 Interviewing (3)****Fall:** All Years **Spring:** All Years

Development of the skills necessary to elicit comprehensive factual information about legal issues and to assist the client in understanding the process and procedures of the legal system.

**Prerequisite:** PARA 250**PARA 331 Debtor-Creditor and Bankruptcy Law (4)****Fall:** All Years

The study of law relating to the extension of credit, collection of debts, debtors' and creditors' rights, and bankruptcy, including liquidation, business reorganizations, and adjustment of debts.

**Prerequisite:** PARA 250**PARA 340 Evidence (3)****Fall:** All Years

A study of the substantive and procedural law of evidence in civil and criminal litigation.

**Prerequisite:** PARA 251**PARA 345 Public Benefits I (4)****Fall:** All Years

An overview of public benefits programs providing economic maintenance and financing of health care. A study of the substantive and procedural law of government entitlement programs, including food stamps, Aid to Families with Dependent Children, general assistance, energy assistance, medical assistance, Medicare, and subsidized housing.

**Prerequisite:** PARA 250**PARA 346 Public Benefits II (4)****Spring:** All Years

A study of the substantive and procedural law of government benefit programs, including Supplemental Security Income, workers compensation, unemployment compensation, and Social Security Retirement and Disability insurance. **Prerequisite:** PARA 250

**PARA 360 Law Office Systems (3)****Fall:** All Years **Spring:** All Years

An introduction to the unique characteristics of law office organization and management with an emphasis on computer applications in the law, including computerized time records and billing, docket control and file management, pleading organization, document preparation, and other computer uses. Enrollment in this course requires completion of, or concurrent enrollment in, PARA 125. **Prerequisite:** PARA 125, CSIS 103

**Paralegal****PARA 125 Introduction to Paralegal (2)****Fall:** All Years **Spring:** All Years

Provides an overview of the paralegal profession and the legal system to assist students in their career decision making process.

**PARA 250 Legal Research and Writing I (3)****Fall:** All Years

A general introduction to recorded sources of the law and where and how it is to be found. Specific sources will be discussed and facilitated through practical writing exercises. Enrollment in this course requires the completion of, or concurrent enrollment, in PARA 125.

**Prerequisite:** PARA 125**PARA 251 Legal Research and Writing II (3)****Spring:** All Years

Continuation of Legal Research and Writing sequence. Students will develop skills in legal issue identification, analysis and research through progressively more complex exercises, including preparation of legal memoranda. **Prerequisite:** PARA 250

**PARA 310 Civil Procedure (3)****Fall:** All Years

The substantive and procedural law of civil litigation, with emphasis on the Rules of Civil Procedure, in both state and federal court systems.

**Prerequisite:** PARA 250

**PARA 375 Legal Ethics (3)****Spring:** All Years

The study of law governing the professional ethics of attorneys with emphasis on the Rules of Professional Conduct and their implications for paralegals.

**Prerequisite:** PARA 250**PARA 380 Real Property Law (4)****Fall:** All Years

The law dealing with interests in, ownership and leasing of, and title to real estate. Emphasis is also placed on official descriptions, systems for recording, and procedures and documents used for the sale or transfer, lease, and zoning of real property.

**Prerequisite:** PARA 250**PARA 405 Estate Planning and Probate Methods (3)****Spring:** All Years

A study of the procedures, documents and other techniques used in the planning for transfer of property after death, administration of estates and the preparation of federal and state gift, estate and income tax returns. **Prerequisite:** PARA 250, PARA 446

**PARA 410 Litigation Methods (3)****Spring:** All Years

A study of the procedures, documents and other techniques used in a legal setting emphasizing trial practice. Topics included will be case intake, discovery, negotiations, trial preparation, trial practice and post judgment relief. **Prerequisite:** PARA 250, 310

**PARA 415 Public Law Methods (3)****Spring:** All Years

A study of the procedures, documents and other techniques used in a legal aid or poverty law setting, including client intake, eligibility determinations and routine case handling. **Prerequisite:** PARA 250, 345

**PARA 425 Advanced Legal Research and Writing (3)****Fall:** All Years **Spring:** All Years

Integration and application of methods and techniques of legal research and writing, building on and supplementing skills acquired in PARA 250 and 251. Preparation of complex legal memoranda and briefs.

**Prerequisite:** PARA 251, PARA 325, PARA 360, PARA 375**PARA 430 Administrative Advocacy (3)****Spring:** All Years

Techniques and procedural rules involved in the non-lawyer representation of clients before administrative hearing bodies.

**Prerequisite:** PARA 250 and PARA 346 OR PARA 345**PARA 435 Personal Injury (3)****Spring:** All Years

A study of the procedural and substantive law of personal injury, including negligence, products liability, strict liability, and insurance.

**Prerequisite:** PARA 250, PARA 310**PARA 446 Estate, Gift and Trust Taxation (3)****Fall:** All Years

Federal estate and gift tax; income taxation of estates and trusts; fundamentals of estate planning.

**Prerequisite:** PARA 250**PARA 469 Internship (4)****Fall:** All Years **Spring:** All Years

Internship experience under supervision of an attorney as approved by program internship coordinator.

**Prerequisite:** PARA 251, PARA 325, PARA 360, PARA 375, and at least one Methods Course.**PARA 497 Problems in Law (1)****Fall:** Demand **Spring:** Demand

Individual research or study under supervision of program director or other approved faculty.

**Personal Development****PDEV 101 Assertiveness Training (1)****Fall:** All Years **Spring:** All Years

Designed to enable students to learn their interpersonal rights and responsibilities, to discriminate between assertive, aggressive and submissive behavior and to acquire a set of assertive skills that, by definition, maintain the dignity of the parties involved.

**PDEV 103 Career Development and Career/Life Planning (1)****Fall:** All Years **Spring:** All Years

Enables students to learn more about self and the world of work, and to develop career decision-making skills.

**PDEV 108 Stress Management (1)**

Study of the causes and effects of stress plus a survey of specific skills for reducing or preventing effects. Application for university students will be emphasized.

**PDEV 111 College Academic Success Strategies (1)**

Both beginning and already established students will learn successful methods to take better notes, combat test anxiety, improve memory, and read more efficiently in this course that increases self confidence as it betters study techniques.

**PDEV 190 Special Topics in Personal Development (1-3)****Fall:** All Years **Spring:** All Years

Selected topics in personal development. Designed to address a variety of needs related to interpersonal relationships and communication. Course may be repeated since subject matter changes.

## Philosophy

### PHIL 101 [D1] Introduction to Western Philosophy (3)

**Fall:** All Years **Spring:** All Years

An introduction to Western philosophical thinking and methods through an examination of selected figures and movements from the history of the discipline.

### PHIL 105 [D] Philosophical Thinking (4)

**Fall:** All Years

This course stresses critical reflection about selected philosophical topics from such areas as religion, society, human nature, morality, and knowledge. Major emphasis on development of skills in philosophical writing.

### PHIL 110 [E] Practical Reasoning (3)

**Fall:** All Years **Spring:** All Years

An introduction to critical thinking, with emphasis on understanding the logic of everyday arguments, interpreting the arguments of others, detecting fallacies, and constructing good arguments.

### PHIL115 [D] Contemporary Moral Issues (3)

**Fall:** All Years **Spring:** All Years

Application of ethical theories to contemporary moral issues, such as world hunger, punishment, sexual equality, sexual behavior, abortion, the environment, corporate responsibility, and war.

### PHIL 120 [F] World Religions (3)

**Fall:** Demand **Spring:** Demand

Study of beliefs and practices of major religions of the world.

### PHIL 220 [D1] Philosophy of Education (3)

**Fall:** Demand **Spring:** Demand

Historical and critical study of major theories of education, emphasizing competing ideas about the nature, value, and goals of education. Recommended for students planning careers in education.

### PHIL 290 Special Topics in Philosophy (1-3)

**Fall:** Demand **Spring:** Demand

Topics will be announced in class schedule. Students may register more than once when content varies.

### PHIL 300 [D1] History of Ethics (4)

**Fall:** Demand **Spring:** Demand

A history of ethical and political theory in Western philosophy. The course will study the works of such philosophers as Plato, Aristotle, Augustine, Locke, Hobbes, Kant, Bentham, and Mill.

**Prerequisite:** PHIL 101 OR PHIL 105, OR PHIL 115

### PHIL 301 [D] Philosophy of Religion (3)

**Fall:** Demand **Spring:** Demand

An examination of religions from a philosophical standpoint. The course will discuss such issues as the existence and nature of God, religious experience, and life after death. **Prerequisite:** PHIL 101 OR PHIL 105

### PHIL 303 [D1] Classical Philosophy (4)

**Fall:** All Years

A study of the development of ancient Greek and Roman philosophy, including the Presocratics, Socrates, Plato, Aristotle and such movements as Stoicism, Epicureanism, and Skepticism.

### PHIL 304 Medieval Philosophy (3)

**Spring:** Odd Years

Study of Western philosophy during the medieval period. The course will typically include study of such philosophers as Augustine, Anselm, and Aquinas.

**Prerequisite:** PHIL 303

### PHIL 305 Modern Philosophy: 17th Century (2)

**Spring:** All Years

Study of Western philosophy in the 17th century, focusing on the metaphysical and epistemological writings of Descartes and Locke.

**Prerequisite:** PHIL 101 OR PHIL 105 OR PHIL 303

### PHIL 306 Modern Philosophy: 18th Century (2)

**Spring:** All Years

Study of Western Philosophy in the 18th century, focusing on the metaphysical and epistemological writings of Hume and Kant. **Prerequisite:** PHIL 305

### PHIL 307 19th Century Philosophy (3)

**Fall:** Even Years

Study of selected major philosophers of the 19th century, such as Hegel, Marx, Kierkegaard, Nietzsche, Schopenhauer and Mill. **Prerequisite:** PHIL 101 OR PHIL 105 OR PHIL 303

### PHIL 311 [D] Morals and Medicine (3)

**Fall:** Demand **Spring:** Demand

A consideration of some moral problems that arise in medicine such as truth-telling, experimentation, paternalism, abortion, euthanasia, allocation of sparse resources and health care systems.

### PHIL 314 [D] Introduction to Feminist Theory (3)

**Fall:** Demand **Spring:** Demand

Critical examination of various feminist theories, both historical and contemporary, and of various definitions of sexism. Students will also examine how feminist theory can be applied to various contemporary moral and social issues. Theorists studied may include Mill, de Beauvoir, Frye, and Jagger. Representative contemporary issues may include women's reproductive rights, prostitution, sexual harassment laws, and marriage and family issues.

### PHIL 320 [D] Philosophy of the Arts (3)

**Fall:** Demand **Spring:** Demand

A consideration of philosophical questions relating to the fine arts. Representative topics include the nature of art, aesthetic experience, criticism in the arts, representation, symbolism, and evaluation. (Same as Art 320.) **Prerequisite:** PHIL 101 OR PHIL 105

**PHIL 340 [E] Symbolic Logic (3)****Fall:** Demand **Spring:** Demand

A survey of deductive logic, emphasizing the use of symbolism to interpret and evaluate arguments. Includes propositional and predicate logic.

**PHIL 355 [D] Existentialism (3)****Spring:** Even Years

An examination of writings—both philosophical and literary— of representative existentialists, such as Nietzsche, Kierkegaard, Dostoevsky, Heidegger, Sartre, and Camus. **Prerequisite:** PHIL 101 OR PHIL 105 OR PHIL 303

**PHIL 365 [D] Philosophy of Science (3)****Fall:** Odd Years

An examination of traditional and contemporary views of science, emphasizing the nature of scientific inquiry and the relationship between observation and theory. Includes discussion of science as an objective picture of reality, the difference between science and pseudo-science, and the idea of “progress” in science.

**Prerequisite:** PHIL 101 OR PHIL 105**PHIL 372 [F1] Dynamics of Prejudice and Oppression (4)**

An examination of philosophical dimensions, dynamics and consequences of prejudices and oppression based on race, class, gender, sexual orientation and ability. Students expected to recognize, critically analyze, and identify both shared and unique structural dimensions of various forms of oppression and discuss potential strategies for dismantling oppression. No more than two credits can be applied to the philosophy major.

**PHIL 390 Special Topics in Philosophy (1-4)****Fall:** Demand **Spring:** Demand

Topics will be announced in semester class schedules. Students may repeat course when content varies.

**PHIL 490 Topics in Philosophy (1-3)****Fall:** Demand **Spring:** Demand

Study of a selected philosophical problem or philosophical movement. Students may register more than once when topic varies. Specific topics will be announced in class schedules.

**PHIL 492 Major Philosophers (1-3)****Fall:** Demand **Spring:** Demand

Intensive study of some important figure in the history of philosophy. Students may register more than once when content varies.

**PHIL 495 Topics in Feminist Theory (3)****Fall:** Demand **Spring:** Demand

Courses offered under this title will focus on feminist theories as frameworks for work on feminist issues. For specific topic see class schedule. Topics may include Knowledge, Ethics, Ecology, Reproductive Rights and Issues, Self-images and Identity, and Sexuality. Students may register more than once when content varies, but may not repeat the course for more than 6 credits. **Prerequisite:** PHIL 101 OR PHIL 105 OR PHIL 314

**PHIL 497 Independent Study (1-3)****Fall:** Demand **Spring:** Demand

Intensive independent study of a philosophical problem, major philosopher, or philosophical movement, under the direction and supervision of one or more members of the department. May be repeated to a maximum of 6 credits. No more than 3 credits may be used to fulfill the major requirements.

**PHIL 498 Senior Portfolio (1)****Fall:** Demand **Spring:** Demand

As a capstone requirement for the major, students will submit a portfolio containing (1) four or five papers they have written for philosophy courses; (2) a philosophical self-assessment. See Department Chair for details.

## Physical Education

**PE 100 Aerobic Dance (1)****Fall:** All Years **Spring:** All Years

This course provides instruction in the principles of aerobic exercise and requires participation in daily aerobic dance routines designed to develop aerobic fitness and rhythmic skills.

**PE 102 Weight Training I (1)****Fall:** All Years **Spring:** All Years

This course is designed for students who have limited weight training experience. Weight training principles, exercises, terminology, safety and etiquette are presented and students participate in a weight training program.

**PE 103 Weight Training II (1)****Fall:** All Years **Spring:** All Years

This course builds on the basic weight training principles introduced in PE 102. Advanced weight training programs and systems are covered and implemented.

**PE 104 Exercise and Body Development (1)****Fall:** Demand **Spring:** Demand

This course is designed to teach the knowledge, activities, and skills necessary to develop a comprehensive physical fitness program focusing on flexibility, strength and aerobic development.

**PE 105 Jogging (1)****Spring:** All Years

Season-long participation in an intercollegiate sport. Must be taken prior to PE 107. May not be repeated for credit.

**PE 106 Personalized Physical Education (1)****Fall:** Demand **Spring:** Demand

This course is designed for students who have an existing condition which precludes participation in a regular physical education class. It is customized by the Instructor to meet the particular physical education needs of the student.

**PE 107 Personal Defense (1)****Fall:** All Years **Spring:** All Years

This course provides instruction in recognizing, avoiding, and responding to threats to personal safety. Personal defense terminology and multiple personal defense techniques involving physical contact and falling are emphasized. **Prerequisite:** PE 105

**PE 108 Racquetball (1)****Fall:** All Years **Spring:** All Years

This course is designed for the beginning racquetball player and provides instruction in basic skills, terminology, rules and strategies.

**PE 110 Skiing (1)****Spring:** All Years

This course is designed for the beginning downhill skier. Students receive instruction in the terminology, equipment, etiquette, safety and basic skills of downhill skiing.

**PE 112 Bowling (1)****Fall:** All Years **Spring:** All Years

This course is designed for the beginning bowler. Students receive instruction in the basic skills of bowling, terminology, rules, strategy and score keeping.

**PE 114 Golf (1)****Spring:** All Years

This course is designed to improve the beginning golfer's skills and knowledge of rules, terminology, equipment, etiquette and strategy in golf.

**PE 116 Tennis I (1)****Fall:** All Years **Spring:** All Years

This course is designed for the beginning tennis player. It focuses on developing ground strokes, the serve, and understanding of tennis terminology, rules, etiquette and basic singles and doubles strategies.

**PE 117 Tennis II (1)****Fall:** All Years **Spring:** All Years

This course is designed for intermediate tennis players who have dependable ground strokes and consistent first and second serves. The course focuses on improving basic strokes, developing advanced strokes, and advanced singles and doubles strategies.

**PE 118 Handball (1)****Fall:** Demand **Spring:** Demand

This course is designed for beginning handball players. Students learn the basic skills, terminology, etiquettes and rules of handball.

**PE 120 Tae Kwon Do I (1)****Fall:** All Years **Spring:** All Years

Tae Kwon Do is a 2,000 year old, Korean style of martial arts. Students are introduced to the various kicks, blocks, combinations, one steps, and self defense techniques that make Tae Kwon Do the most popular form of self defense in the world.

**PE 121 Tae Kwon Do II (1)****Fall:** All Years **Spring:** All Years

Tae Kwon Do II continues the student's studies into the Korean Martial Art of Tae Kwon Do. During the course of this class, students will be introduced to more advanced techniques ranging from kicks and striking to tournament techniques and experiences.

**Prerequisites:** PE 120 or consent of instructor.

**PE 122 Archery (1)****Fall:** Demand **Spring:** Demand

This course is designed to develop basic archery skills and an overall appreciation of the sport. Terminology, safety procedures, equipment and types of archery competition are covered.

**PE 124 Badminton (1)****Fall:** All Years **Spring:** All Years

This course is designed for the beginning badminton player. Instruction focuses on basic skills, strategies, and rules used in singles and doubles play.

**PE 130 Volleyball I (1)****Fall:** All Years

This course is designed for students who have limited volleyball experience. Instruction and practice focuses on the pass, overhead pass, serve, spike, rules, terminology and basic offensive and defensive match play.

**PE 131 Volleyball II (1)****Fall:** All Years

This course is designed for the students who are proficient in fundamental volleyball skills. Emphasis is placed on multiple offenses and advanced defensive strategies. **Prerequisites:** PE 130 or consent of instructor

**PE 132 Basketball (1)****Fall:** Demand **Spring:** Demand

This course is designed for the beginning basketball player. Students learn the fundamentals of basketball including passing, shooting, dribbling, rebounding, defense and strategy.

**PE 133 Softball (1)****Fall:** Demand **Spring:** Demand

This course is designed to develop softball skills appropriate for the recreational player. Hitting, fielding, pitching, rules and basic strategy are covered.

**PE 134 Soccer (1)****Fall:** All Years

This course is designed to provide instruction, practice, and performance opportunities in the basic soccer skills and techniques. Rules, responsibilities of players, team play, strategies are also covered.

**PE 140 American Round and Square Dancing (1)****Fall:** Demand

This course provides instruction and practice in the basic movements of square dance as outlined by the Sets in Order American Square Dance Society.

**PE 141 Folk Dance (1)****Spring:** Demand

Students learn basic folk dance movement patterns including the two step, schottische, walk, polka and grapevine as they are used in a variety of dances from different cultures.

**PE 142 Country Western Dance (1)****Spring:** All Years

This course is designed to provide students with the knowledge and skills of basic country western dance. Dances will range from a wide historical perspective, progressing to the modern dances of today.

**PE 144 Ballroom Dance (1)****Fall:** All Years**PE 146 Jazz Dance (1)****Fall:** Demand**PE 147 Ballet Dance (1)****Spring:** Demand**PE 148 Tap Dance (1)****Fall:** Demand**PE 149 Modern Dance (1)****Spring:** Demand**PE 160 Swimming I (1)****Fall:** All Years **Spring:** All Years

This course is designed for the student to learn basic water safety skills and knowledge in order to make him/her safe in the aquatic environment.

**PE 161 Swimming II (1)****Fall:** All Years **Spring:** All Years

This course is designed to improve the aquatic skills of the student by adding to skills learned in the beginning course and improving coordination and stamina.

**PE 180 Junior Varsity Athletics (1)****Fall:** All Years **Spring:** All Years

Season-long participation in an intercollegiate sport.

Must be taken prior to PE 181. May not be repeated for credit. **Prerequisite:** Consent of athletic coach.

**PE 180A Junior Varsity Cross Country: Men (1)****Fall:** All Years**PE 180B Junior Varsity Cross Country: Women (1)****Fall:** All Years**PE 180D Junior Varsity Basketball: Men (1)****Fall:** All Years **Spring:** All Years**PE 180E Junior Varsity Basketball: Women (1)****Fall:** All Years **Spring:** All Years**PE 180I Junior Varsity Golf: Women (1)****Spring:** All Years**PE 180L Junior Varsity Tennis: Women (1)****Spring:** All Years**PE 180M Junior Varsity Track: Men (1)****Fall:** All Years **Spring:** All Years**PE 180N Junior Varsity Track: Women (1)****Fall:** All Years **Spring:** All Years**PE 180O Junior Varsity Softball (1)****Spring:** All Years**PE 180P Junior Varsity Volleyball (1)****Fall:** All Years**PE 180Q Junior Varsity Wrestling (1)****Fall:** All Years **Spring:** All Years**PE 180R Junior Varsity Football (1)****Fall:** All Years**PE 180S Junior Varsity Soccer (1)****Fall:** All Years **Spring:** All Years**PE 180T Junior Varsity Swimming (1)****Fall:** All Years **Spring:** All Years**PE 181 Varsity Athletics (1)****Fall:** All Years **Spring:** All Years

Season-long participation in an intercollegiate sport. May not be repeated for credit.

**PE 181A Varsity Cross Country: Men (1)****Fall:** All Years **Prerequisite:** PE 180A**PE 181B Varsity Cross Country: Women (1)****Fall:** All Years**Prerequisite:** PE 180B**PE 181D Varsity Basketball: Men (1)****Fall:** All Years **Spring:** All Years**Prerequisite:** PE 180D**PE 181E Varsity Basketball: Women (1)****Fall:** All Years **Spring:** All Years**Prerequisite:** PE 180E**PE 181I Varsity Golf: Women (1)****Spring:** All Years**Prerequisite:** PE 180I



**PE 181L Varsity Tennis: Women (1)****Spring:** All Years**Prerequisite:** PE 180L**PE 181M Varsity Track: Men (1)****Fall:** All Years **Spring:** All Years**Prerequisite:** PE 180M**PE 181N Varsity Track: Women (1)****Fall:** All Years **Spring:** All Years**Prerequisite:** PE 180N**PE 181O Varsity Softball (1)****Spring:** All Years**Prerequisite:** PE 180O**PE 181P Varsity Volleyball (1)****Fall:** All Years**Prerequisite:** PE 180P**PE 181Q Varsity Wrestling (1)****Fall:** All Years **Spring:** All Years**Prerequisite:** PE 180Q**PE 181R Varsity Football (1)****Fall:** All Years**Prerequisite:** PE 180R**PE 181S Varsity Soccer (1)****Fall:** All Years **Spring:** All Years**PE 181T Varsity Swimming (1)****Fall:** All Years **Spring:** All Years**PE 182 Varsity Weight Training (1)****Fall:** All Years **Spring:** All Years**PE 183 Heritage Dance I (1)****Fall:** All Years **Spring:** All Years**PE 184 Heritage Dance II (1)****Fall:** All Years **Spring:** All Years**PE 190 Topics in Fundamental Activities (1-4)****Fall:** Demand **Spring:** Demand

This is a topical course in fundamental activities. The course may be repeated if content varies.

**PE 191 Activities: Dance (2)****Spring:** All Years

Designed for physical education majors, this course develops skills and knowledge in folk, square, and ballroom dance.

**PE 192 Activities: Gymnastics (1)****Spring:** All Years

Designed for physical education majors, this course develops skills and knowledge of rules, terminology, and strategies in gymnastics.

**PE 193 Activities Course: Elementary School (2)****Fall:** All Years

Designed for physical education majors, this course introduces the student to the elementary school curriculum.

**PE194 Activities Course: Non-Traditional (1)****Fall:** All Years

Designed for physical education majors, this course develops skills and knowledge of rules, strategies, and terminology in a variety of non-traditional activities.

**PE 200 Foundations of Physical Education (3)****Fall:** All Years

This course investigates the nature and scope of physical education including philosophy, objectives and the role of movement and fitness. It involves the application of historical and scientific foundations as they apply to physical education and sport and considers career and professional opportunities in physical education and sport.

**PE 211 Concepts of Physical Fitness (2)****Fall:** All Years **Spring:** All Years

Examines basic concepts and principles of physical fitness and evaluates personal fitness level. Designs a personal physical fitness program to meet individual needs.

**PE 222 Life Guard Training (2)****Fall:** Demand **Spring:** Demand

This course is designed to teach the student safety education in and around the aquatic environment and to teach basic rescue and resuscitation skills for emergency situations.

**PE 223 Water Safety Instructor's Course (2)****Spring:** All Years

American Red Cross certification.

**PE 240 Physical Education in the Elementary School (2)****Spring:** All Years

Games, rhythms and other activities recommended for the physical education program in the elementary school.

**PE 250 Officiating Football (2)****Fall:** All Years

This course introduces the student to the role and function of the state high school leagues and local officiating associations. The student will learn the high school code of football rules and demonstrate a knowledge of the mechanics of administering a high school football contest.

**PE 251 Officiating Basketball (2)****Spring:** All Years

This course familiarizes the student with state high school leagues and local official's associations. The student will learn the national federation basketball rules and will have on-the-court practical experience in learning the mechanics of administering a high school basketball game.

**PE 252 Officiating Volleyball (2)****Fall:** All Years

This course is designed to teach students the officials' roles in intercollegiate and interscholastic matches, and to provide an opportunity for students to develop appropriate skills and knowledge to assume officiating responsibilities.

**PE 290 Topics in Physical Education (1-4)****Fall:** Demand **Spring:** Demand

This is a topical course in Physical Education. The course may be repeated if content varies.

**PE 294 Women and Sport (3)****Fall:** Demand

A study of women and sport. Historical, sociological and psychological factors are examined. Legislation affecting participation, present status of women and sport, and future outlook are considered.

**PE 310 Sport and Play in the United States (3)****Fall:** All Years **Spring:** All Years

This course is an investigation of sport and play in American society. It involves the application of concepts from various disciplines to sport and play and the development of an understanding of the functions that sport and play serve in the United States.

**PE 311 Motor Learning (2)****Fall:** All Years **Spring:** All Years

A study of theoretical and practical knowledge of the individual, instructional and environmental variables relevant to teaching, learning and performing motor skills.

**PE 320 Anatomical Kinesiology (3)****Fall:** All Years **Spring:** All Years

A study of the applied human anatomy with a focus on the musculoskeletal systems. The student will learn basic skeletal structure, make-up and functional capabilities at the various joints, the role of the musculature in human movement and a systematic means of establishing a conditioning program.

**PE 321 Human Physiology (3)****Fall:** All Years **Spring:** All Years

This course is designed to develop an understanding of the many physiological systems of the human body. Laboratory experiences include the application of physiological principles to health-related fitness.

**PE 333 Pool and Waterfront Management (3)****Fall:** Demand **Spring:** Demand

This course is designed to provide students with the knowledge and skills necessary to administer, operate, maintain and design safe pool and waterfront programs. National Pool Operators Certification Test will be provided at the completion of the course.

**PE 350 Mechanical Principles of Sport (3)****Fall:** All Years **Spring:** All Years

A study of applied anatomy of the human musculoskeletal systems and the analysis of the mechanical principles applied to human motion. Credit not applicable to a Health or Physical Education major or minor.

**PE 351 Physiology of Sport (2)****Fall:** All Years **Spring:** All Years

Application of physiological principles to athletic performance and physical conditioning programs. Credit not applicable to a Health or Physical Education major or minor.

**PE 360 Elementary Methods in Physical Education (3)****Spring:** All Years

This course is designed to prepare students to teach physical education to children in grades K-6. Course content reflects the idea that teaching is goal directed and a skill that requires practice. Students are required to observe, participate, teach and evaluate elementary school physical education. **Prerequisite:** PE 194

**PE 361 Secondary Methods in Physical Education (3)****Fall:** All Years

This course is designed to prepare students to effectively teach physical education activities to student in grades 7-12. **Prerequisite:** PE 191, PE 192, PE 193

**PE 364 Teaching Aerobic Dance (3)****Spring:** All Years

This course provides the information and skills necessary to successfully teach floor aerobics, water aerobics and step aerobics.

**PE 365 Health and Fitness Instructor (3)****Spring:** All Years

This course prepares students to meet the competencies established by the American College of Sports Medicine for a health fitness instructor.

**PE 371 Coaching Football (3)****Fall:** All Years

This course is intended to help prepare student for coaching football up to high school. Emphasis is placed on students developing a philosophy concerning all aspects of coaching football.

**PE 372 Coaching Basketball (3)****Fall:** All Years

This course is designed for students to acquire the knowledge and skills necessary to successfully coach basketball at the junior and senior high school levels.

**PE 373 Coaching Baseball and Softball (3)****Spring:** All Years

This course is designed to teach the skills and knowledge necessary to coach baseball and softball at the youth and secondary school levels.

**PE 374 Coaching Track and Field (3)****Spring:** All Years

This course is designed to prepare students to effectively coach track and field to junior and senior high school students. It involves the application of strategies, placement of personnel and meet management. Students will learn about equipment, safety precautions and be able to perform basic track and field skills.

**PE 375 Coaching Wrestling (3)****Spring:** Demand

This course is designed to prepare students to coach wrestling at the junior and senior high school levels.

**PE 376 Coaching Golf and Tennis (3)****Fall:** Demand **Spring:** Demand

This course is designed to prepare the student to coach competitive tennis at the junior and senior high school levels.

**PE 378 Coaching Swimming and Diving (3)****Fall:** Demand **Spring:** Demand

This course is designed to teach the skills and knowledge necessary to coach swimming and diving. The course will also cover expectations of officiating score keeping for swimming meets.

**PE 379 Coaching Volleyball (3)****Fall:** Even Years

This course prepares students to effectively coach volleyball at the elementary or secondary school level. Students learn about season and practice management, principles of physical training, development and analysis of skills, offensive and defensive team play, game management and evaluative procedures.

**PE 384 Outdoor Leadership I (2)**

An introduction to essential components needed for successful outdoor leadership. Emphasis is on the development of competencies deemed necessary for responsible outdoor leadership.

**Prerequisite:** HLTH 125, REC 140**PE 390 Topics in Physical Education (1-4)****Fall:** Demand **Spring:** Demand

This is a topical course in Physical Education. The course may be repeated if content varies.

**PE 420 Biomechanics (3)****Fall:** All Years **Spring:** All Years

This course is designed to develop an understanding of the mechanical principles that govern the effectiveness with which physical education and sport skills are performed.

**PE 421 Physiology of Exercise (3)****Fall:** All Years **Spring:** All Years

A study of the function of those body systems most directly affected by and involved in exercise. Physiological consideration in human movement such as thermal regulation, performance at altitude and underwater, drugs and other ergogenic aids, and designing of specialized training programs will be pursued. **Prerequisite:** PE 321

**PE 435 Issues and Trends in Physical Education/Athletics (1-3)****Fall:** Demand **Spring:** Demand

Issues or trends of major concern in the discipline of Physical Education and athletics. The course may be repeated as content varies.

**PE 452 Adapted Physical Education (3)****Fall:** All Years

This course provides the student with an introductory study to adapted physical education and includes strategies for meeting the needs of student with disabilities in the least restrictive environment.

**PE 453 Assessment and Programming in D/APE (3)****Fall:** Demand **Spring:** Demand

Prepares Developmental/Adaptive specialists to administer a variety of norm and criteria referenced tests, and design age-appropriate learning activities.

**PE 454 Curriculum in Developmental/Adapted Physical Education (3)****Fall:** Demand **Spring:** Demand

Prepares Developmental/Adapted specialists to provide direct service to handicapped students, serve as consultants to other physical education teachers, assess motor and physical fitness levels, write individual programs, read and understand research in adapted physical education. **Prerequisite:** PE 452

**PE 456L Lab Curriculum and Assessment for Severely Handicapped (1)****Fall:** Demand **Spring:** Demand

This course involves application of the functional program philosophy associated with teaching students with severe disabilities. This 30 hour lab course requires students to develop a 'clip board' instructional system for planning, teaching, and evaluating physical education activities.

**PE 460 Principles of Coaching (3)****Fall:** All Years **Spring:** All Years

This course is designed to prepare physical education majors for successful entry into the coaching profession. Major emphases are placed upon coaching philosophy, sport psychology, sport pedagogy, group dynamics, and public relations.

**PE 461 Coaching Practicum (1)****Fall:** All Years **Spring:** All Years

The practicum requires 40 hours of coaching experience under the supervision of a certified head coach. Should be taken after or concurrently with PE 372 or PE 460.

**Prerequisite:** HLTH 250**PE 469 Internship (2-12)****Fall:** All Years **Spring:** All Years

Designed to give students an opportunity to gain supervised clinical experiences working with a variety of state and local agencies.

**PE 473 Exercise Testing and Interpretation (3)****Fall:** All Years

This course provides instruction in the guidelines and principles of advanced exercise testing and ECG interpretation.

**PE 474 Tests and Measurements in Physical Education (3)****Fall:** All Years

This course deals with the theory of measurement in physical education, the selection and administration of appropriate tests, and the interpretation of results by fundamental statistical procedures.

**PE 475 Administration of Athletics (2)****Fall:** Demand

This course is designed to be a culminating experience for the physical education major, providing an opportunity for the students to draw upon their classroom and practical experiences in formulating their philosophical bases for the variety of concerns related to organizing and administering athletic programs.

**PE 490 Topics in Physical Education (1-4)****Fall:** Demand **Spring:** Demand**PE 495 Administration of Physical Education (3)****Spring:** All Years

A study of problems, policies and procedures in the administration of physical education.

**Physics****PHYS 101 [B1] Introduction to Physics (3)****Fall:** Demand **Spring:** Demand

Introduction to topics in a representative area in physics, such as mechanics, chosen to model how scientists develop and test models or theoretical systems. Material is presented in a guided activity-based format with participants working in cooperative learning groups to investigate relevant knowledge.

**PHYS 105 [B] Physics of Music (3)****Fall:** All Years **Spring:** All Years

Physical principles governing the production, transmission and reception of musical sound. A background in music is strongly recommended.

**PHYS 111 [B1] Elementary Physics I (4)****Fall:** All Years

Concepts and principles of elementary physics presented in a guided activity-based format which integrates lecture and laboratory using cooperative group learning techniques. Includes kinematics and mechanics. **Prerequisite:** MATH 143

**PHYS 112 [B1] Elementary Physics II (4)****Spring:** All Years

Concepts and principles of elementary physics presented in a guided activity-based format which integrates lecture and laboratory using cooperative group learning techniques. Includes thermal physics, electromagnetism, and optics. **Prerequisite:** PHYS 111

**PHYS 120 [B1] Physical Science I (3)****Fall:** All Years **Spring:** All Years

Activity-based conceptual learning, appropriate to the elementary classroom and to the life-long learning of physical science will be modeled in the course.

**PHYS 121 [B1] Physical Science II (3)****Spring:** All Years

A continuation of Physics 120. Activity-based conceptual learning appropriate to the elementary classroom and to the lifelong learning of science will be modeled in this course. This course will include three topics of physical science: (a) Properties of Matter, (b) Electric Circuits, and (c) Phases of the Moon. **Prerequisite:** PHYS 120

**PHYS 190 Topics in Physics (1-3)****Fall:** Demand **Spring:** Demand

A study of a specific area of physics.

**PHYS 200 [B1] General Physics I (5)****Fall:** All Years

Calculus-based study of general physics presented in a guided activity-based format which integrates laboratory and lecture using cooperative learning techniques. Includes Newton's Laws, work, energy and momentum, harmonic motions, gravitation and wave motion.

**Prerequisite:** MATH 261

**PHYS 201 [B1] General Physics II (5)****Spring:** All Years

Calculus-based study of general physics presented in a guided activity-based format which integrates laboratory and lecture using cooperative learning techniques. Continuation of PHYS 200 including electric charges, electric fields, capacitance electric circuits, magnetic fields, electromagnetic induction and an introduction to optics. **Prerequisite:** PHYS 200

**PHYS 305 Experimental Physics I (1)****Fall:** Demand

Study of laboratory techniques and measuring instruments. One lecture and one three-hour laboratory per week. **Prerequisite:** PHYS 201

**PHYS 306 Experimental Physics II (1)****Spring:** Demand

Study of laboratory techniques and measuring instruments. One lecture and one three-hour laboratory per week. **Prerequisite:** PHYS 201

**PHYS 310 Introduction to Relativistic Physics (2)****Fall:** Demand **Spring:** Demand

Topics: principles of relativity, Lorentz transformations, space-time diagrams, energy and linear momentum, and equivalence of energy and rest mass.

**Prerequisite:** PHYS 201**PHYS 311 Introduction to Circuit Analysis (4)****Fall:** Demand **Spring:** Demand

Linear electric circuits. Component models, circuit laws, transient and steady state analysis design, numerical methods. Computer simulation methods.

**Prerequisite:** PHYS 201**PHYS 322 Elementary Modern Physics (4)****Fall:** Even Years

Topics: special relativity, wave-particle duality, Bohr atom, quantum mechanics, hydrogen atom, many electron atoms, nuclear properties and nuclear reactions. **Prerequisite:** PHYS 201

**PHYS 330 Intermediate Mechanics (4)****Fall:** Demand **Spring:** Demand

An advanced unified approach to physical problems: Newton's Laws; particle dynamics in one, two, and three dimensions; systems of particles, gravitation, moving reference frames; Lagrange's equations, dynamics of rigid bodies; Hamilton's equations.

**Prerequisite:** MATH 366, PHYS 201, PHYS 350**PHYS 342 Introduction to Research (1)****Fall:** Demand **Spring:** Demand

The course will prepare students for independent undergraduate research. The students will be introduced to the literature search process, common research techniques, safety aspects, faculty research interests and applications of science in industry.

**PHYS 350 Computational Methods for Physical Science (3)****Spring:** All Years

This course introduces students in the physical sciences to basic techniques of data analysis, graphical depiction, numerical modeling, and symbolic computation. All topics are covered in relation to specific problems in physics or chemistry. Includes the topics: matrix manipulation, least squares fitting, general curve fitting, 2 and 3 dimensional graphic display, numeric integration and differentiation, data smoothing, numeric solution of differential equations. Fourier analysis using computers, and computer symbolic programs for algebra and calculus. Software used will be spreadsheets and specialized programs like Mathcad, Mathematica, Maple, Theorist, and Derive. **Prerequisite:** PHYS 200

**PHYS 360 Theoretical Acoustics (2)****Fall:** Demand **Spring:** Demand

Topics: vibrating systems, wave propagation, acoustical filters, architectural acoustics, microphones, loudspeakers, sound radiation.

**Prerequisite:** PHYS 201, MATH 366**PHYS 370 Electromagnetic Theory (4)****Fall:** Demand **Spring:** Demand

Advanced study of electromagnetism including algebra and calculus of vectors, electrostatics in a vacuum and in dielectric materials, magnetostatics in nonmagnetic and magnetic materials, Maxwell's Equations and electromagnetic waves. **Prerequisite:** MATH 366, PHYS 201

**PHYS 372 Optics (2)****Fall:** Demand **Spring:** Demand

Geometrical optics, interference, diffraction, polarization and optical instruments. **Prerequisite:** PHYS 370

**PHYS 380 Celestial Mechanics (2)****Fall:** Demand **Spring:** Demand

Principles of celestial mechanics, central force motion, two body problem, n body problem, prediction and determination of orbits, perturbations.

**Prerequisite:** PHYS 330**PHYS 399 Thermodynamics (3)****Fall:** Demand **Spring:** Demand

Elements of classical thermodynamics, kinetic theory and statistical mechanics. **Prerequisite:** PHYS 330

**PHYS 410 Astrophysics (2)****Fall:** Demand **Spring:** Demand

Mathematical consideration of various topics in introductory astrophysics. Topics may vary slightly depending on interests of instructor and participants.

**PHYS 430 Quantum Mechanics (3)****Fall:** Demand **Spring:** Demand

Application of quantum mechanics to atoms and molecules. **Prerequisite:** PHYS 350, PHYS 322, MATH 366

**PHYS 440 Secondary Science Teaching Methods (3)****Spring:** All Years

For secondary education students. Material and methods typical to high school physics.

**PHYS 455 Senior Project (2)****Fall:** Demand **Spring:** Demand

A project involving experimental and/or theoretical research on a physics topic with extensive library research as well. A detailed written report and an oral presentation are required.

**PHYS 469 Physics Internship (2-4)****Fall:** Demand **Spring:** Demand

Supervised practical work experience at an approved business, industry or workplace where physics principles are utilized.

**PHYS 490 Special Topics in Physics (1-3)****Fall:** Demand **Spring:** Demand**POL 230 [C] Introduction to the Law (3)****Spring:** All Years

The philosophy of law; its social context; justice and its implications; evolution of legal concepts and systems.

**POL 230 Public Administration (3)****Spring:** All Years

The structure, operation, and politics of public bureaucracy, and its relations with other actors and institutions in government.

**POL 232 Criminal Law (3)****Fall:** All Years **Spring:** All Years

Substantive criminal law; development of principles, meaning and applications of criminal law; current issues and institutions.

**POL 290 Introduction to Topics in Political Science (3)****Fall:** All Years **Spring:** All Years

Examination of an issue at an introductory level. May be repeated as topic varies.

**POL 310 Political Science Research Methods (3)****Fall:** All Years

Introduction to empirical research in political science; the nature and role of theory, research design, measurement, and the selection and interpretation of inferential statistics.

**POL 315 Political Thought (3)****Spring:** All Years

Selected reading and analysis of the major ideas and concepts that have influenced the evolution of modern political ideas.

**POL 320 American Legislative Process (3)****Fall:** Odd Years

Legislative decision-making, organization and relationships with other branches of government, parties and the political process.

**POL 321 American Executive Process (3)****Spring:** Even Years

Executive decision-making and relationships with other branches of government, parties and the political process.

**POL 322 Executive and Legislative Process (3)****Fall:** Odd Years

Legislative and executive decision-making and organization. Relationships between the two branches and with other parts of government, political parties, and the political process.

**Political Science****POL105 [C] Making Sense of Politics (3)****Fall:** All Years **Spring:** All Years

This course is designed to help the citizens of modern society understand the recurring principles, practices, and patterns of politics. Having learned how politics affects our lives every day, students can become informed participants at the local, national, and global levels.

**POL 120 [C] American National Government and Politics (3)****Fall:** All Years **Spring:** All Years

Fundamentals of American political institutions, structures and processes; rights and selected public policies

**POL 160 [C] International Relations (3)****Fall:** All Years

Nation-state system: the network of economic, political, cultural and technological interdependence; power, diplomacy, intelligence, war and the arms race.

**POL 210 Introduction to Political Science (3)****Fall:** All Years

An introduction to the major questions of political science and the scientific study of politics. Conceptual development is examined as represented in the major fields of political science.

**POL 221 [C] State and Local Government (3)****Spring:** All Years

A study of the basic functions, structure, procedures and problems of American state and local government, with an emphasis upon intergovernmental relations.

**POL 324 Political Parties and Interest Groups (3)****Fall:** Even Years

This course will examine the role of parties in American politics and the relationship between parties and interest groups which is relatively new to American politics. The course will examine how parties compete with and complement one another. The behavior of parties and interest groups in elections and governance will be examined.

**POL 328 The Media and Politics (3)****Fall:** Demand **Spring:** Demand

The media's role in politics, including relations between the media and government. **Prerequisite:** POL 120

**POL 330 The Judicial System (3)****Fall:** All Years

The legal institutions, their functions and procedure; the Anglo-American experience; the American judicial system.

**POL 332 Constitutional Law I: Institutional Powers and Constraints (3)****Fall:** All Years

This course focuses on the topics of judicial review, separation of powers, federalism, and economic regulation, including commerce and taxation, substantive due process, and eminent domain.

**Prerequisite:** POL 120**POL 333 Constitutional Law II: Civil Rights and Liberties (3)****Spring:** All Years

This course focuses on the topics of First Amendment freedoms, including speech, press, expression, assembly, and religion; rights under the Fourth, Fifth, Sixth, and Eighth Amendments; and questions of race, gender, and ethnicity under the Fifth and Fourteenth Amendments. **Prerequisite:** POL 120

**POL 340 Public Administration (3)****Spring:** All Years

The structure, operation, and politics of public bureaucracy, and its relations with other actors and institutions in government.

**POL 341 Public Policy (3)****Fall:** All Years

An examination of the development, implementation, and evaluation of public policy.

**POL 350 Comparative Governments of Western Europe (3)****Fall:** All Years

Comparative examination of the political systems of Britain, France, Germany, and Italy; trans-national cooperation among them.

**POL 352 Political Problems in Developing Countries (3)****Spring:** Even Years

Social and economic conditions affecting political institutions in the developing countries. The Third World in international relations and the political economy of development.

**POL 360 American Foreign Policy (3)****Fall:** Odd Years

Analysis of U.S. foreign policy, with an emphasis on decision making and the policy process.

**POL 361 International Political Economy (3)****Spring:** All Years

This course will examine the political, economic, and social processes governing international production, trade, and consumption. It includes an examination of the political economy of North-South relations.

**POL 365 International Protection of Human Rights (3)****Fall:** All Years

This course focuses on the contemporary concern with human rights in its political, social, cultural, and legal contexts. It examines the history, philosophy, and legal foundations of the human rights movement, and how the ideas and context of human rights are realized in different societies.

**POL 366 International Conflict Resolution (3)****Spring:** All Years

This course is devoted to understanding and examining the phenomenon of international conflict, and to examining the efforts by nation-states, inter-governmental organizations, and non-governmental organizations to resolve international conflict.

**POL 410 Topics in Political Thought (1-3)****Fall:** Demand **Spring:** Demand

Selected analysis of various thinkers, theories, traditions and ideologies. May be repeated as topic varies.

**POL 420 Topics in American Politics (1-3)****Fall:** Demand **Spring:** Demand

Selected focus on various topics of American political processes and institutions. May be repeated as topic varies.

**POL 430 Topics in Constitutional Law (1-3)****Fall:** All Years

Interpretation of the Constitution of the United States by federal courts on selected topics. May be repeated as topic varies. **Prerequisite:** POL 230, POL 232, POL 330, SOC 307, MC 440

**POL 450 Topics in Comparative Government (1-3)****Fall:** Demand **Spring:** Demand

Variable topics such as comparative political behavior, theory in comparative politics or comparative institutions. May be repeated as topic varies.

**POL 460 Topics in International Relations (1-3)****Spring:** All Years

International relations theory, organizations and legal issues. May be repeated as topic varies.

**POL 469 Student Internship (1-10)****Fall:** All Years **Spring:** All Years

A maximum of four credits may be used as electives to fulfill the "Major Requirements in Political Science."

**POL 490 Senior Seminar in Political Science (3)****Fall:** All Years **Spring:** All YearsExamination of an issue, problem or concept at a senior level in a seminar setting. May be repeated as topic varies. **Prerequisite:** POL 120,**POL 497 Independent Study in Political Science (1-4)****Fall:** All Years **Spring:** All Years

Readings, research papers, special projects with the close supervision of a member of the department.

**Prerequisite:** POL 120**Psychology****PSY 113 [C] General Psychology (3)****Fall:** All Years **Spring:** All Years

Survey of content and methods of modern psychology.

**PSY 120 [C] Social Behavior (3)****Fall:** All Years **Spring:** All YearsThe influence of other people on the behavior and attitudes of individuals. Topics include attitude change, the effect of being a part of a group, attraction, aggression, sex roles and discrimination. Theory and application. Credit not applicable to Psychology major or minor. **Prerequisite:** PSY 113**PSY 131 Introductory Psychology Laboratory (1)****Fall:** All Years **Spring:** All YearsIntroduction to experimental methodology with emphasis on report writing. Initiation, data collection, and report of simple experiment. **Prerequisite:** PSY 113**PSY 202 [C] Developmental Psychology (3)****Fall:** All Years **Spring:** All Years

Psychological development of the individual from conception to death, including genetic, pre- and post-natal influences; relations with parents and peers; social, emotional and intellectual development.

**Prerequisite:** PSY 113**PSY 210 Contemporary Issues in Psychology (3)****Fall:** Demand **Spring:** DemandAn in-depth look at topics in psychology and how they relate to the situations and problems of contemporary society. **Prerequisite:** PSY 113**PSY 231 Psychological Statistics and Methodology I (3)****Fall:** All Years **Spring:** All Years

Introduction to research methods in psychology; descriptive and inferential statistics; elementary hypothesis testing. Laboratory included.

**Prerequisite:** PSY 113, PSY 131**PSY 232 Psychological Statistics and Methodology II (3)****Fall:** All Years **Spring:** All YearsAnalysis of variance designs; multiple-comparison tests; nonparametric tests; computer applications to statistics. Laboratory included. **Prerequisite:** PSY 231**PSY 261 [C] Personality (3)****Fall:** All Years **Spring:** All YearsIntroduction to the study/explanation of human behavior, motivation and conflict emphasizing personality as viewed by a variety of theorists. **Prerequisite:** PSY 113**PSY 265 [C] Health Psychology (3)****Fall:** Demand **Spring:** Demand

Study of psychosocial influences in health maintenance and prevention of illness. Emphasis is on cognitive-behavioral intervention to promote life-style changes and increase compliance with medical regimens.

**Prerequisite:** PSY 113**PSY 292 Directed Research (1-3)****Fall:** Demand **Spring:** Demand

Conduct of research under direct supervision of a faculty member. Emphasis is on experience and learning with regard to research design and analysis.

**Prerequisite:** PSY 113, PSY 131**PSY 293 Field Work in Psychology (1-2)****Fall:** Demand **Spring:** Demand

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

**PSY 310 [C] Psychology of Women (3)****Fall:** Demand **Spring:** Demand

The interacting effects of biology, physiology, and psychology on female development, providing evidence on sex differences and role differentiation.

**Prerequisite:** PSY 113**PSY 317 Alcoholism and Drug Abuse (3)****Fall:** Demand **Spring:** Demand

Informational survey and study of alcoholism and drug abuse, a major health problem with substantive psychological components. The physiological, psychological, and social impact of drugs and their misuses and abuses will be discussed. Students must have earned three credits in psychology courses or have the consent of the instructor.



**PSY 320 Social Psychology (3)****Fall:** All Years **Spring:** All Years

Theories and research involving individual's reactions to others. Topics: social perception, attraction, social influence, aggression, social exchange. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 323 Industrial/Organizational (3)****Fall:** Demand **Spring:** Demand

Understanding the behavior of individuals at work plus psychology's contribution to their selection, training, evaluation and motivation. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 324 [C] Environmental Psychology (3)****Fall:** Demand **Spring:** Demand

An examination of the effects of the social, physical and ecological features of the environment on human behavior. Topics include the effects of crowding, noise, architecture and urban design. Students must have earned three credits in psychology courses or have the consent of the instructor.

**PSY 342 Learning and Memory (3)****Fall:** All Years **Spring:** All Years

A survey of classical and operant conditioning, observational learning, and models of memory storage and retrieval. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 345 Physiological Psychology (3)****Fall:** All Years **Spring:** All Years

Basic biological facts and their relationship to behavior. An analysis of the senses, hormonal systems, brain and peripheral nervous system will be included. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 348 Cognition and Perception (3)****Fall:** All Years **Spring:** All Years

Study of cognitive and perceptual theories and processes. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 351 Psychology of Individual Differences (3)****Fall:** Demand **Spring:** Demand

An overview of the study of individual and group differences in psychological functioning. Students will gain an understanding of the ways and extent to which individuals and groups differ from one another as well as an understanding of the factors responsible for these differences. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 352 Psychological Measurement (3)****Fall:** Demand **Spring:** Demand

An introduction to the theoretical aspects of psychological measurement covering such topics as reliability, validity, psychophysics and item analysis. Students must have earned six credits in psychology courses prior to enrolling in this class. Students may discuss alternative courses to PSY 231 with the instructor. **Prerequisite:** PSY 231

**PSY 402 Child/Adolescent Psychology (3)****Fall:** All Years

Human development from the prenatal period through adolescence. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 403 Adulthood and Aging (3)****Spring:** All Years

Discussion of some of the major theoretical approaches and current issues in human development from young adulthood through old age and death. Students must have earned six credits in psychology courses prior to enrolling in this class.

**PSY 420 Experimental Social Psychology (3)****Fall:** Demand **Spring:** Demand

Emphasis is on research method in social psychology. Methodological issues are covered in readings and discussion. Current research articles are analyzed. Laboratory included. **Prerequisite:** PSY 232, PSY 320

**PSY 442 Experimental Learning (3)****Fall:** Demand **Spring:** Demand

Laboratory course emphasizing the theories and principles of classical conditioning, operant conditioning, verbal learning and memory. Laboratory included. **Prerequisite:** PSY 232, PSY 342

**PSY 445 Experimental Physiological Psychology (3)****Fall:** Demand **Spring:** Demand

Study of the biological processes that underlie control and execution of behavior; demonstrated research competencies are required. Laboratory included. **Prerequisite:** PSY 232, PSY 345

**PSY 448 Experimental Cognition and Perception (3)****Fall:** Demand **Spring:** Demand

Laboratory course examining theories, principles, and methods in the study of cognition and perception. Laboratory included. **Prerequisite:** PSY 232, PSY 348

**PSY 449 Experimental Topics in Psychology (3)****Fall:** Demand **Spring:** Demand

Research topics of special interest to majors and advanced students in other fields. Specific content varies. Laboratory included. **Prerequisite:** PSY 232

**PSY 455 [C] Psychology of the Arts (3)****Fall:** Demand **Spring:** Demand

An understanding of the relationship of the fundamental principles of psychology to the arts is developed from the formal beginning of psychology to the present. Students must have earned six credits in psychology courses or have the consent of the instructor.

**PSY 461 Theories of Personality (3)****Fall:** Demand **Spring:** Demand

A survey of the major theories used in the study of personality assessment and research. Students must have earned six credits in psychology courses or have the consent of the instructor.

**PSY 463 Abnormal Psychology (3)****Fall:** All Years

Descriptive and explanatory models are detailed in relation to their relevance to behavior pathology and the prevention of abnormal behavior. Students must have earned nine credits in psychology courses or have the consent of the instructor.

**PSY 465 Clinical Psychology (3)****Spring:** All Years

Discussion of techniques of psychotherapy, crisis intervention, interviewing, clinical assessment and prevention of disorder. Emphasis on psychotherapy as a process of understanding. Students must have earned nine credits in psychology courses or have the consent of the instructor.

**PSY 469 Student Internship in Psychology (3-16)****Fall:** Demand **Spring:** Demand

Placement in a practical setting under appropriate individual or agency and departmental supervision. Students must be psychology majors with at least Junior standing and must have a GPA of 2.5 or higher.

**PSY 470 History and Systems of Psychology (3)****Fall:** Demand **Spring:** Demand

An overview of the development of psychology from associationism to the present. Schools, fields and areas of psychology are emphasized. Students must have earned nine credits in psychology courses prior to enrolling in this class.

**PSY 481 Seminar in Psychology (3)****Fall:** All Years **Spring:** All Years

For majors and advanced students in other areas. Student participation emphasized. Content may vary each semester. Students must have earned nine credits in psychology courses prior to enrolling in this class.

**PSY 490 Topics in Psychology (3)****Fall:** Demand **Spring:** Demand

Coverage of a topic not central to other courses in the department. Topics will vary depending on the interest of students and faculty. Students must have earned nine credits in psychology courses prior to enrolling in this class.

**PSY 494 Independent Research (1-3)****Fall:** Demand **Spring:** Demand

Student assumes responsibility in the implementation of research related to interests of a faculty supervisor or in the area of their own choosing. Weekly meeting required.

**PSY 497 Independent Study (1-3)****Fall:** Demand **Spring:** Demand

Individual topical studies of special interest. Course may be repeated.

## Recreation

**REC 140 Camping and Outdoor Recreation (2)****Spring:** Demand

Provides a broad perspective of the aims, purposes and values of camping and outdoor recreation, and provides leadership training for counselors.

## Science

**SCI 110 [B1] Science Technology and Society (3)****Fall:** Demand **Spring:** Demand

The science, the technology and the societal impacts of several contemporary issues will be examined. Topical treatment will include developments related to cancer, polymers, agriculture, and material science. The nature of problems posed by society and the scientific/technological problem solving approaches practiced will be presented. **Prerequisite:** CHEM 102, CHEM 104, BIOL 102, BIOL 104

## Social Work

### SW 105 Crisis Intervention Experience (1)

**Fall:** All Years **Spring:** All Years

Credit for successful completion of volunteer training in selected community agencies and for completion of an additional 20 hours of volunteer work in the same agency. Contact the department for details.

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

**Fall:** All Years **Spring:** All Years

Overview of social welfare and social work, including fields of practice, institutions, populations served, special issues, and an introduction to some social work methods and theories.

### SW 308 Introduction to Gerontology (3)

**Fall:** All Years

An interdisciplinary approach to the study of aging. Examines aging in society, individual aging, and age-related social policy.

### SW 330 Human Behavior and the Social Environment (3)

**Fall:** All Years **Spring:** All Years

Overview and application of systems theory. Assess the interactions among individuals and between individuals and social systems. Includes an integration of bio-psycho-social variables that affect human development and behavior. SW 250 may be taken as co-requisite with instructor's approval. **Prerequisite:** SW 250, SOC 110, PSY 113, PSY 202, BIOL 104

### SW 360 Research Methods in Social Work (3)

**Fall:** All Years **Spring:** All Years

Study of research methods (designs) and processes including assessing problems, analyzing and presenting data, and monitoring and evaluating intervention and services in social work practice. **Prerequisite:** SW 250, SOC 350, and admission to the major.

### SW 369 Field Experience I (3-6)

**Fall:** All Years **Spring:** All Years

Elective field learning experience to gain knowledge and understanding of basic social service intervention. Three credits require 10 hours per week in an approved community social service agency to a maximum of 6 credits for 20 hours per week. (Advance planning required) **Prerequisite:** SW 330

### SW 402 Child Welfare Services (3)

Problems, policies, and practices in the area of child welfare. Content includes: children's guardianship, the juvenile court system, children's out-of-home care, child protection services, foster care and adoption.

**Prerequisite:** SW 250

### SW 403 Health Care Issues and Services (3)

Social work roles within the health delivery system, cost of health care, and health care reform. Study of health care issues, social work ethics, and values in health care. **Prerequisite:** SW 250

### SW 404 Rural Social Work (3)

Social change in rural societies: problems, needs, programs and role of social workers in rural United States with emphasis on Upper Great Plains region. **Prerequisite:** SW 250

### SW 405 Human Behavior and the Social Environment Through Literature (3)

Human behavior, social problems, social relationships and environment as seen in classic and contemporary fiction and drama. **Prerequisite:** SW 250

### SW 410 Gerontology: Policy and Practice (4)

4-6 hours a week will involve field experience working in a facility involving elderly care. Two hours a week will involve in-class discussion of the field experience as well as an examination of social policies relating to the elderly, including Social Security, Older Americans' Act, Medicare, and Medicaid. **Prerequisite:** SOC 308

### SW 411 Chemical Dependency (3)

Exploration of chemical use, abuse, and addiction, with emphasis on alcohol as the drug of choice. Prevention, intervention, special problems of women, youth, elderly, and minority populations are examined.

**Prerequisite:** SW 250

### SW 420 Generalist Practice: Individuals (3)

**Fall:** All Years **Spring:** All Years

Generalist social work practice utilizing the problem-solving model with focus on the knowledge, values and skills for working with individuals. SW 360 may be taken as a co-requisite. **Prerequisite:** SW 330, SW 360, and admission to the major

### SW 430 Generalist Practice: Families (3)

**Fall:** All Years **Spring:** All Years

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with families. SW 360 may be taken as co-requisite. **Prerequisite:** SW 360 and admission to the major

### SW 431 Readings in Social Welfare (2-3)

**Fall:** All Years **Spring:** All Years

Reading in-depth in selected areas of social work under faculty supervision. Credits determined by the extent and depth of the readings. **Prerequisite:** SW 330

### SW 440 Generalist Practice: Groups (3)

**Fall:** All Years **Spring:** All Years

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with groups. **Prerequisite:** SW 420 and admission to the major

**SW 450 Generalist Practice: Communities and Organizations (3)****Fall:** All Years **Spring:** All Years

Generalist social work practice utilizing the problem solving model with focus on the knowledge, values and skills for working with organizations and communities.

**Prerequisite:** SW 420 and admission to the major**SW 460 Social Policy (3)****Fall:** All Years **Spring:** All Years

Development of social welfare policies, political and economic perspectives, policy analysis/change process, policy evaluation, and the relationship of social policy to social work practice. **Prerequisite:** ECON 100,

POL 120, POL 240, HIST 241, SW 330, and admission to the major

**SW 469 Internship (12)****Fall:** All Years **Spring:** All Years

Required field experience under agency and departmental supervision. Opportunity to practice and integrate the social work knowledge, values and skills obtained in the classroom. Planning must be made at least two semesters prior to internship. **Prerequisite:** SW 360, SW 420, SW 430, SW 440, SW 450, SW 460, and admission to the major

**SW 470 Senior Seminar (3)****Fall:** All Years **Spring:** All Years

Seminar during internship to promote integration of academic knowledge and field learning with a focus on professional and ethical issues.

**SW 479 Field Experience II (3-10)****Fall:** All Years **Spring:** All Years

Elective field learning experience used to enhance knowledge and skills acquired in SW 469 Internship. Advanced planning required. **Prerequisite:** SW 469

**SW 490 Topical Seminar in Social Welfare (1-3)****Fall:** Demand **Spring:** Demand

Selected topics of concern to social work students and human service professionals. May be repeated to 6 credits. **Prerequisite:** SW 250

**SW 497 Independent Study (2-3)****Fall:** All Years **Spring:** All Years

Individual study, project, or research of special interest. Repeatable to 6 credits. May apply to the social work elective requirement for the major.

**Prerequisite:** SW 360**SW 499 Social Work Workshops (1-3)**

Workshops in the Department of Social Work to meet specific needs of students and agency personnel in the community.

**Sociology****SOC 110 [C] Introduction to Sociology (3)****Fall:** All Years **Spring:** All Years

Introduces the sociological approach to understanding the structure and dynamics of society. Focuses on socialization, organization, social inequality, institutions, and social change.

**SOC 111 [C] Social Problems (2)****Fall:** All Years **Spring:** All Years

Examines such problems as racism, sexism, inequality, and environmental issues. **Prerequisite:** SOC 110

**SOC 112 [C] Social Deviance (2)****Spring:** All Years

A survey of concepts of deviance. Special attention may be paid to the role of relevant professionals in the creation and control of deviance.

**Prerequisite:** SOC 110**SOC 205 [C] Social Psychology (3)****Fall:** All Years **Spring:** All Years

Stresses the social nature of human beings and examines the importance of interaction, self, society, culture and symbols to the development of the human being and to the cause of human action.

**Prerequisite:** SOC 110**SOC 205R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 205W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 211 [C] Social Theory (3)****Spring:** All Years

Examines the theoretical arguments of Karl Marx, Max Weber and Emile Durkheim. Other theorists are examined as time allows. **Prerequisite:** SOC 110

**SOC 211R Recitation (1)****Spring:** Demand**SOC 211W Writing Intensive (1)****Spring:** Demand**SOC 215 [C] Population (3)****Fall:** All Years

Social and cultural aspects of national and international population change. Problems associated with population and population change will be examined.

**Prerequisite:** SOC 110**SOC 215R Recitation (1)****Fall:** Demand**SOC 215W Writing Intensive (1)****Fall:** Demand

**SOC 219 Sociology of Sexual Behavior (2)****Fall:** Odd Years

Examines sociological and social psychological perspectives and research on human sexual behavior. Changes occurring in sexual beliefs and practices in American society and reasons for those changes are examined in detail. Topics include childhood sexual behavior, adolescent sexual behavior, sex and the process of mate selection, marital sex, extramarital sex, and various forms of sexual variation.

**Prerequisite:** SOC 110**SOC 235 [C] Sociology of Health and Medicine (3)****Spring:** All Years

Social factors in health, illness, and medical care. Topics include the social construction of health/illness, the experience of illness, health professions and organizations, and the health care system.

**Prerequisite:** SOC 110**SOC 235R Recitation (1)****Spring:** Demand**SOC 235W Writing Intensive (1)****Spring:** Demand**SOC 290 Topics in Sociology (1-3)****Fall:** Demand **Spring:** Demand

This course will consist of varying topics in the discipline of sociology.

**SOC 300 Sociology of Crime and Delinquency (3)****Fall:** All Years

Examines the following: the nature of crime in America, delinquent behavior, crime statistics, types of crime, crime causation, the process of criminal justice, prisons and corrections. **Prerequisite:** SOC 110, SOC 112

**SOC 300R Recitation (1)****Fall:** Demand**SOC 300W Writing Intensive (1)****Fall:** Demand**SOC 303 Punishment and Corrections (3)****Fall:** All Years

This course examines the following: the definition of key concepts; the history and rationale of punishment, institutional control, and corrections in the United States and other countries. **Prerequisite:** SOC 110, SOC 112

**SOC 303R Recitation (1)****Fall:** Demand**SOC 303W Writing Intensive (1)****Fall:** Demand**SOC 307 Sociology of Courts (3)****Fall:** All Years **Spring:** All Years

Analyzes the criminal court as an organization; the prosecutor, the defense attorney, judges, officers, and professionals as a "work group" with pragmatic goals and working arrangements; and plea negotiations as the ordinary work technique. **Prerequisite:** SOC 110

**SOC 307R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 307W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 308 Introduction to Gerontology (3)****Fall:** All Years

An interdisciplinary approach to the study of aging. Examines aging in society, individual aging, and age-related social policy. **Prerequisite:** SOC 110

**SOC 308R Recitation (1)****Fall:** Demand**SOC 308W Writing Intensive (1)****Fall:** Demand**SOC 309 Law and Society (4)****Fall:** All Years **Spring:** All Years

Relationships of law and society; social forces in law making; dynamics of law administration; social, cultural and behavioral effects of law; history and development of the legal profession; analysis of legal language and reasoning. **Prerequisite:** SOC 110

**SOC 310 [F1] Dominant-Subordinate Group Relations (3)****Fall:** All Years **Spring:** All Years

Examines some of the theories of ethnic, racial, and gender inequality, using the histories and contemporary situations of specific groups as examples. Topics may include race and ethnic contacts; prejudice, discrimination, and stereotyping; structures of inequality; ideological justifications for inequality.

**Prerequisite:** SOC 110**SOC 310R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 310W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 311 Sociology of Law Enforcement (3)****Fall:** All Years

Examines the emergence of municipal policing as a unique social bureaucracy in England and later the United States. Specific issues, such as police discretion, corruption, white collar crime, and police-community relations are examined in light of the structure of policing. **Prerequisite:** SOC 110

**SOC 311R Recitation (1)****Fall:** Demand**SOC 311W Writing Intensive (1)****Fall:** Demand

**SOC 320 [C] Sociology of the Family (3)****Fall:** All Years **Spring:** All Years

Examines the theoretical issues and research findings pertaining primarily to American family life. Topics include dating and mate selection, alternatives to traditional marriages, marital structure and interaction, and marital dissolution. **Prerequisite:** SOC 110

**SOC 320R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 320W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 322 [C] Urban Sociology (3)****Spring:** All Years

Analysis of social organization, processes and action typical of urban life. Focus will also include urban change and comparative analysis of world communities. **Prerequisite:** SOC 110

**SOC 322R Recitation (1)****Spring:** Demand**SOC 322W Writing Intensive (1)****Spring:** Demand**SOC 330 [C] Sociology of Religion (3)****Fall:** Demand **Spring:** Demand

Emphasizes major theoretical approaches to religion; magic, science, and myth; patterns of religious organizations; religion and social change; secularization and its effects; and new religious movements. **Prerequisite:** SOC 110

**SOC 330R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 330W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 333 [C] Sociology of Gender (3)****Fall:** All Years **Spring:** All Years

Focuses on the social construction of gender and consequences of gender stratification for women and men. Topics may include: gender differences; the concept of "gender role"; gender in the economic, political, and educational institutions; discrimination; and the feminist movement. **Prerequisite:** SOC 110

**SOC 333R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 333W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 350 Methods of Social Research (4)****Fall:** All Years **Spring:** All Years

Focus on the logic of science, a survey of basic methodologies, and introduction to descriptive and inferential statistics. **Prerequisite:** SOC 110

**SOC 351 Quantitative Methods (2)****Spring:** All Years

A continuation of SOC 350. Focus on quantitative methods. A research project involving computer work will be required. **Prerequisite:** SOC 350

**SOC 352 Qualitative Methods (2)****Spring:** All Years

A continuation of SOC 350. Focus on qualitative methods. Examines the major methodological problems encountered in the use of qualitative data. A research project involving qualitative methodology will be required. **Prerequisite:** SOC 350

**SOC 355 Society and the Ecosystem (3)****Fall:** All Years

Focuses on relationships between social systems and ecosystems. Examines how human systems of agriculture, transportation, housing and energy are related to environmental pollution, depletion, and sustainability. Will also examine the development of the environmental movement and global environmental issues. **Prerequisite:** SOC 110

**SOC 355R Recitation (1)****Fall:** Demand**SOC 355W Writing Intensive (1)****Fall:** Demand**SOC 390 Topics in Sociology (3)****Fall:** Demand **Spring:** Demand

Varying topics from the discipline of sociology. **Prerequisite:** SOC 110

**SOC 390R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 390W Writing Intensive (1)****Fall:** Demand **Spring:** Demand**SOC 404 Social Power (3)****Fall:** Demand **Spring:** Demand

Examines social power from a variety of approaches, including exchange theory, Karl Marx, Robert Michels, Vilfredo Pareto, Tocqueville, mass society theory, pluralism, C. Wright Mills, C. William Domhoff, Max Weber, and John Kenneth Galbraith. Modern theories and studies of class will also be discussed. **Prerequisite:** SOC 211

**SOC 404R Recitation (1)****Fall:** Demand **Spring:** Demand**SOC 404W Writing Intensive (1)****Fall:** Demand **Spring:** Demand

**SOC 410 Gerontology: Policy and Practice (4)****Spring:** All Years

4-6 hours a week will involve field experience working in a facility involving elderly care. Two hours a week will involve in-class discussion of the field experience as well as an examination of social policies relating to the elderly, including Social Security, Older Americans' Act, Medicare, and Medicaid. **Prerequisite:** SOC 308

**SOC 412 [C] Sociology of Complex Organizations (3)****Fall:** All Years

Analyzes large-scale bureaucratic organizations. Topics include: the characteristics of bureaucracy; the uses of power by organizations; the effectiveness of organizations; and the impact of organizations on societal change. **Prerequisite:** SOC 110

**SOC 414 Symbolic Interactionism (3)****Fall:** Demand **Spring:** Demand

This seminar deepens and extends the themes and ideas initially introduced in Sociology 205. Current issues in symbolic interactionism as well as application of the perspective to the students' concerns will be emphasized. **Prerequisite:** SOC 205

**SOC 416 Violence in the Family (3)****Fall:** All Years

Application of the sociological perspective to the following topics: family violence as an emergent social problem; physical and sexual abuse of children; dating, marital, and sibling violence; societal-level "solutions."

**Prerequisite:** SOC 320**SOC 416R Recitation (1)****Fall:** Demand**SOC 416W Writing Intensive (1)****Fall:** Demand**SOC 418 Sociology of Education (2)****Spring:** Demand

Examines societal factors and school structures that affect learning in primary and secondary schools and in higher education. Focuses on the effects of social class, sex differences, individual abilities, and the structure of the classroom and the school. Examination of inequality in education as it applies to specific ethnic groups and social classes will be considered.

**Prerequisite:** SOC 110**SOC 450 Issues in Sociology (4)****Spring:** All Years

Examines some of the most prominent theoretical and substantive issues identified by sociologists since the end of World War II. Course will include a major paper and a seminar presentation. **Prerequisite:** SOC 211

**SOC 469 Internship in Sociology (1-3)****Fall:** All Years **Spring:** All Years

Credits may not apply to the minimum required for the sociology major.

**SOC 490R Recitation (1)****SOC 490W Writing Intensive (1)****SOC 497 Readings in Sociology (1-3)****Fall:** All Years **Spring:** All Years

A program of advanced readings in some topic under the supervision of an instructor. May be repeated to a maximum of 4 credits.

**Spanish****SPAN 100 Selected Emphasis in Spanish: Beginning Level (2)****Fall:** Demand **Spring:** Demand

Introductory course that focuses on specific objectives, applications, interests or the acquisition of certain language skills, e.g., listening comprehension, reading, and writing. May be repeated. Not applicable toward the major or minor program in Spanish.

**SPAN 101 [E] Beginning Spanish I (4)****Fall:** All Years **Spring:** Demand

Fundamentals of Spanish. Development of the basic language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Culture and language structure are also important components of the course. Language laboratory practice required. Not applicable toward the major or minor in Spanish.

**SPAN 102 [E] Beginning Spanish II (4)****Fall:** Demand **Spring:** All Years

Fundamentals of Spanish. Development of the basic language skills of listening, speaking, reading, and writing with an emphasis on oral proficiency. Culture and language structure are also important components of the course. Language laboratory practice required. Not applicable toward a major or minor in Spanish.

**Prerequisite:** SPAN 101**SPAN 190 Topics in Spanish Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Spanish language, literature, and culture. May be repeated since content may vary.

**SPAN 201 [E] Intermediate Spanish I (4)****Fall:** All Years

Continued practice and review of the fundamentals of listening, speaking, reading, and writing. Classroom emphasis on oral skills. Readings on culture. Language laboratory as required by instructor.

**Prerequisite:** SPAN 102**SPAN 202 [E] Intermediate Spanish II (4)****Spring:** All Years

Continued practice and review of the fundamentals of listening, speaking, reading, and writing. Classroom emphasis on oral skills. Readings on culture. Language laboratory as required by instructor.

**Prerequisite:** SPAN 201

**SPAN 290 Topics in Spanish Language Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Spanish language, literature, and culture. May be repeated since content may vary.

**SPAN 297 Independent Study in Spanish: Intermediate Level (1-2)****Fall:** Demand **Spring:** DemandSelected project as agreed upon by student and instructor. May be repeated for a total of 4 credits. Requires approval by department chair upon presentation of proposal. **Prerequisite:** SPAN 201**SPAN 301 [E] Advanced Spanish Grammar (4)****Fall:** All Years

Intensive study and practice of Spanish grammar, vocabulary, and writing.

**Prerequisite:** SPAN 202**SPAN 302 [E] Spanish Conversation and Composition (4)****Spring:** All YearsIntensive practice in conversation, composition and stylistics for the development of both oral and written proficiency. Includes extensive reading of graded and culturally authentic materials. **Prerequisite:** SPAN 301**SPAN 311 [D1] Introduction to Spanish Literature (4)****Fall:** All Years

Students learn the background of the literary genres and the terms used to study and explain them through close reading and analysis. The periods of Iberian and Latin American Literature are presented, giving students a historical context for their studies.

**Prerequisite:** SPAN 301**SPAN 312 [D1] Survey of Iberian Literature (4)****Spring:** All Years

Analysis and discussion of major works of Iberian literature from one or more of the following periods: 1) origins to 1800; 2) 1800-1936; 3) 1936 to present.

**Prerequisite:** SPAN 311**SPAN 314 [F] Survey of Latin American Literature (4)****Spring:** Even YearsAnalysis and discussion of major works of Latin American Literature from one or more of the following periods: 1) Origins to 1800; 2) 1800 to 1936; 3) 1936 to present. **Prerequisite:** SPAN 311**SPAN 390 Topics in Spanish Language, Literature, and Culture (1-4)****Fall:** Demand **Spring:** Demand

Topics in Spanish language, literature, and culture. May be repeated since content may vary.

**SPAN 401 Advanced Conversation and Composition (3)****Fall:** All Years

Advanced composition with emphasis on syntax and stylistics. Conversational activities that are intended to help students improve their oral proficiency.

**Prerequisite:** SPAN 302**SPAN 402 Survey of Spanish Linguistics (3)****Spring:** All Years

Introduction to linguistics of Spanish: phonetics, phonology, morphology, syntax, semantics, history of the Spanish language, philology, dialectology, sociolinguistics, and psycholinguistics.

**Prerequisite:** SPAN 302**SPAN 411 Genres and Themes of Iberian/Latin American Literature (3)****Fall:** Even Years

Analysis and discussion of genres and/or themes from Iberian and/or Latin American Literature.

**Prerequisite:** SPAN 311**SPAN 412 Periods and Authors of Iberian/Latin American Literature (3)****Fall:** Odd Years

Analysis and discussion of major periods and/or authors from Iberian and/or Latin American Literature.

**Prerequisite:** SPAN 311**SPAN 421 Iberian Culture and Civilization (3)****Spring:** Even Years

Coursework helps students develop awareness and understanding of the culture of Spain through the study of historical and geographical facts, art, political life, and general customs of the people.

**Prerequisite:** SPAN 301 OR SPAN 311**SPAN 422 Latin American Culture and Civilization (3)****Spring:** Odd YearsCoursework helps students develop awareness and understanding of the cultures of Latin America through the study of historical and geographical facts, art, political life, and general customs of the people of Latin America. **Prerequisite:** SPAN 301**SPAN 490 Special Topics in Spanish Language, Literature or Culture (3)****Fall:** Demand **Spring:** DemandIn-depth study of a selected topic in Spanish. May be repeated for credit. Applicable toward the Spanish major or minor. **Prerequisite:** SPAN 311**SPAN 497 Independent Study in Spanish: Advanced Level (1-2)****Fall:** Demand **Spring:** Demand

Selected project as agreed upon by student and instructor. May be repeated for a total of 4 credits.

Requires approval of department chair upon presentation of proposal. **Prerequisite:** SPAN 301 OR SPAN 311



**SPAN 498 Senior Project (2)****Spring:** All Years

Individualized project designed for summation and integration of the undergraduate curriculum. Student will work with the instructor on designing and preparing a senior portfolio and preparing for an oral summative examination on the portfolio. Additional reading of primary and secondary sources required.

**Prerequisite:** SPAN 302**Special Education****SPED 320 Educational Services for Individuals with Exceptionalities (3)****Fall:** All Years **Spring:** All Years

Introduction to the recognition, incidence and educational needs of individuals with exceptionalities. A wide range of educational services are studied with emphasis on the shared responsibility of all professionals in education and related services.

**SPED 412 Mental Retardation (3)****Fall:** All Years

Overview of the definitions, characteristics, associated disabilities and medical aspects of persons with cognitive disabilities. **Prerequisite:** SPED 320

**SPED 413 Instructional Strategies (3)****Fall:** All Years **Spring:** All Years

Curriculum planning and classroom teaching techniques for students with disabilities will be examined. Topics will include adaptation of instruction, assessment and designing individualized educational plans, as well as various content and learning problems.

**Prerequisite:** SPED 320**SPED 417 Educating Students with Severe Disabilities (3)****Spring:** All Years

Examination of the definitions, characteristics, instructional methods/techniques, and educational programming for learners with severe disabilities. Also explored are typical and atypical motor development with mobility techniques and prosthetic and technical devices. **Prerequisite:** SPED 412 OR SPED 419

**SPED 419 Biomedical Aspects of Physical and Health Disabilities (3)****Fall:** All Years

This course focuses on physical and health disabilities including medical aspects, terminology, human anatomy, physiology, and secondary health care issues. Specific condition needs will be addressed such as, managing personal physical care, first aid techniques, and evacuation procedures. **Prerequisite:** SPED 320

**SPED 420 Education of Diverse Learners (2)****Fall:** All Years **Spring:** All Years

Introduction to the recognition of diverse learning and educational needs of students. A range of curriculum, educational services, and adaptations for students with diverse needs will be studied with emphasis on the shared responsibility of all educational professionals.

**SPED 421 The Gifted Child (2)****Fall:** Demand **Spring:** Demand

Definition, identification, and current school program for the child with superior ability or special talents.

**Prerequisite:** SPED 320**SPED 422 Curriculum and Methods for the Gifted (2)****Fall:** Demand **Spring:** Demand

Exploration of ways to construct a curriculum suitable for the education of gifted students at elementary and secondary levels. **Prerequisite:** SPED 421

**SPED 423 Young Children with Disabilities and Their Families (3)****Fall:** All Years

Examination of the program models and approaches to services for young children with disabilities and their families. Research on the efficacy of early intervention and aspects of family systems is reviewed. Current issues in service provision, teaming, and individual program plans are also included in the course.

**Prerequisite:** SPED 320**SPED 424 Assessment in Early Childhood Special Education (3)****Spring:** All Years

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

Approaches to identification, screening, assessment selection and programming are explored.

**Prerequisite:** SPED 423**SPED 426 Infant Strategies (3)****Spring:** All Years

This course overviews knowledge and skills necessary to be effective professionals in working with families and infants and toddlers with disabilities and those at risk for disabilities. Emphasis is placed on parent-professional collaboration, interagency and interdisciplinary planning, and design of effective individual family service plans.

**Prerequisite:** SPED 423**SPED 427 Instructional Strategies: Preschool (3)****Fall:** All Years

The focus of this course will be knowledge and skills required to design and implement individual and group instructional programs for children with special needs from 3-6 years. The development of instructional objectives and systematic teaching strategies in motor, cognitive, social, communication and self-care skills will be emphasized. **Prerequisite:** SPED 423

**SPED 429 Classroom Modifications/Adaptations (2)****Fall:** All Years **Spring:** All Years

Introduction to the recognition of diverse learning and educational needs of elementary/middle school students. A range of curriculum strategies, modifications and adaptations for students with diverse needs will be studied with emphasis on successful learning experiences for all students. *Prerequisite:* SPED 320

**SPED 442 Creative Activities for Individuals with Disabilities (2)****Fall:** Demand **Spring:** Demand

Creative activities for individual with disabilities; practical experiences in the areas of art, music, drama and their interrelationships. *Prerequisite:* SPED 320

**SPED 443 Consultation and Collaboration in Special Education and Human Services (3)****Fall:** All Years **Spring:** All Years

Understanding and development of professional consultation and collaboration skills to initiate and apply appropriate and effective teaming techniques for assessment, intervention, and evaluation via transdisciplinary approaches for special needs students/clients and their caregivers. Concurrent with practicum or student teaching.

**SPED 445 Remedial and Corrective Reading (3)****Fall:** All Years **Spring:** All Years

The causes, assessment, and correction of reading difficulties are analyzed. Specific strategies poor readers can use to read better are described. Explicit instructional methods are presented.

**SPED 446 Remedial and Corrective Reading Clinic (1)****Fall:** Demand **Spring:** Demand

Supervised practice in remediating children with reading disabilities at the primary, intermediate, and secondary level. *Prerequisite:* SPED 445

**SPED 447 Physical and Health Disabilities (3)****Fall:** All Years

This course is designed to provide up-to-date information on the needs of the students in school who have experienced periods of poor health or physical adversity. This course provides an understanding of how students' illnesses or disabling condition(s) affect their everyday lives.

**SPED 451B Student Teaching: SLD (8-10)****Fall:** All Years **Spring:** All Years

Student teaching in public school elementary level setting for pupils with specific learning disabilities. Students will spend 320-400 hours in schools.

*Prerequisite:* SPED 464, SPED 475**SPED 451C Student Teaching: E/BD (8-10)****Fall:** All Years **Spring:** All Years

Student teaching in public school self-contained setting for pupils with Emotional/Behavioral Disorders. Students will spend 320-400 hours in schools.

*Prerequisite:* SPED 464, SPED 473, SPED 478**SPED 451D Student Teaching: Developmental Disabilities (8-10)****Fall:** All Years **Spring:** All Years

Student teaching in public school elementary or secondary setting for pupils with mild/moderate disabilities. Students will spend 320-400 hours in schools. *Prerequisite:* SPED 413, SPED 456, SPED 467D

**SPED 451E Student Teaching: ECSE (8-10)****Fall:** All Years **Spring:** All Years

Student teaching in public school setting for young children with disabilities. Students will spend 320-400 hours in schools. *Prerequisite:* SPED 426, SPED 427

**SPED 451P Student Teaching: Physical and Health Disabilities (8-10)****Fall:** All Years **Spring:** All Years

Student teaching in public school elementary or secondary setting for pupils with physical/health disabilities. Students will spend 320-400 hours in schools. *Prerequisite:* SPED 447, SPED 413, SPED 467P

**SPED 456 Functional Assessment and Curriculum (3)****Spring:** All Years

The purpose of this course is to develop an understanding of individuals with developmental disabilities as well as a functional, life-skills orientation to assessment and curriculum. Students will perform both informal and formal assessment, write an assessment report, and develop curriculum which allows for integration of students with identified cognitive impairments. *Prerequisite:* SPED 412, SPED 419

**SPED 456L Field Experience: Mental Retardation (2)****Spring:** All Years

Field experience in assessment and curriculum development with a functional and inclusionary focus. Students will spend 200 hours in schools. Should be taken concurrently with SPED 456.

**SPED 459 Communication Programming for Persons with Severe Disabilities (3)****Fall:** All Years

This course covers issues related to communication program and decision-making models for communication programming for individuals with severe disabilities. The emphasis is on assessing an individual's communication skills, selecting appropriate components for the communication system and planning intervention strategies. *Prerequisite:* SPED 412 OR SPED 419

**SPED 461 Learning Disabilities (3)****Fall:** All Years **Spring:** All Years

An introduction to definition, assessment, characteristics, and educational strategies for children and youth with specific learning disabilities.

**Prerequisite:** SPED 320**SPED 463 Assessment Strategies (3)****Fall:** All Years **Spring:** All Years

Assessment of scholastic achievement and aptitude, social behavior, and instructional effectiveness through the use of norm referenced individualized test instruments and informal instructor designed procedures. Course includes report writing, establishment of objectives, participation in the development of IEPs, and review of basic statistical and measurement concepts. **Prerequisite:** SPED 320, SPED 445, SPED 471

**SPED 463L Assessment Lab (1)****Fall:** All Years **Spring:** All Years

Field experience in assessment and remediation of students with disabilities. Students will spend 150 hours in schools. Taken concurrently with SPED 463

**SPED 464 Educational Planning and Adaptation for Students with Learning Problems (3)****Fall:** All Years **Spring:** All Years

Educational and transitional adaptations for learning disabled or emotional/behavioral disordered secondary students based on individual cognitive, affective, and behavioral characteristics. **Prerequisite:** SPED 463

**SPED 467A Secondary Practicum: Mild Disabilities (3)****Fall:** All Years **Spring:** All Years

Directed practicum experience in secondary level special education resource room setting. 225 hours field experience. Taken concurrently with SPED 464

**SPED 467D Practicum: Developmental Disabilities (3)****Fall:** All Years **Spring:** All Years

Directed practicum in public school elementary or secondary setting for pupils with developmental disabilities. Students will spend 225 hours in schools.

**Prerequisite:** SPED 413**SPED 467E Practicum: Young Child Disabilities (2)****Fall:** All Years **Spring:** All Years

Directed practicum experience in early childhood special education. **Prerequisite:** SPED 423

**SPED 467I Practicum: Infant/Interagency Services (2)****Fall:** All Years **Spring:** All Years

Field experience in inter-agency planning and service delivery to infants and toddlers with disabilities and their families. Experience in assessment and individual plan development are included. **Prerequisite:** SPED 424, SPED 426

**SPED 467P Practicum: Physical and Health Disabilities (3)**

Directed practicum in a public school elementary or secondary setting for pupils with physical or health disabilities. Students will spend 225 hours in schools.

**Prerequisite:** SPED 447**SPED 468 Student Teaching II (4)****Fall:** Demand **Spring:** Demand

Directed student teaching experience in an SLD, EB/D, MMH, MSMH, or ECSE program. Students will spend 200-300 hours in schools. Previous fulltime student teaching required

**SPED 468B Student Teaching II: SLD (4)****Fall:** All Years **Spring:** All Years

Directed student teaching experience in an SLD program. Students will spend 200-300 hours in schools.

**Prerequisite:** SPED 464, SPED 475**SPED 468C Student Teaching II: EBD (4)****Fall:** All Years **Spring:** All Years

Directed student teaching experience in an EBD program. Students will spend 200-300 hours in schools.

**Prerequisite:** SPED 464, SPED 478**SPED 468D Student Teaching II: Developmental Disabilities (4)****Fall:** All Years **Spring:** All Years

Student teaching in a public school elementary or secondary setting for pupils with developmental disabilities. Students will spend 200-300 hours in schools. **Prerequisite:** SPED 467D

**SPED 468E Student Teaching II: ECSE (4)****Fall:** All Years **Spring:** All Years

Directed student teaching experience in an ECSE program. Students will spend 200-300 hours in schools.

**Prerequisite:** SPED 424, SPED 426**SPED 468P Student Teaching II: Physical and Health Disabilities (4)****Fall:** All Years **Spring:** All Years

A second student teaching experience in a public school elementary or secondary setting for pupils with physical and/or health disabilities. Students will spend 200-300 hours in schools. **Prerequisite:** SPED 447, SPED 467P

**SPED 469 Internship (3-10)****Fall:** Demand **Spring:** Demand

Directed field experience working with individuals with disabilities.

**SPED 470 Transitional Planning (3)****Fall:** All Years **Spring:** All Years

Transitional planning for secondary students with disabilities including transitional assessment, programming and planning. Students will also acquire knowledge of post secondary service options and funding sources. **Prerequisite:** SPED 320

**SPED 471 Behavior and Environment Management (3)****Fall:** All Years **Spring:** All Years

Application of learning theory and applied behavior analysis to teaching and to the problem of altering maladaptive behavior. Specific variables related to classroom and community based instruction of individuals with a variety of learning characteristics are included. *Prerequisite:* SPED 320

**SPED 472 Educational Diagnosis and Programming (3)****Fall:** Demand **Spring:** Demand

Principles and practices of diagnostic-prescriptive programming for children with disabilities.

*Prerequisite:* SPED 320**SPED 473 Emotional/Behavioral Disorders (3)****Fall:** All Years

Identification, assessment, and programming for students with Emotional/Behavioral Disorders. Course includes operation of program models of educational and other treatment agents. *Prerequisite:* SPED 320

**SPED 474 Management of Challenging Behavior (2)****Fall:** Demand **Spring:** Demand

Student will demonstrate an understanding of how nonaversive intervention strategies can be used to manage challenging behavior. *Prerequisite:* SPED 471

**SPED 475 Informal Assessment/Teaching Strategies: Students with Learning Disabilities (3)****Fall:** All Years **Spring:** All Years

Informal assessment techniques and teaching strategies across the core content areas and in social skills for elementary and secondary students with specific learning disabilities. *Prerequisite:* SPED 461

**SPED 478 Educational Interventions: Emotional/Behavioral Disorders (3)****Spring:** All Years

Program design, intervention techniques, and management strategies for student with Emotional/Behavioral Disorders. *Prerequisite:* SPED 473

**SPED 490 Special Topics (1-3)****Fall:** Demand **Spring:** Demand

Advanced treatment of selected topics.

*Prerequisite:* SPED 320**SPED 494 Legal/Social Foundations of Special Education (3)****Fall:** All Years **Spring:** All Years

This course overviews the educational, sociological, legal, and historical frameworks of special education services within the context of public school systems. It includes research on the efficacy of special education; national and state reform and renewal efforts in general and environment professional preparation, litigation and legislation, and best practices in curriculum for all learners. Issues related to families in a changing educational system are also addressed.

*Prerequisite:* SPED 320**SPED 495 Special Problems (1-3)****Fall:** Demand **Spring:** Demand

Directed field experience, reading, or research in special education. May be repeated up to 6 credits.

**Speech****SPCH 100 [E] Speech Communication (3)****Fall:** All Years **Spring:** All Years

The theory and practice of oral communication in public and interpersonal situations, stressing both content and delivery.

**SPCH 105 [E] Beginning Oral Interpretation (3)****Fall:** All Years **Spring:** All Years

The theory and practice of the oral presentation of literature, critical listening and constructive criticism; performances include poetry, prose and drama.

**SPCH 140 Dance for the Stage I (3)****Fall:** All Years

A beginning course in dance technique with units in jazz, ballet, tap, and musical theatre forms.

**SPCH 160 Theatre Practicum (1)****Fall:** All Years **Spring:** All Years

Training in the technical phases of theatre production: experience in set construction, painting, properties, backstage organization, light, sound, and costumes. Participation in theatrical production.

**SPCH 161 Forensics (1)****Fall:** All Years **Spring:** All Years

Practical experience in public speaking, oral interpretation, and/or Lincoln-Douglas debate for inter-collegiate tournaments and on-campus activities.

**SPCH 162 R/TV/Film Practicum (1)****Fall:** All Years **Spring:** All Years

Practical experience in radio, television, or film activities.

**SPCH 210 [E] Introduction to Communication Theory (3)****Spring:** All Years

Through lecture, writing, and discussion, students will explore the discipline of communication including basic theories of interpersonal, group, intercultural, and organizational communication.

**SPCH 211 [E] Argumentation and Debate (3)****Fall:** All Years

The course will present the principle theories and skills of argumentation and debate on questions of fact, value and policy.

**SPCH 220 [D1] Introduction to Theatre (3)****Fall:** All Years **Spring:** All Years

Critical analysis of great plays and live theatre performances focusing on the basics of dramatic theory, an appreciation of theatrical styles, and a deeper understanding of dramatic themes.

**SPCH 230 [E] Principles of Acting (3)****Fall:** All Years **Spring:** All Years

Basic terminology and techniques used by the actor in creating a role for the stage.

**SPCH 232 Stage Make-Up (2)****Fall:** Demand **Spring:** Demand

Techniques and styles of stage make-up used in stage productions.

**SPCH 235 Principles of Stage Directing (3)****Fall:** All Years

The foundation course in stage direction, a core requirement for all majors. The theory and practice of directing: casting, blocking, composition, picturization, movement, rehearsal and performance.

**Prerequisite:** SPCH 230**SPCH 236 Theatre Arts Management (2)****Fall:** Demand **Spring:** Demand

The study of sound fiscal operation, production cost preparation, public relations and promotion, and laws affecting theatre operations. Offered on demand.

**SPCH 240 Dance for the Stage II (3)****Spring:** All Years

An intermediate course in dance technique.

**Prerequisite:** SPCH 140**SPCH 255 Technical Theatre Methods (3)****Fall:** All Years

The theory and practice of working with stage equipment; the methods and procedures of scenery construction, stage rigging, and scene shifting.

**SPCH 270 Introduction to Telecommunications (3)****Fall:** All Years

An introduction to telecommunications theory, appreciation, and criticism and its impact on the speech communication process. Speech communication is studied through the interrelationships among various functional and aesthetic elements of radio, television, and film.

**SPCH 272 Television Production (3)****Fall:** All Years **Spring:** All Years

Theory of and practical experience with television equipment in studio and remote productions.

**SPCH 280 [D1] History of Film (3)****Fall:** All Years

A chronological approach to the artistic and technical development of the American motion picture medium. Influential films are viewed and discussed.

**SPCH 281 [D] Film Appreciation (3)****Spring:** All Years

A critical approach to artistically significant motion pictures, motion picture directors, and genres. Analysis of film content, structure, and directorial technique is presented through screenings and discussion.

**SPCH 283 Film and the Stage (3)****Fall:** Demand **Spring:** Demand

A comparative analysis of major dramas with their screen versions. Emphasis is on the aesthetic and interpretive similarities and differences in the two art forms. Offered on demand.

**SPCH 284 Beginning Filmmaking (3)****Spring:** Even Years

Theory and practice for the pre-professional filmmaker. Students learn to operate basic motion picture equipment. Projects include planning, shooting, and editing short films.

**SPCH 300 [F] Intercultural Communication: U.S./Asia (3)****Spring:** Odd Years

Examines selected major theories of intercultural communication and applies them in analyzing, understanding and comparing the communication practices in the United States with those in the Far East. Focuses upon how culture and society affect the specific rhetorical communication tactics and processes as well as non-verbal communication practices.

**SPCH 305 Advanced Oral Interpretation (3)****Spring:** Odd Years

The analysis and performance of literary forms and styles including techniques of group interpretation of literature. **Prerequisite:** SPCH 105 OR SPCH 230

**SPCH 308 [E] Small Group Communication (3)****Fall:** All Years **Spring:** All Years

Presents theories of small group communication, group dynamics, communication patterns, role norms and leadership. Class designed around two fundamental components: experiential and cognitive. A substantive group research and problem-solving assignment is included. **Prerequisite:** SPCH 100

**SPCH 310 [E] Rhetorical Theory (3)****Fall:** All Years

Examines the theory of rhetoric from its beginnings in classical times to its contemporary development.

**SPCH 311 [E] Principles of Persuasion (3)****Spring:** All Years

This course will explore the logical and psychological theories of persuasion as they occur in a range of communication situations. **Prerequisite:** SPCH 100

**SPCH 312 [E] Rhetorical Criticism (3)****Spring:** All Years

Criteria for evaluating the problems, process, and effects of individual and/or group efforts to communicate.

**SPCH 315 Interpersonal Communication (3)****Spring:** All Years

This course is designed to explore various communication theories, based on the development of self and the development and maintenance of relationships with others. *Prerequisite:* SPCH 100 OR SPCH 210

**SPCH 321 [D1] Theatre in America (3)****Spring:** All Years

Critical analysis of American plays in performance focusing on American dramatic themes, theatre history, and production styles.

**SPCH 322 [D1] Development of Drama I (3)****Fall:** All Years

Theatre and drama from Classical Greece through the European Renaissance. Topics include a selection of great plays, significant playwrights, theatre buildings, staging and technical innovations, and Aristotelian criticism.

**SPCH 323 [D1] Development of Drama II (3)****Spring:** All Years

Theatre and drama from the 17th century through the modern era. Topics include a selection of great plays, significant playwrights, theatre buildings, staging and technical innovations, and artistic and cultural movements. *Prerequisite:* SPCH 322

**SPCH 324 Musical Theatre History (3)****Fall:** All Years

Musical Theatre productions past and present are examined and critically evaluated. An analysis of the various forms of musicals with an emphasis on the libretto, lyrics, and production elements.

**SPCH 325 [F1] African American Theatre (3)****Fall:** Odd Years

Survey of selected plays by African American writers from the 19th and 20th centuries. Focus on aesthetic and interpretative dimensions grounded in African American historical and cultural contexts. MCS 210 or 211 or SPCH 220 are highly recommended as prerequisites.

**SPCH 331 Scene Study (3)****Spring:** All Years

As a follow-up to Principles of Acting, students in Scene Study will rehearse and perform scenes from the dramatic canon of great plays. The scene work will be performed as an actors' lab with regular feedback from the instructor and fellow classmates.

*Prerequisite:* SPCH 230**SPCH 332 Movement and Voice for the Actor (3)****Fall:** All Years

Instruction in voice through study of breathing and alignment, IPA and applications of IPA to stage dialects. Movement instruction in Alexander Technique, basic stage combat and circus skills. *Prerequisite:* SPCH 331

**SPCH 335 Advanced Stage Directing (3)****Fall:** All Years

Advanced study of techniques of direction through the use of movement, picturization, tempo and script analysis. *Prerequisite:* SPCH 235

**SPCH 340 Principles of Choreography (3)****Fall:** Odd Years

Adaptation of choreographic assignments, in-class critiques, and analyses permit students to evolve a personal, original style appropriate to the non-concert dance form.

**SPCH 355 Scene Design I (3)****Spring:** All Years

The fundamentals of designing scenery for the stage: process of design, elements of design, and execution procedure. *Prerequisite:* SPCH 255

**SPCH 356 Advanced Technical Theatre Methods/ Lighting (3)****Fall:** Demand **Spring:** Demand

Acquiring artistic and technical skills needed for designing scenery and lighting for the theatre; practical experience in design presentation.

**SPCH 360 Dramatic Production I (1-4)****Offered summer only**

Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audiences. May be repeated by undergraduates.

**SPCH 361 Advanced Forensics (1)****Fall:** All Years **Spring:** All Years

Practical experience in tournament management and/or coaching. *Prerequisite:* SPCH 161

**SPCH 362 Advanced R/TV/Film Practicum (1-2)****Fall:** All Years **Spring:** All Years

Advanced practical experience in radio, television, and film activities. *Prerequisite:* SPCH 162

**SPCH 372 Television Directing (3)****Spring:** All Years

Theory and practice in methods of directing TV talent, blocking cameras and sets, and directing TV crews. Exercises include TV entertainment, news, and instructional productions. *Prerequisite:* SPCH 272 OR MC 272

**SPCH 373 Radio-Television Performance (3)****Fall:** All Years

Theory and practice in the professional areas of radio and television performance, from auditioning through final tapings. *Prerequisite:* SPCH 272 OR MC 272

**SPCH 374 Producing for Television (3)****Fall:** All Years **Spring:** All Years

Theory and practice in the pre-production and production aspects of television. Includes message/audience analysis, script preparation, studio and crew management in producing for a variety of television formats. **Prerequisite:** SPCH 372 OR MC 372

**SPCH 382 Film and the Novel (3)****Fall:** All Years

A comparative analysis of major novels with their screen versions. Emphasis is on the aesthetic and interpretive similarities and differences in the two art forms.

**SPCH 385 [D] International Cinema (3)****Spring:** Odd Years

A study of major world cinemas, including influential filmmakers, screen personalities, and motion pictures. Important films are screened, discussed, and critically evaluated.

**SPCH 400 Advanced Public Speaking (3)****Spring:** All Years

The application and practice of public speaking skills in a variety of types, styles and situations.

**Prerequisite:** SPCH 100**SPCH 415 Teaching Methods: Speech and Theatre (3)****Spring:** All Years

Methods of conducting high school speech and theatre courses and activities, structuring of curriculum, selecting and developing course materials, and methods of evaluation.

**SPCH 416 Special Projects in Speech Communication (1-3)****Fall:** Demand **Spring:** Demand

Advanced individualized creative or investigative work in a particular phase of speech communication. May be taken more than once if content is substantially different. Offered on demand.

**SPCH 425 Contemporary Playwrights (3)****Spring:** Even Years

Significant playwrights and their works from the last 25 years. May be elected twice when the reading lists are substantially different.

**SPCH 430 Acting Styles (3)****Spring:** All Years

Principles and problems in the acting of major historical and theatrical styles.

**SPCH 434 Special Projects in Theatre Arts (1-3)****Fall:** Demand **Spring:** Demand

Opportunity for the advanced student to do individual creative or investigative work in a particular phase of theatre. May be taken more than once if content is substantially different.

**SPCH 440 Dance Production (1)****Fall:** Demand **Spring:** Demand

The course explore theory and practice in the productions aspects of dance. Students in the class will be required to rehearse and perform dances choreographed by faculty or visiting guest artists.

**SPCH 450 Scene Design (3)****Fall:** Demand **Spring:** Demand

Explore different types of stage settings: different styles, designing for different types of theatre spaces, and different approaches to the genres of dramatic literature.

**Prerequisite:** SPCH 355, SPCH 356**SPCH 460 Dramatic Production II (1-4)**

Offered Summer Only

Play production techniques (acting and directing, technical theatre) through the process of staging weekly productions for summer theatre audience. May be repeated by undergraduate. **Prerequisite:** SPCH 360

**SPCH 469 Internship (3-12)****Fall:** Demand **Spring:** Demand**SPCH 472 Advanced TV Production (3)****Spring:** All Years

Produce a series of programs to be aired. Includes all levels from writing and casting through taping and post-production effects. **Prerequisite:** SPCH 374 OR MC 374

**SPCH 486 Techniques of Film Directing (3)****Fall:** Demand **Spring:** Demand

Theory and practice of developing artistic and technical skills in directing motion pictures. Major film-making projects are included in class activities.

**Prerequisite:** SPCH 281, SPCH 284**SPCH 490 Topics Courses (1-3)****Fall:** Demand **Spring:** Demand**SPCH 496 Senior Seminar (3)****Spring:** All Years

Capstone course for speech or theatre majors; proposal, completion, and presentation of individualized projects; interviewing skills; written exam integrating and applying knowledge from separate courses. Grade of "C" or better is required for graduation.

**SPCH 499 Topical Workshop (1-3)****Fall:** Demand **Spring:** Demand

This course is conducted in the workshop format. This course may be repeated when topics vary.

## Speech, Language, and Hearing Science

### **SLHS 101 Introduction to Speech-Language-Hearing Sciences (2)**

**Fall:** All Years **Spring:** All Years

The study of the basic processes of speech, language, and hearing, the normal development of speech and language in children, and the major speech, language, and hearing disorders.

### **SLHS 171 American Sign Language I (3)**

**Fall:** Demand **Spring:** Demand

An introduction to American Sign Language vocabulary and grammar, including issues of nonverbal communication through pantomime and body movement.

### **SLHS 172 American Sign Language II (3)**

**Fall:** Demand **Spring:** Demand

Continuation of SLHS 171 including communicating personal and family information, giving directions and descriptions, and asking questions.

**Prerequisite:** SLHS 171

### **SLHS 201 Phonetics (2)**

**Fall:** All Years

The production and perception of sounds of English speech; the use of the International Phonetic Alphabet; the application of the principles of phonetic analysis to oral communication.

### **SLHS 202 Anatomy and Physiology of Normal Speech and Hearing (3)**

**Spring:** All Years

The study of the anatomy and basic physiology of the speech and hearing mechanisms, and the major underlying scientific concepts.

### **SLHS 204 Language Development (4)**

**Fall:** All Years

Nature and normal development of cognitive, linguistic and social systems of language in children.

### **SLHS 271 Introduction to Audiology (2)**

**Spring:** All Years

The study of auditory anatomy and physiology and disorders of the auditory system.

### **SLHS 307 Acoustics and Instrumentation (2)**

**Spring:** All Years

Basic acoustic principles applied to speech and voice including basic instrumentation for the analysis, measurement and manipulation of acoustic events.

**Prerequisite:** SLHS 201

### **SLHS 321 Articulation and Phonological Disorders (4)**

**Fall:** All Years

The nature, etiology, assessment and treatment of disorders of articulation and phonological disorders.

**Prerequisite:** SLHS 101, SLHS 201

### **SLHS 322 Language Disorders in Preschool Children (4)**

**Spring:** All Years

The nature, etiology, and clinical management of language disorders in preschool children.

**Prerequisite:** SLHS 101, SLHS 204

### **SLHS 343 Clinical Procedures (3)**

**Fall:** All Years

Basic defining and recording of communication behavior, development of reporting skills to include lesson plans, report writing and conferring and consulting with clients, professionals. Includes supervised observation of clinical procedures applied to speech, language and learning disorders.

### **SLHS 347 Introduction to Augmentative and Alternative Communication (2)**

**Fall:** All Years

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

**Prerequisite:** SLHS 204

### **SLHS 372 Audiometry (3)**

**Fall:** All Years

Clinical and psychoacoustic measurement of hearing. Diagnostic variables related to hearing impairment; practice administering a basic clinical test battery.

**Prerequisite:** SLHS 271

### **SLHS 391 Research Methods in Speech-Language-Hearing Sciences (2)**

**Fall:** Odd Years

The study and application of research principles and methods in speech-language and hearing sciences.

### **SLHS 402 Neuroanatomy and Physiology of Communication (3)**

**Fall:** All Years

The study of central nervous system anatomy and physiology, with emphasis on communicative processes.

**Prerequisite:** SLHS 202

### **SLHS 421 Voice Science and Disorders (3)**

**Spring:** All Years

Study of vocal physiology and pathophysiology including the symptomatology, etiology, assessment, and management of organic and functional voice disorders.

**Prerequisite:** SLHS 201, SLHS 202, SLHS 307

### **SLHS 424 Fluency Disorders (3)**

**Fall:** All Years

A study of the nature and management of fluency disorders. **Prerequisite:** SLHS 202



**SLHS 446 Clinical Experience (3)****Fall:** All Years **Spring:** All Years

On-campus supervised clinical experience in speech/language pathology or audiology with children or adults. May be repeated. **Prerequisite:** SLHS 343

**SLHS 448 Program Management in Speech-Language Pathology (2)****Spring:** Even Years

Program management in speech-language pathology in various clinical settings including public schools, hospitals, and clinics. **Prerequisite:** SLHS 343

**SLHS 473 Rehabilitation Audiology (3)****Spring:** All Years

A survey of the principles of rehabilitative intervention for hard-of-hearing persons, children through adults. Special emphasis on role of amplification.

**Prerequisite:** SLHS 271**SLHS 490 Topical Seminar in Speech-Language-Hearing Sciences (1-3)****Fall:** Demand **Spring:** Demand

An examination of the literature on a selected topic of current interest.

**SLHS 496 Senior Project (1)****Fall:** All Years

An independent research project integrating three or more areas of study in speech, language, hearing processes or disorders. Requires public display of results in poster format with oral explanation.:

**SLHS 497 Individual Study (1-3)****Fall:** Demand **Spring:** Demand

Selected readings or a guided independent research project in some aspect of communication disorders. May be repeated for up to 6 credits.

**SLHS 499 Topical Workshop (1-3)****Fall:** Demand **Spring:** Demand**Technology****TECH 111 Technology and Society (2)****Spring:** All Years

Topics in this course include a brief history of industry and the major technologies since the industrial revolution; a study of the major occupations in the manufacturing, construction, mining, agriculture, printing and publishing, and transportation industries; and contemporary issues including futurology, technology assessment, ethics in the workplace, and technology, work, and leisure.

**TECH 113 Engineering Graphics/CAD (3)****Fall:** All Years **Spring:** All Years

Principles and applications of graphical communication, analysis, and visualization. Content includes design techniques, sketching, geometric construction, pictorials, and multiview drawings. Computer-Aided Drawing (CAD) in both 2D and 3D modes emphasizing visualization encompass 50 percent of class assignments.

**TECH 116 Computer-Aided Drafting (2)****Fall:** Demand **Spring:** Demand

An introductory course in CAD emphasizing applications in mechanical and architectural disciplines. Course content includes drawing creation, editing, and display techniques, layers, blocks, and attributes. Introduction of 3-D drawings, constructing surfaces, and rendering.

**TECH 128 Introduction to Construction Management (1)****Spring:** All Years

An overview of the construction industry which introduces the student to the duties and responsibilities of the professional construction manager. Lectures, field trips, and speakers will expose students to the fundamentals of construction techniques and methods employed by professionals in the industry with an emphasis on career opportunities.

**TECH 145 Introduction to Industrial Distribution (1)****Spring:** All Years

Industrial Distribution including definition, history, types of distribution, range of products, line of distribution, functions of and services provided by distributors, employment and professional advancement opportunities with industrial distributors, suppliers, and manufacturers. Brief overview of global wholesale distribution channel with emphasis on changing environment.

**TECH 150 Survey of Graphic Communications Industry (3)****Fall:** All Years

A survey of various graphic communication production processes and careers. The survey topics include desktop publishing, design, multimedia, commercial printing, photography, and television.

**TECH 190 Topics in Technology (1-3)****Fall:** Demand **Spring:** Demand

Topical study of a particular technology problem, subject, or situation not offered in the regular curriculum. May be repeated for credit if offered under different title.

**TECH 201 Construction Materials and Processes (3)****Fall:** All Years

Theories and principles of commercial construction materials and methods will be studied. The course lectures will be structured in accordance with the Construction Specifications Index (CSI) format of work divisions. Although the lectures will cover all 16 CSI divisions, special attention will be paid to divisions which pertain to sitework, concrete, masonry, steel, and wood.

**TECH 215 Architectural Planning and Codes (3)****Spring:** All Years

An analytical study of residential and commercial building plans and specifications. Coursework will focus on the layout, design, and the selection of building materials for a typical construction project. Other topics including building codes, zoning ordinances, and energy efficiency will be emphasized.

**TECH 216 3D CAD (3)****Fall:** All Years **Spring:** All Years

3D Modeling and Animation is a course about building 3D CAD models for a variety of disciplines. Forensic animators use these models to demonstrate how accidents happen. Engineers use them to show how machines and systems work. Architects use them to let their clients participate in the design process. Video game developers use them to create virtual worlds populated with people, places, and things that exist only in the imagination. **Prerequisite:** TECH 116 OR TECH 113

**TECH 220 Wood Processes (2)****Fall:** Demand

Basic processes, safety, tool and machine selection for wood production techniques. Planning and practice for machine woodworking in industry.

**TECH 223 Statics for Technologists (3)****Fall:** Odd Years

Elementary principles of statics utilizing algebra, trigonometry, and analytical geometry. Material includes force vectors, static equilibrium, simple structures, friction effects, centroids. Will not transfer to engineering programs. **Prerequisite:** MATH 143

**TECH 225 Strengths of Materials for Technologists (3)****Spring:** Even Years

Elementary principles of strengths of materials utilizing algebra, trigonometry, and analytical geometry. Material includes stress and strain, torsion, shear and bending, deflections, combined stresses, beam design in steel and wood. Will not transfer to engineering programs.

**Prerequisite:** TECH 223**TECH 230 Manufacturing Processes (3)****Fall:** All Years

A survey course including information on traditional and non-traditional manufacturing processes. Hands-on-lab experiences in metal, wood, synthetics, and welding processes.

**TECH 231 Welding Processes (2)****Fall:** Demand

An introduction to welding processes, safety, and applications in industry. Lab experiences in a variety of welding processes.

**TECH 232 Machining Processes (2)****Fall:** Demand

An introduction to metal machining processes including machine operations and safety. Industrial applications and lab experiences with basic machine tools.

**TECH 252 Introduction to Desktop Publishing (3)****Fall:** All Years **Spring:** All Years

Desktop publishing to include production of graphics, illustrations, typesetting, camera-ready art by using various computer platforms and software packages. Main emphasis is on how and why this equipment is used in the graphic communications industry. Not open to student having completed MC 220.

**TECH 256 Introduction to Multimedia (3)****Spring:** All Years

Exploration of different modes of multimedia production to include computer based music, television, film, and the Internet.

**TECH 257 Advanced Desktop Publishing (3)****Fall:** All Years **Spring:** All Years

This course will build on the student's basic knowledge of desktop publishing, along with the applications of various software and hardware used in the preparation of material for a visual presentation. Included will be photographic and presentation programs using the Macintosh and PC platforms. **Prerequisite:** TECH 252

**TECH 273 Electrical/Electronic Circuits (4)****Fall:** Demand

A study of electrical and electronic devices and circuits. Content includes the principles of voltage, current, resistance, inductance, capacitance transformers, an analysis of DC and AC circuits, diodes, transistors, rectifiers, amplifiers, and oscillators.

**Prerequisite:** MATH 143**TECH 274 Survey of Electronics Technology (4)****Fall:** All Years

This course surveys the major areas of electronics technology, with an emphasis on digital technology. Content includes a study of electrical circuits, electronic circuits, and digital devices, circuits, and systems.

**TECH 275 Digital Circuits (3)****Fall:** Demand

Course content includes binary mathematics, gates, digital logic IC families, sequential logic circuits, combinational logic circuits, computer memory, CPUs/MPUs, I/O peripherals, and interfacing.

**Prerequisite:** TECH 273

**TECH 285 Fluid Power Technology (3)****Spring:** All Years

Introduction to the theory and applications of hydraulic and pneumatic components and systems. Lab experience with fluid power circuits.

**TECH 290 Topics in Technology (1-3)****Fall:** Demand **Spring:** Demand

Topical study of a particular technology problem, subject, or situation not offered in the regular curriculum. May be repeated for credit if offered under a different title.

**TECH 316 3 D Animation (3)****Spring:** All Years

Study of animation techniques used in the graphic communications industry. Prime emphasis is on using 3D Studio Max software to design and animate scenes of various complexity. **Prerequisite:** TECH 216

**TECH 318 Technical Illustration (3)****Spring:** Demand

Camera-ready illustrations: pictorials, orthographics, schematics, and graphs for operations/maintenance manuals, parts identification, and marketing publications. Study of product support illustrations and documentation is a major focus.

**Prerequisite:** TECH 113**TECH 321 Construction Cost Analysis (3)****Spring:** All Years

This course will analyze a contractor's ability to bid, bond, and perform a construction project. Students will also set up and analyze a construction budget/cost control system that will effectively identify cost overruns and which can be used to bid future similar projects.

**Prerequisite:** ACCT 230**TECH 325 Construction Estimating I (3)****Fall:** All Years

Students will study basic principles and theories of estimating including quantity survey and pricing. From a set of working drawings, students will estimate the construction cost of a commercial building project. Students will learn the fundamentals of pricing an estimate. At the end of the semester, students are expected to know how to perform quantity surveys for estimates and the relationship of productivity to pricing.

**TECH 326 Mechanical/Electrical Systems (3)****Fall:** All Years

A study of mechanical and electrical construction, emphasizing principles of heating, cooling, ventilation, water supply waste disposal and electrical distribution. Temporary services and code requirements are analyzed. Lab activities cover basic applications and overview of product.

**TECH 328 Construction Planning and Scheduling (3)****Fall:** All Years

Theories and principles of construction planning and scheduling will be studied. Students will use the Critical Path Method as a primary technique of planning, scheduling, and monitoring work. "Primavera" scheduling software is utilized for class assignments.

**Prerequisite:** TECH 325**TECH 329 Construction Equipment and Methods (3)****Fall:** All Years

A study of planning, estimating, and managing performance of commonly recognized construction equipment. This course will stress the factors that govern or control the equipment productivity on construction projects. Students will also study operating and ownership costs.

**TECH 332 CNC Part Programming (3)****Spring:** All Years

An introduction to computer numerical control (CNC) equipment and programming. Applications in industry and lab experiences with CNC machines and applications software included in lab.

**Prerequisite:** TECH 230**TECH 334 Material Science (3)****Fall:** Demand

A study of structure, mechanical, thermal, electrical and chemical properties of materials used in the production of manufactured products.

**TECH 346 Industrial Distribution Operations (3)****Spring:** All Years

A study of industrial distribution through an examination of system components, functions, and actual practices at a multi-branch distribution company. Resource management, production planning, procurement, wholesaling, channel management, inventory control, professional selling and the rationale of selection of common discounts and value-added functions will be examined. **Prerequisite:** MKTG 315

**TECH 356 Multimedia Authoring and Development (3)****Fall:** All Years

This course examines the layers, facets, and the concepts of multimedia. A look at the workings of multimedia in the fields of education and training, medicine, architecture, graphic and corporate communications, and entertainment. Not open for undergraduate mass communications credit.

**Prerequisite:** TECH 257**TECH 358 Web Authoring and Development (3)****Fall:** All Years

A continued study in multimedia as it applies to the Internet. Focus is on the development of advanced web presentations for business and organizations, including Scripting, Interactivity, Networks, HTML and VRML.

**Prerequisite:** CSIS 101, TECH 257, TECH 356

**TECH 373 Industrial Circuits (3)****Fall:** Demand

Content of this course includes a study of motors, generators, motor controllers, manual and mechanical control devices, electronic control devices and circuits, and measurement transducers.

**Prerequisite:** TECH 273**TECH 374 Automation Systems (3)****Fall:** Demand

This course is devoted to the technology used to implement industrial automation. Course content includes a study of electronic control systems, types of controllers, robotics, automated materials handling, machine-vision systems, bar-code scanners, and automation techniques. **Prerequisite:** TECH 373

**TECH 376 Industrial Process Control (3)****Spring:** All Years

A survey of the application of technology to industrial automation including the use of components and systems for material handling and process control. The class will include laboratory experiments using industrial devices and software. Field trips and guest lecturers will be utilized to provide exposure to real-life applications of the material covered in the class room and laboratory.

**Prerequisite:** TECH 274, TECH 230, TECH 285**TECH 380 Methods Improvement (3)****Fall:** All Years **Spring:** All Years

Study and analysis of productive and non-productive work elements for the purpose of productivity improvements and establishing time standards.

**TECH 382 Manufacturing Automation (3)****Fall:** Demand

An overview of automation in industry including robotics, CNC, and systems. Lab experiences with robotics and CNC programming and operation.

**TECH 383 Cost Analysis (3)****Spring:** All Years

The objectives of the course are to analyze cost behavior and to develop and interpret financial information at the process, project, and organization levels for purposes of management decision making.

**Prerequisite:** TECH 380, TECH 382**TECH 385 Process Leadership (3)****Fall:** All Years **Spring:** All Years

Development of project leadership with emphasis on team building, leadership, problem solving, negotiation, entrepreneurship, and resource planning. Case studies, class discussion, written assignments, and oral presentations are utilized in instructional delivery.

**TECH 390 Topics in Technology (1-3)****Fall:** Demand **Spring:** Demand

Topical study of a particular technology problem, subject, or situation not typically offered in the regular curriculum. May be repeated for credit if the course title changes.

**TECH 394 Computer Applications for Engineers and Technologists (3)****Fall:** All Years **Spring:** All Years

The stand alone and integrated application of computer software tools such as spreadsheets, word processors, database management systems, graphics and other productivity software to problem solving contexts specific to the disciplines of Engineering and Technology. **Prerequisite:** CSIS 103

**TECH 412 Senior Project (2-3)****Fall:** All Years **Spring:** All Years

Individualized project which will integrate the coursework concepts of the core program in a research/application activity. Not open to Graphic Communications majors.

**TECH 416 Advanced 3D Animation (3)****Fall:** All Years

Continued study in 3D Animated Graphic Application. Students will use either Mac, SGI, or Window platforms. Study includes application of sound and video to be incorporated into projects. **Prerequisite:** TECH 316, CSIS 150, MUS 381

**TECH 422 Construction Law and Contracting (3)****Spring:** All Years

An in-depth review of contracts, specifications, and other construction documents from a contractor's perspective. Other issues will be discussed including labor laws, unions, and the rights and responsibilities of all contracting parties strictly related to the construction industry.

**TECH 423 Construction Estimating II (3)****Spring:** All Years

A study of computer estimating applied to pricing of materials, labor, equipment and overhead in commercial construction projects. "Timberline" estimating software is utilized extensively as a basis for learning principles of computerized estimating. Job cost accounting procedures are emphasized. **Prerequisite:** TECH 325

**TECH 424 Soil Mechanics (3)****Fall:** All Years

A study of soil compaction applications, foundation techniques, and concepts of soil mechanics.

**TECH 426 Construction Project Control (3)****Spring:** All Years

The course topics will include cash flow forecasting, resource leveling, resource allocation, schedule updating, short-interval scheduling, earned value, and linear scheduling techniques. "Primavera" scheduling software is utilized when completing class projects.

**Prerequisite:** TECH 328

**TECH 427 Construction Project Administration (3)****Fall:** All Years

Students will be exposed to the daily construction administrative procedures and responsibilities which occur when managing a construction project. Reporting procedures will be emphasized, along with job site and home-office documentation. **Prerequisite:** TECH 325, TECH 328

**TECH 428 Project Management (3)****Fall:** All Years **Spring:** All Years

The primary goal of Project Management is to manage projects so that they are completed on time, within budget, and in accordance with contract documents. This course develops and discusses techniques that will assist students in successful project management practices. Junior standing is required.

**TECH 438 Technology Education Foundations and Curriculum Design (3)****Fall:** Demand

Development of technology education curriculum materials based on a study of the philosophy and history of the field combined with current trends and national curriculum studies.

**TECH 439 Technology Education Teaching Methods (3)****Fall:** Demand

Presentation and application of concepts and principles that apply to teaching technology education courses. Includes organization and management of facilities, teaching techniques and media for laboratory oriented curriculum.

**TECH 446 Industrial Distribution Quality Programs (1)****Fall:** Demand

The course will cover the application of global standards (ISO9000) for quality and quality management including concepts and quality tools. Emphasis will be on ISO9003, other trends, advanced quality practices applied to distributors, and partnering.

**Prerequisite:** TECH 482**TECH 452 Graphic Communications Estimating (3)****Spring:** Odd years

A study of basic principles and theories of graphic communications estimating. Computer based estimating programs and traditional estimating methods are studied. **Prerequisite:** TECH 252

**TECH 456 Advanced Multimedia/Web Authoring and Development (3)****Spring:** All Years

Continued practical study of Advanced Multimedia and WEB Applications. Emphasis is on production processes, CD ROM, manufacturing, and WEB servers. Advanced study of Macromedia Lingo and Javascript.

**Prerequisite:** TECH 356, TECH 358, MUS 381, **OR** consent of instructor**TECH 459 Graphic Communications Final Project (6)****Fall:** Demand **Spring:** Demand

Capstone experience for Graphic Communications students. Culminating final project focusing on skills and knowledge ascertained from previous semesters.

**Prerequisite:** 53 credits of Graphic Communications major**TECH 469 Student Internship (2-12)****Fall:** All Years **Spring:** All Years

Available to all majors enrolled in the Department of Technology. Approved practical work experience. Supervised by departmental faculty. Maximum of 12 credits applied to graduation.

**TECH 481 Facilities Management (3)****Fall:** Demand

A study of management techniques for maintenance, repair, and improvements for buildings, mechanical systems, energy management, machinery, and grounds. Emphasis is placed on predictive maintenance and strategies used for monitoring critical process equipment, predicting machine failure, and scheduling maintenance accordingly. **Prerequisite:** TECH 230, TECH 373

**TECH 482 Quality Planning and Implementation (3)****Fall:** All Years **Spring:** All Years

Focusing on expanded managerial philosophies and techniques of quality control including the comprehensive treatment of quality management and control issues. This course provides practical applications of management theory by balancing managerial and technical material.

**TECH 483 Facility Design (3)****Spring:** All Years

A study of facilities, locations, structure and planning for efficient layout and material handling systems.

**Prerequisite:** TECH 380**TECH 485 Production and Inventory Management (3)****Spring:** All Years

Study and analysis of systems and methods for planning and control of manufacturing resources. The framework of this course is based on the guidelines provided by the American Production and Inventory Control Society.

Main topics include master planning, inventory management, material and capacity requirements planning, production activity control, and Just-In-Time.

**Prerequisite:** TECH 380**TECH 490 Special Problems (1-4)****Fall:** Demand **Spring:** Demand

Individual study not offered in depth in the regular curriculum. Maximum of 4 credits applied to graduation.

**TECH 493 Occupational Safety and Health (3)****Fall:** All Years **Spring:** All Years

Designed for students to develop an understanding of basic occupational safety and health terminology, principles, and practices. Course content covers both industrial and construction settings and reflects current occupational standards. Students will be exposed to the development of a safety program and will do a safety site visit off-campus.

**TECH 496 Construction Management Capstone Project (3)****Fall:** All Years **Spring:** All Years

Individualized project which will integrate the coursework concepts of the core program in a research/application activity. In addition, all Construction Management majors are required to sit for the Certified Professional Constructor examination (CPC) as part of the course requirement. No final grade will be issued for the course until the student provides documented exam results to the instructor. **Prerequisite:** Senior standing

**Women's Studies****WS 247 [D1] Women's Studies (3)****Fall:** All Years **Spring:** All Years

Interdisciplinary perspectives on women from biology, humanities, the arts and the social sciences. Core class for Women's Studies Minor Program.

**WS 412 Seminar in Women's Studies (3-4)**

Study of selected problems in Women's Studies through the humanities, employing the objectives of interdisciplinary humanities and multicultural studies. Specific topics will be announced in class schedule. Students may register more than once when content varies. Recommended for Women's Studies Minors as substitute for Humanities 410.

# Administration

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### Affirmative Action Officer

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#### Associate Vice President for Academic Affairs

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#### College of Arts and Humanities

Phone: 236-2764 Bridges Hall 250

#### College of Business and Industry

Phone: 236-4654 Center for Business 100B

#### College of Education and Human Services

Phone: 236-2096 Lommen Hall 214A

#### College of Social and Natural Sciences

Phone: 299-5892 Bridges Hall 150

#### Dean of Academic Services

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#### Director of Admissions

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#### Registrar

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### ADMINISTRATIVE AFFAIRS

#### Vice President for Administrative Affairs

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#### Building Services Manager

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#### Science Center Maintenance

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#### Director of Computer Center

Phone: 236-2300 Library 201A

#### Business Manager/Comptroller

Phone: 236-2062 Owens Hall 106

#### Human Resources Director

Phone: 236-2066 Owens Hall 210C

#### Bookstore Manager

Phone: 236-2111 MacLean Hall 176

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#### Parking/Keys Coordinator

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Phone: 236-2524 Comstock Union 230

### Assistant Director, Student Development and

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### Director of International Programs and Services

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### Director of Counseling

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### Director of Scholarship and Financial Aid

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### Director of Health Services

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### Director of Housing

Phone: 236-2118 Ballard Hall

### Director of Career Services

Phone: 236-2131 Comstock Union 114

### Coordinator of Disability Services

Phone: 299-5859 Comstock Union 222

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**Fike Zahroon** Professor Emeritus

## A

Academic Change of Requirements 32  
 Academic Forgiveness Policy 42  
 Academic Honors 43  
 Academic Standing 41  
 Academic Suspension 42  
 Academic Year 32  
 Access to Information 2  
 Accounting  
     Curricula 47  
     Courses 135  
 Accreditation 1  
 Activities  
     Athletics 15  
     Other fee Funded 15  
     Music 15  
     Speech-Theatre 15  
 Actuary Science *See Mathematics*  
 Administration 238  
 Admission  
     Admissions (Office of) 18  
     Continuing Studies 8  
     Early Enrollment Option 22  
     Freshman Admission 18  
     International (Temporary Resident) Admissions 22  
     International Students 21, 22  
     New Center for Multidisciplinary Studies (Admission to) 18  
     Non-Traditional Students 20  
     Permanent Resident Admission 21  
     Post-Secondary Enrollment Options Program for High School Students 22  
     Readmission 21  
     Special Students 20  
     Transfer Admission 19  
     Undergraduate Special Students 20  
 Advertising *See Mass Communications*  
 Advising 36  
 Advisor Assignment and Changes 36  
 Agriculture  
     Curricula 48  
 Alcohol/Drug Awareness Program 12  
 Alumni Foundation 13  
 American Studies  
     Curricula 48  
     Courses 136  
 Anthropology  
     Curricula 49  
     Courses 137  
 Appeal of Academic Policies 46  
 Archeology *See Anthropology*  
 Architecture  
     Curricula 50  
 Armed Service Credits 37  
 Art  
     Curricula 51  
     Courses 139  
 Asian Studies *See Languages*

Associate Degree 37  
 Astronomy  
     Curricula *See Physics-Astronomy*  
     Courses 146  
 Athletic Training  
     Curricula 54  
     Courses 146  
 Athletics 15  
     Department 55  
     Intramural 15  
     Men's Intercollegiate 15  
     Women's Intercollegiate 15  
 Audiovisual and Television Services 12  
 Auditing Courses 41  
 AV Center *See Audiovisual and Television Services*

## B

Baccalaureate Degrees 4  
 Background Checks 43  
 Biology  
     Curricula 55  
     Courses 147  
 Bookstore 11  
 Business  
     Courses 150  
 Business Administration  
     Curricula 59  
 Business Studies 4

## C

Campus 3  
 Campus Security 10  
 Career Services 13  
 Center for the Arts *See Roland Dille Center for the Arts*  
 Change of Program — Adding or Dropping Courses 45  
 Chemistry  
     Curricula 62  
     Courses 150  
 Chinese  
     Curricula *See Languages*  
     Courses 152  
 Classics  
     Curricula 65  
 Classification of Students 43  
 Common Market (State University) 6  
 Communications  
     Curricula 65  
 Community 3  
 Comprehensive Student Fee 24  
 Computer Science and Information Systems  
     Curricula 65  
     Courses 153  
 Comstock Memorial Union 10, 15  
 Confidential Records  
     Family Educational Rights and Privacy Act 46  
 Continuing Studies 8

Construction Management *See Technology*  
 Counseling and Personal Growth Center 12  
 Counseling and Student Affairs  
   Courses 156  
 Courses  
   Adding or Dropping (Change of Program) 45  
   Auditing 41  
   Pass-Fail 40  
   Pass-No Credit 40  
   Repeating 41  
 Covered Degree Programs 5  
   Available to MSU Students at NDSU 5  
   Available to NDSU Students at MSU 5  
 Credit  
   (Unit of) 32  
   by CLEP Examination 39  
   by Departmental Examination 39  
   by International Baccalaureate 39  
   Excess Credit 44  
   for Prior Learning 40  
   Pass-No Credit 40  
 Credits  
   Armed Service 37  
   Incomplete 41  
   Resident 37  
   Transfer of 38  
 Criminal Justice  
   Curricula 67  
   Courses 156  
 Cytotechnology  
   Curricula *See Biology*

**D**  
 Dining (and Housing) Contracts 27  
 Dining Facilities 10  
 Disability Services 12  
 Dormitories *See Residence Halls*  
 Dual Degree Programs with University of Minnesota 5

**E**  
 Early Childhood Education  
   Curricula *See Elementary and Early Childhood Education*  
 Early Education Center 13  
 Earth Sciences *See Anthropology*  
 East Asian Studies *See Languages*  
 Economics  
   Curricula 69  
   Courses 156  
 Education  
   Courses 157  
 Elementary and Early Childhood Education  
   Curricula 70  
   Courses 159  
 Elementary or Secondary Teaching 6

Emeriti 251  
 Engineering  
   Curricula 73  
   Courses 163  
 English  
   Curricula 74  
   Courses 163  
 English as a Second Language (ESL)  
   Curricula *See English*  
 Enrollment and Retention (Student) 3  
 Evening Course Registration 44  
 Excess Credit 44

**F**

Faculty 3, 239  
 Family Educational Rights and Privacy Act 46  
 Fees *See University Expenses*  
 Finance  
   Curricula *See Business*  
   Courses 167  
 Financial Aid 27  
   Aid Awards and Renewals 28  
   Application for Financial Aid 27  
   Enrollment Requirement 28  
   Loan Counseling 30  
   Policy Standards  
     Maintaining Satisfactory Progress Standards 30  
     Minnesota Grant Eligibility 30  
     Not Meeting Minimum Standards 30  
     Repeated Courses 30  
     Satisfactory Academic Progress 30  
     Withdrawals 30  
   Summer Financial Aid 28  
   Types of Financial Aid 28  
   Campus Employment 29  
   Childcare Grant Program 29  
   College Work Program (Federal and Minnesota) 29  
   Federal Direct Student Loans 29  
   Federal Pell Grant 28  
   Federal Perkins Loan 29  
   Federal Supplemental Educational Opportunity Grant 28  
   International Student Assistance 29  
   Minnesota State Grant 28  
   Minnesota Student Educational Loan Fund (SELF) 29  
   Parent Loans for Undergraduate Students (PLUS) 29  
   Scholarships 30  
   Short Term Loans 29  
     Emergency Loans 29  
     Term Bill Loans 29  
 Fine Arts (Bachelor of) 4  
 First-Year Experience (FYE) 36  
   Courses 168  
 Foundation *See Alumni Foundation*  
 Four-Year Graduation Guarantee 33

- French  
 Curricula *See Languages*  
 Courses 168
- Freshman Admission 18  
 Freshman Admission Requirements 18  
 Freshman Application Procedures 18  
 Freshman Year Requirements 35
- G**
- Geography  
 Curricula *See Anthropology*  
 Geography Courses 169
- Geology  
 Geology Courses 169
- Gerontology  
 Curricula 77
- Grade Point Average 41
- Grades (Pass-No Credit) 40
- Grades and Grade Points 41
- Graduate Studies 6
- Graduation Guarantee (Four Year) 33
- Graduation Requirements 32  
 (Bachelor's Degree) 32
- Grants *See Financial Aid*
- Graphic Communications  
 Curricula *See Technology*
- H**
- Health  
 Curricula 79  
 Courses 170
- Health Service and Insurance 17
- History  
 Curricula 81  
 Courses 172
- History of Moorhead State University 3
- Honors (Academic) 43
- Honors Program  
 Curricula 82  
 Courses 174
- Housing  
 and Dining Contracts 27  
 and Resident Life 10  
 Policies 17
- Humanities  
 Curricula 83  
 Courses 175
- I**
- Immunization Requirements 17
- Incomplete Credits 41
- Individualized Major 7, 37
- Industrial Distribution  
 Curricula *See Technology*
- Industrial Management  
 Curricula *See Technology*
- Intercollegiate Athletics 15
- International Baccalaureate 39
- International Business  
 Curricula *See Business*
- International Students 21  
 Academic Standards 21  
 Admissions (Temporary Resident) 22  
 English Proficiency 21  
 Financial Support 21, 29  
 Freshmen Students 21  
 Mandatory Health Insurance 22  
 Student Assistance 29  
 Student Exchange Program 9  
 Transfer International Students 21
- International Study Opportunities 9  
 Akita 9  
 Eurospring 9  
 Global Campus 9  
 International Internships 9  
 ISEP 9  
 Kanda and Kaygao Gakiun 9  
 Keele 9  
 Lincoln 9  
 Nankai 9  
 Oxford Program 9  
 Portsmouth 9  
 Student Teaching Abroad 9
- Internships 8  
 International 9  
 Policies 43
- Intramural Athletics 15
- J**
- Japanese  
 Curricula *See Languages*  
 Courses 176
- Journalism  
 Curricula *See Mass Communications*



**L**

- Languages
  - Curricula 83
  - Courses 177
- Latin
  - Curricula *See Classics*
  - Courses 177
- Legal Assistant
  - Curricula *See Paralegal*
- Liberal Arts and Professional Majors 4
- Liberal Studies 33
  - Courses 178
- Library *See Livingston Lord Library*
- Licensure in Special Fields 6
- Life Science (Teaching)
  - Curricula *See Biology*
- Livingston Lord Library 11
- Loan Counseling *See Financial Aid*
- Loans *See Financial Aid*

**M**

- Management
  - Curricula *See Business*
  - Courses 178
- Management Information Systems
  - Curricula 88
- Marketing
  - Curricula *See Business*
  - Courses 179
- Mass Communications
  - Curricula 89
  - Courses 180
- Mathematics
  - Curricula 92
  - Courses 184
- Medical Technology
  - Curricula *See Biology*
- Men's Intercollegiate Athletics 15
- Midwest Student Exchange Program 25
- Military
  - Armed Service Credits 37
  - Military Withdrawal 45
- Minnesota-Manitoba Reciprocity 25
- Minnesota Transfer Curriculum 35, 38
- Minors Through Exchange 37
- Mission 3
- Multicultural Studies
  - Curricula 94
  - Courses 187
- Multidisciplinary Studies
  - Curricula 95
  - Courses 188
- Music
  - Performance Activities 15
  - Curricula 96
  - Courses 191

**N**

- National Student Exchange 8
- New Center for Multidisciplinary Studies 7, 18
- Non-Resident (and Resident) Tuition Status 24
- Non-Traditional Students 20
- Nursing
  - Curricula 103
  - Courses 200

**O**

- Off-Campus Registration 44
- Office of Admissions 18

**P**

- Parking and Traffic Regulations 17
- Pass-Fail Courses 40
- Pass-No Credit Grades 40
- Payment
  - of Tuition and Fees 25
  - Late 44
- Permanent Resident Admissions 21
- Paralegal
  - Curricula 104
  - Courses 202
- Peer Advisor Program 15
- Personal Development
  - Courses 203
- Pharmacy
  - Curricula 105
- Philosophy
  - Curricula 106
  - Courses 204
- Physical Education
  - Curricula 107
  - Courses 206
- Physical Science (Teaching)
  - Curricula *See Chemistry*
- Physics and Astronomy
  - Curricula 110
  - Physics Courses 211
  - Astronomy Courses 146
- Placement (Advanced) 39
- Planetarium 11
- Political Science
  - Curricula 112
  - Courses 213
- Post-Secondary Enrollment Options Program for High School
  - Students 22
- Pre-Professional Studies 5
- Psychology
  - Curricula 113
  - Courses 215
- Public Relations
  - Curricula *See Mass Communications*

**R**

- Readmission 21
- Reciprocal Tuition Agreements 25
- Reciprocity, Minnesota-Manitoba 25
- Recreation
  - Courses 217
- Refund of Payments Due to Withdrawal 26
- Regional Science Center 11
- Registration
  - Evening Course Registration 44
  - Off-Campus Registration 44
  - Procedures 44
  - Reinstatement 26
  - Tri-College University 44
- Repeating Courses 30
- Reserve Officers Training Corps (ROTC) 7
- Residence Halls 10
- Resident and Non-Resident Tuition Status 24
- Resident Credits 37
- Roland Dille Center for the Arts 12, 15

**S**

- Scholarships 28
  - Funds 30
    - Athletic Talent Grants 31
    - Excellence Award 31
    - Honors Apprenticeship Scholarship 30
    - Minority Scholars Program 31
    - Minority Scholarships 31
    - MSU Scholarship Program 30
    - National Merit Finalist Scholarship 26
    - Presidential Scholarship 30
    - ROTC Scholarships 30
    - Second Start Freshman Scholarship 30
    - Special Talent Freshman Scholarship 30
    - Transfer Scholarships 30
    - Upperclass Academic Scholarships 30
  - Information Computer Program 30
- Science
  - Facilities 11
  - Curricula 114
  - Courses 217
- Secondary and Kindergarten—Grade 12 Education
  - Curricula 114
- Security, Campus 10
- Social Studies
  - Curricula 115
- Social Work
  - Curricula 118
  - Courses 218
- Sociology
  - Curricula 119
  - Courses 219
- Spanish

- Curricula *See Languages*
- Courses 222
- Special Education
  - Curricula 120
  - Courses 224
- Special Students 20
- Speech Communication and Theatre Arts
  - Curricula 122
  - Speech Courses 227
- Speech/Language/Hearing Clinic 13
- Speech/Language/Hearing Science
  - Curricula 126
  - Courses 231
- Speech-Theatre Activities 15
- State University Common Market 6
- Student
  - Activities and Organizations 15
  - Affairs 15
  - Enrollment and Retention 3
  - Organizations 16
    - Cultural 16
    - Departmental 16
    - Greek Life 16
    - Honorary 16
    - Political 16
    - Publications 16
    - Religious 16
    - Residence Halls 16
    - Service 16
    - Special Interest 16
    - Sports and Recreation 17
    - Student Government 17
  - Senate 15
  - Union *See Comstock Memorial Union*
  - Suspension (Academic) 42
- T**
  - Teacher Education
    - Curricula 128
  - Teacher License Programs 6
  - Teacher Preparation 4
  - Teaching
    - Elementary or Secondary 6
    - Majors and Minors 37
  - Technology
    - Curricula 129
    - Courses 232
  - Theatre
    - Curricula *See Speech Communication*
  - Transfer Admission 19
  - Transfer Curriculum (Minnesota) 35
    - Two Year Colleges 38
  - Transfer of Credits 38
  - Tri-College University 7
  - Tri-College University Registration 44
  - Tuition Rates (See Also University Expenses) 24
  - Two-Year Associate Degree 5

**U**

- Undergraduate Special Students 20
- Units of Credit 32
- University Expenses 24
  - Comprehensive Student Fee 24
  - Housing and Meals 24
  - Tuition 24
    - Midwest Student Exchange Program 25
    - Payment of 25
    - Refund Due to Withdrawal 26
  - Tuition Rates 24
    - Reciprocal Agreements 25
    - Minnesota-Manitoba Reciprocity 25
    - Resident and Non-Resident Status 24
- University Studies 7
  - Curricula 134

**V**

- Veterans Office 13

**W**

- Withdrawal
  - from Enrollment 45
  - Military 45
  - Refund of Payments 26
- Withdrawals and Repeated Courses 30
- Women's Intercollegiate Athletics 15
- Women's Center 14
- Women's Studies
  - Curricula 134
  - Courses 237
- Write Site 12